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Director of Facilities, Maintenance & Transportation Anthony Busin

Hendry County School District Invitation to Bid for Roofing Replacement at Clewiston Youth Development Academy

Mr. Tony Busin Director of Operations Hendry County Schools <u>busina@hendry-schools.net</u>

To all interested Parties:

You are hereby invited by the Hendry County School Board to respond to the following: ITB 24-00025 Roofing Replacement for the Clewiston Youth Development Academy Project located at 315 N. San Pedro Street, Clewiston, Florida 33440.

This document is intended to provide specific information regarding the solicitation. Information specific to this solicitation can be provided by Mr. Tony Busin at busina@hendry-schools.net.

| Event Details | ITB Issue Date: Thursday, December 21, 2023. Questions about the ITB due no later than: Wednesday, January 10, 2024 by 3:00 p.m. EST. Bids Due: Tuesday., January 16, 2024 by 3:00 p.m. EST. A Public Bid Opening will be on Wednesday, January 17, 2024 at 10:00 a.m. EST at the Purchasing Dept. 111 Curry Street, LaBelle, FL 33935. |
|------------------|--|
| Questions | Questions shall be addressed to Mr. Tony Busin, Director of Operations at busina@hendry-schools.net. |

| Attachments | Vendor(s) must read all attachments and return applicable documents with their submittal. |
|--------------------------|--|
| Line Items | Vendors(s) will provide pricing, discounts and any other information requested. |
| Response Submission | Vendors are required to submit the following documents, complete in their entirety. 1. Company name and length of time in business. 2. Company location and the ability to service the Hendry County area (Clewiston). 3. Business Licensure with the State of Florida (can provide copy of Sunbiz web page) 4. Minimum of three (3) client references. 5. Completed and signed Proposal Submittal Form. 6. Completed and signed Detailed Price Proposal Form. 7. Addenda(s) signed and dated if issued. 8. Insurance Requirements Form (attachment A) 9. Debarment Form (attachment B) 10. Drug Free Workplace Form (attachment C) 11. Public Entities Crime Form (attachment D) 12. Scrutinized Company Certification (attachment E) |
| Response Instructions | Vendors shall submit four (4) hard copies of their proposals and one electronic copy on USB flash drive via mail to: DO NOT SEND ANY BID RESPONSES TO THIS ADDRESS PRIOR TO 1/8/24 DUE TO FINANCE DEPARTMENT BEING CLOSED FOR WINTER BREAK. Hendry County School District Finance Department Attn: Lynn Willis 111 Curry Street LaBelle, Florida 33935 |

It is the responsibility of the vendor(s) to ensure all information is reviewed and completed prior to submitting a Bid.

VENDOR REGISTRATION: All Vendors are required to submit a vendor application and a current W-9 via the following link:

https://www.hendryschools.org/departments/finance/purchasing-dept/vendor-application

New E-Verify requirements

- A. As of January 1, 2021, pursuant to Section 448.095, Florida Statutes, Firms shall register with and use the U.S. Department of Homeland Security's E-Verify system to verify the work authorization status of all employees hired during the term of this Agreement and must, upon request, provide evidence of compliance with this provision.
- B. Subcontractors
 - 1. As of January 1, 2021, Firms shall also require all subcontractors performing work under this Agreement to use the E-Verify system for any employees they may hire during the term of this Agreement.
 - 2. Subcontractors shall provide firm with an affidavit stating the subcontractor does not employ, contract with, or subcontract with an unauthorized alien, as stated in Section 448.095, Florida Statutes.
 - 3. Firms shall provide a copy of such affidavit to the School Board upon receipt and shall maintain a copy for the duration of the Agreement.

Failure to comply with this provision is a material breach of the Agreement and the School Board may choose to terminate this Agreement at its sole discretion. Firm may be liable for all costs associated with the School Board securing the same Services, inclusive, but not limited to, higher costs for the same services.

C. It is the responsibility of the vendor to insure compliance with E-Verify requirements (as applicable). To enroll in E-Verify, employers should visit the E-Verify website http://www.uscis.gov/e-verify and follow the instructions. The employer must retain the I-9 forms for inspection.

Davis-Bacon Act, as Amended (40 U.S.C. 276a to A-7):

Vendor, certifies that it is, and will continue for the term of this contract, to be in compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Pat 5, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, the Vendor is herein required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, Vendor agrees to pay wages not less than once a week. The Vendor must provide a copy of the current prevailing wage determination issued by the Secretary of Labor in each solicitation. Vendor acknowledges that the decision to award this contract or subcontract is conditioned upon the acceptance of the wage determination which the Vendor accepts. The Vendor agrees to report all suspected or reported violations to the Federal awarding agency and to notify the District concurrently. The Vendor certifies that it is, and will continue to be, for the term of this contract in full compliance with the Copeland "Anti-Kickback" Act (40 U.S.C.

3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Vendors and Subcontractors on Public Building or Public Work financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each Vendor or sub recipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333)

Vendor, certifies that it is, and will continue for the term of the contract, to be in compliance with 40 U.S.C 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each Vendor must be required to compute the wages of every mechanic or laborer on the basis of a standard work week of 40 hours. Work in access of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and half times the basic rate of pay for all hours worked in access of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to constructions work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

Health and Safety Standards in Building Trades and Construction Industry (40 U.S.C. 3704).

No laborer or mechanic must be required to work in surroundings or under work conditions which are unsanitary, hazardous, or dangerous.

The following instructions have been developed specifically for this ITB and may or may not be the same as previous or future solicitations for this type of service or commodity. This document, and any Addenda issued, will serve as the contract between the District (hereafter "District", "Owner", or "Board") and the awarded vendor (hereafter "Bidder", "Contractor", or "Vendor"). No separate document will be negotiated or executed. The District reserves the right to deem conditional bids (i.e., counter-bids on specific terms and conditions) nonresponsive; any such bids will not be considered.

Section 1:

SCOPE OF SERVICES: The Hendry County School District is soliciting an Invitation to Bid (ITB) from qualified companies to complete a Roofing Replacement at the Clewiston Youth Development Academy located at 315 N. San Pedro Street, Clewiston, Florida. Complete construction specifications for this project are attached to this ITB. The submitted Bid must include a guaranteed price, pending any approved change orders, of the specified renovation project and also a guaranteed start and completion time for the project.

Section II:

ITB PROCESS: Bids shall be reviewed and evaluated based on the criteria set forth in this ITB. The committee will consist of three (3) representatives from the District's Maintenance Services Department. Scoring will be ranked using a rating scale from 10 to 1. The three (3) evaluators will score based on their individual understanding of the Bid meeting the ITB criteria and District needs. The final score will be the average of the three (3) committee members' individual scoring.

RATING SCALE:

- 10 Excellent/Above Average
- 5 Average/Acceptable
- 3 Below Average
- 1 Unsatisfactory/Unacceptable

ITB EVALUATION CRITERIA: The Bid must include information documenting how the company meets the evaluation criteria outlined below. Evaluations will be based on these criteria with assigned weighting as indicated. Each company's Bid must include a Table of Contents and should be organized by specific sections corresponding to the criteria and in the order shown below.

| ITB CRITERIA | EVALUATION | MAXIMUM SCORE |
|---|---|---------------|
| 1. Pricing | Lowest, economical pricing while still maintaining quality of product. | 10 |
| 2. Technical Qualifications | Describe the organizational structure of the entity responsible for the project. | 10 |
| 3. Capability of Performing the Work. | Describe the company's capabilities to complete the project in a timely manner. | 10 |
| 4. Experience | Provide a list and description of three (3) completed commercial site projects. | 10 |
| 5. Budget and Schedule | Provide examples of how your team has achieved a high level of quality on projects with challenging budgets and/or schedules. Projects described in this criterion may be in addition to those listed in item 3. | 10 |
| 6. Business Location | Supply the company location and the ability to complete the described project located in Clewiston, Florida. | 10 |
| 7. References | Provide the name, title and phone number for three (3) client reference contacts. | 10 |
| Points | Total Potential Points Based on Rating Scale | 70 |

REFERENCES: The District School Board of Hendry County reserves the right to conduct reference checks for firms at any stage of the selection process. In the event that information obtained from the reference checks reveals concerns about the firm's past performance or its ability to successfully perform the contract to be executed based on this ITB, the District may, at its sole discretion, determine that the firm is not qualified to perform the contract and deem the firm not eligible for further consideration. The District also reserves the right to check references from others not identified by the firm.

The Hendry County School District will furnish power to the contracting firm while work is being completed.

Contractor will provide all warranty information regarding materials and workmanship in their proposals to the Hendry County School District.

Subcontracting. Contractor shall not enter into any subcontracts for any of the work required by this Bid, or assign or transfer any of its interest in this Bid, without The Board's written consent. In addition to any other provisions The Board may require, Contractor shall include in any permitted subcontracts under this Bid a requirement that the subcontractor be bound by this Bid as if subcontractor were Contractor. The Board's consent to any subcontract under this Bid shall not relieve Contractor of any of its duties or obligations under this Bid. Moreover, approval by The Board of a subcontract shall not result in any obligations or liabilities to the District in addition to those set forth in this Bid, including, without limitation, the agreed rates of payment and total consideration. Contractor shall be solely responsible for any and all obligations owing to the subcontractors.

Performance and Payment Bonds (Required)

A. For Projects Costing Less than \$200,000.

In order to encourage participation in construction, remodeling, and renovation projects by small, woman-owned, and minority-owned businesses, no bid security or performance or payment bond shall be required for bids in an amount less than \$200,000, unless it is determined necessary by the Superintendent. If bonds are required, the information will be specified in the project documentation and the provisions of subjection B below will apply.

B. For Projects Costing \$200,000 or Greater

Bonds may be required as specified in the bids for construction, remodeling, and renovation of District facilities. Bids must be accompanied by a Bid Security meeting the following requirements for Bids \$200,000 or greater:

- 1. Bid security shall be a certified check, cashier's check, Treasurer's check, bank draft, or Bid Bond acceptable to the Board in a form and manner that is acceptable to the Board.
- 2. Should the accepted Bidder refuse to enter into the contract or fail to furnish Performance, Materials and Payment bonds, the amount of the Bid security may be forfeited to the District.

The accepted Bidder must deliver Performance and Payment bonds equal to the contract price, no later than the date of execution of the contract or the first request for payment under the contract, whichever is first. Bonds must be issued by Surety companies admitted to do business in the State of Florida and listed in the Federal Register of the U.S. Department of Treasury for Surety Companies Acceptable on Federal Bonds.

Certified Copy of Recorded Bond

Before commencing the work or before recommencing the work after a default or abandonment, the Contractor shall provide to the Board, if required, a certified copy of the recorded Bond. Notwithstanding the terms of the contract or any other law governing prompt payment for construction services, the Board may not make a payment to the Contractor until the Contractor has complied with this paragraph.

A Bid proposal will be considered a firm offer and cannot be withdrawn succeeding the Bid opening without the consent of the The Board for a period of sixty (60) days. The Board also reserves the right to secure expert advice in evaluating and selecting the lowest responsive and reasonable Bid proposal.

Bid proposals must be submitted on the attached forms, enclosed in a sealed envelope and returned to the Purchasing Department no later than the due date listed in the Event Details listed above. All Bid proposals received after the designated cut off time will not be considered and returned unopened.

Any Addenda issued subsequent to the release of this solicitation must be signed and returned with the respondent's Bid.

Reservations: The Hendry County School Board reserves the right to reject any and all Bids, to negotiate changes in the new scope of work or services to be provided, and to otherwise waive any technicalities or informalities.

The Hendry County School District reserves the right to terminate any contract resulting from this Invitation to Bid upon thirty (30) days written notice.

Right of Protest: Failure to file a protest within the time prescribed in Florida Statutes, Section 120.53 (5), shall constitute a waiver of proceedings under Chapter 120, Florida Statutes. It is the responsibility of the vendor(s) to ensure all information is reviewed and completed prior to submitting a response.

The District reserves the right to waive minor informalities in any Bid to accept any Bid which they consider to be in the best public interest, and to reject any part of, or any and all Bids. Failure to read or comply with the terms and conditions in no way relieves vendor(s) from their liabilities arising hereunder. Solicitations cannot be withdrawn prior to Board approval without a valid written explanation from the proposer and written consent of the Director of Operations.

NO PHONE CALLS PLEASE. Requests for information shall be in writing only – refer all written requests to Mr. Tony Busin at busina@hendry-schools.net.

Respectfully,

Mr. Tony Busin Director of Operations

ITB 24-00025 ROOFING REPLACEMENT CLEWISTON YOUTH DEVELOPMENT ACADEMY BID SUBMITTAL FORM

Bids received timely will be opened, tabulated and evaluated in the Hendry County School District's Purchasing Department. An Intention to Award document will be posted at www.hendry-schools.org prior to the Hendry County School Board's scheduled meeting and if the Bid is awarded during that meeting an Award letter will be sent to the selected vendor.

A Bid proposal will be considered a firm offer and cannot be withdrawn succeeding the Bid opening without the consent of The School Board for a period of sixty (60) days. The School Board also reserves the right to secure expert advice in evaluating and selecting the lowest responsive and reasonable bid proposal.

Bid proposals must be submitted on the attached forms, enclosed in a sealed envelope and returned to the Purchasing Department at the given address in this Invitation to Bid by the date and time listed on the Proposal. All Bid proposals received after the designated cut-off time will not be considered and returned unopened.

I/we hereby certify that I/we have carefully read all instructions pertaining to this Invitation to Bid and that my/our Bid complies, without exception, with all instructions and specifications.

| Company Name | | | |
|-------------------------------------|------|-----------------|-----------------|
| Signed Authorization Representative | | Printed name or | fRepresentative |
| Title of Representative | | Date | |
| Address | City | State | Zip Code |
| Contact Numbers: | | | |
| Email Address: | | | |

Attachment A – Insurance Requirements Form

Hendry County School District

 \underline{X} 1. Workers' Compensation – Statutory Limits of Florida Statutes, Chapter 440 and all Federal Government Statutory Limit and Requirements. Policy must include Employers Liability with a limit of \$500,000 per incident.

 \underline{X} 2. Commercial General Liability – Bodily Injury & Property Damage - \$1,000,000 Single limit per occurrence.

 \underline{X} 3. Indemnification: The Contractor/Vendor, in consideration of One Hundred Dollars (\$100.00), the receipt and sufficiency of which is accepted through the signing of this document, shall hold harmless and defend The Hendry County School District and its agents and employees from all suits and actions, including attorney's fees and all costs of litigation and judgments of any name and description arising out of or incidental to the performance of this contract or work performed there under. This provision shall also pertain to any claims brought against The Hendry County School District by an employee of the named Contractor/Vendor, any

Subcontractor, or anyone directly or indirectly employed by any of them. The

Contractor/Vendor's obligation under this provision shall not be limited in any way by the agreed upon contract price as shown in this Contract or the Contractor/Vendor's limit of, or lack of, sufficient insurance protection. The first One Hundred Dollars (\$100.00) or money received on the contract price is considered as payment of this obligation by The Hendry County School District.

_4. Automobile Insurance – Owned, non-owned, hired - \$1,000,000 Each occurrence.

X 5. Professional Liability \$1,000,000

 \underline{X} 6. Vendor shall insure that any and all subcontractors comply with the same insurance requirements as outlined above.

 \underline{X} 7. The Hendry County School District must be named as Additional Insured on the insurance certificate for all coverages, except Workers' Compensation and Professional Liability.

 \underline{X} 8. The Hendry County School District shall be named as the Certificate Holder to read as follows:

The School District of Hendry County, Florida Financial Services P.O. Box 1980 Labelle, Florida 33975 \underline{X} 9. Thirty (30) days cancellation notice is required.

X 10. The Certificate must state the BID Number and Title. Insurance Requirements Continued

CERTIFICATION:

I/We understand the insurance requirements contained in these specifications, and that the evidence of said insurance is required within five (5) business days of the Notice of Award of the proposal. The Hendry County School District must be named as "ADDITIONAL INSURED" on the Insurance Certificate for Commercial General Liability and the Business Auto Liability policies. The Hendry County School District desires proof of insurability at levels required for this proposal.

A current certificate of insurance is attached: ____ Yes ____ No

Bidder Signature

Bidder Name

Bidder Title

Attachment B – Debarment Form Hendry County School District

This certification is required by the Department of Education regulations implementing Executive Order 12549, Debarment and Suspension, 34 CFR Part 85, for all lower tier transactions meeting the threshold and tier requirements stated at Section 85.110.

1. By signing and submitting this bid/proposal, the prospective lower tier participant is providing the certification set out below.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this bid is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," " person," "primary covered transaction," "principal," "bid," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this bid is

submitted for assistance in obtaining a copy of those regulations.

5. The prospective lower tier participant agrees by submitting this bid that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this bid that it will include the clause titled Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion-Lower Tier Covered Transactions, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may but is not required to, check the No Procurement List.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarrent.

CERTIFICATION: The prospective lower tier participant certifies by submission of this bid/proposal that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by and Federal department or agency. Where the prospective lower tier participant is unable to certify any of the statements in this certification, such prospective participant must attach an explanation.

Bidder Signature:

Bidder Name:

Bidder Title:

Attachment C – Drug Free Workplace

Hendry County School District

The undersigned bidder, in accordance with Florida Statute 287.087, hereby certifies that

does:

(name of business)

- 1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
- 3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in Paragraph 1.
- 4. In the statement specified in Paragraph 1, notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contender to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
- 6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of Paragraphs 1 thru 5.

I certify that this business, named above, complies fully with the above requirements.

Authorized Officer Signature

Date

Name

Title

Attachment D – Public Entities Crime Form SWORN STATEMENT UNDER SECTION 287.133(3)(a), FLORIDA STATUTES, PUBLIC ENTITY CRIMES

Hendry County School District

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

| This sworn | statement is | submitted by | | | | |
|-------------|--------------|-------------------|-----------------|-----------------|-------------------|---------------------------------------|
| (name | of | entity) | who | business | address | is |
| | | | | | and Federal Em | nployer ID |
| · · · | EIN), if app | | | | If the entity has | · · · · · · · · · · · · · · · · · · · |
| you must in | clude the so | cial security nun | nber of the ind | ividual signing | this sworn statem | nent. |
| My name is | ۱ <u> </u> | | | | _ and my relation | ship to the |
| | | | (print | e of individua | l signing) entity | above is |

I understand that a public entity crime, as defined in Florida Statute 287.133(1)(g) means a finding of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a violation of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:

1. A predecessor or successor of a person convicted of a public entity crime; or

2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision

of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies.)

_____ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, not any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

The person HAS ______ or HAS NOT ______ been placed on the convicted contractor list. (Please describe any action taken by or pending with the Department of Management Services concerning removal from the list.)

Authorized Officer Signature

Date

Name

Title

| State of | |
|----------|--|
| | |

County of _____

_____ Appeared in person before me, who is personally known to me or provided the following identification ______, affixed his/her signature in the space provided above on this _____ day of _____, 20___.

NOTARY PUBLIC My commission expires

Attachment E – Scrutinized Company Certification

Hendry County School District

I hereby swear or affirm that as of the date below this company is not listed on a Scrutinized Companies list created pursuant to 215.4725, 215.473, or 287.135, Florida Statutes. Pursuant to 287.135, Florida Statutes I further affirm that:

1. This company is not participating in a boycott of Israel such that it is not refusing to deal, terminating business activities, or taking other actions to limit commercial relations with Israel, or persons or entities doing business in Israel or in Israeli-controlled territories, in a discriminatory manner.

2. This Company does not appear on the Scrutinized Companies with Activities in Sudan List where the State Board of Administration has established the following criteria:

- a. Have a material business relationship with the government of Sudan or a governmentcreated project involving oil related, mineral extraction, or power generation activities, or
- b. Have a material business relationship involving the supply of military equipment, or

c. Impart minimal benefit to disadvantaged citizens that are typically located in the geographic periphery of Sudan, or

d. Have been complicit in the genocidal campaign in Darfur.

3. This Company does not appear on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List where the State Board of Administration has established the following criteria:

a. Have a material business relationship with the government of Iran or a government created project involving oil related or mineral extraction activities, or

b. Have made material investments with the effect of significantly enhancing Iran's petroleum sector.

4. This Company is not engaged in business operations in Cuba or Syria.

Name of Company

Authorized Officer Signature

Date

Name

Title

CONSTRUCTION DOCUMENTS

PROJECT MANUAL

FOR THE

ROOFING REPLACEMENT

AT

CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

December 15, 2023

PREPARED FOR: Hendry County School Board Clewiston, Florida



INDEX TO PROJECT MANUAL

THE CONTRACTOR IS REQUIRED TO COMPARE THIS PROJECT MANUAL WITH THE INDEX BELOW FOR COMPLETENESS. IF ANY PAGES ARE MISSING OR ILLEGIBLE IT IS THEIR RESPONSIBILITY TO REQUEST REPLACEMENTS FROM THE ARCHITECT.

DIVISION 0 - BIDDING AND CONTRACT REQUIREMENTS

| SECTION 00 00 10 | TABLE OF CONTENTS |
|------------------|--------------------|
| SECTION 00 00 40 | BID PROPOSAL FORM |
| SECTION 00 00 50 | GENERAL CONDITIONS |

DIVISION 1 - GENERAL REQUIREMENTS

| SECTION 01 01 00 | SUMMARY OF WORK |
|------------------|--|
| SECTION 01 02 70 | APPLICATIONS FOR PAYMENT |
| SECTION 01 03 50 | MODIFICATION PROCEDURES |
| SECTION 01 04 00 | COORDINATION |
| SECTION 01 04 50 | CUTTING AND PATCHING |
| SECTION 01 30 00 | SUBMITTALS |
| SECTION 01 40 00 | QUALITY CONTROL |
| SECTION 01 42 10 | REFERENCE STANDARDS AND DEFINITIONS |
| SECTION 01 50 00 | CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS |
| SECTION 01 60 00 | MATERIALS AND EQUIPMENT |
| SECTION 01 63 10 | SUBSTITUTIONS |
| SECTION 01 70 00 | CONTRACT CLOSEOUT |
| | |

DIVISION 2 – SITE WORK

SECTION 02 41 19 SELECTIVE DEMOLITION

DIVISION 3 – CONCRETE – NOT USED

DIVISION 4 – MASONRY – NOT USED

DIVISION 5 – METALS – NOT USED

DIVISION 6 – WOOD AND PLASTICS, AND COMPOSITES

| SECTION 06 10 00 | ROUGH CARPENTRY |
|------------------|-----------------|
| SECTION 06 15 00 | WOOD DECKING |

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

| SECTION 07 01 50 | PREPARATION FOR REROOFING |
|------------------|---|
| SECTION 07 52 16 | STYRENE BUTADIENE STYRENE MODIFIED BITUMINOUS |
| | MEMBRANE ROOFING |
| SECTION 07 62 00 | SHEET METAL FLASHING AND TRIM |
| SECTION 07 72 00 | ROOF ACCESSORIES |
| SECTION 07 92 00 | JOINT SEALANTS |

DIVISION 8 - OPENINGS – NOT USED

DIVISION 9 – FINISHES SECTION 09 91 13 EXTERIOR PAINTING

DIVISION 10 – NOT USED

DIVISION 11 – NOT USED

DIVISION 12 – NOT USED

DIVISION 13-32 – NOT USED

DRAWINGS IN 24" X 36" FORMAT

DRAWING INDEX

- G1.0 COVER SHEET
- G1.1 SYMBOLS, ABBREVIATIONS AND CODE INFORMATION
- G1.2 GENERAL NOTES
- G1.3 SCOPE OF WORK
- G1.4 SITE PLAN
- A1.0 DEMOLITION ROOF PLAN
- A1.1 PROPOSED ROOF PLAN
- A1.2 WIND UPLIFT PRESSURE ROOF PLAN
- A2.01 ROOF DETAILS
- A2.02 ROOF DETAILS
- A2.03 ROOF DETAILS
- A2.04 ROOF DETAILS
- A2.10 ROOF DETAILS
- A2.20 ROOF DETAILS
- A2.21 ROOF DETAILS
- A3.0 PHOTOGRAPHS
- A3.1 PHOTOGRAPHS

SECTION 000040 - BID PROPOSAL FORM

DATE:

PROJECT:

Clewiston Youth Development Academy Roofing Replacement

OWNER: Hendry County District School Board 25 E. Hickpochee Ave. LaBelle, FL 33935

Bidders:

Having carefully examined the Project Manual and Drawings entitled

Clewiston Youth Development Academy

Roofing Replacement

and Addenda Nos. ______, as well as the premises and conditions affecting the work, the undersigned proposes to furnish all services, labor and materials, called for by them for the entire work, in accordance with said documents for the sum of:

Base Bid:

(In words)

(In numbers) Include all non-construction costs including but not limited to Payment and Performance Bond Costs and General

Requirement costs in base bid amount.

ALTERNATES:

Alternate One:

Install gutters and downspouts on the roof perimeters of Buildings 4 and 5 in accordance with Scope of Work 7.0.

Alternate One:

(In words)

(In numbers)

(\$______

(\$_____

Unit Prices:

Include the cost of the following Work in the base bid proposal and include the unit price to adjust the base bid to reflect actual field conditions:

Unit Price One:

Replacement of existing wood deck at the perimeter of Building 4.

Base Bid Quantity: 200 square feet

Unit Price: _____ per square foot.

Continued

BID PROPOSAL FORM

Dollars

Dollars

)

Unit Price Two:

Replacement of the field of the roof at Building 4 from the existing wood deck.

Base Bid Quantity: 150 square feet

Unit Price: _____ per square foot.

The full names and addresses of all persons and firms interested in the foregoing bids as anticipated subcontractors are as follows:

The legal name of the Bidder is:

The legal address of the Bidder is:

Telephone (_____)____.

If a corporation, list the full name of the president, secretary, and treasurer:

LEGALSIGNATURE:_____

TITLE:

BID PROPOSAL FORM

Facility: Clewiston Youth Development Academy Project: Roofing Replacement

The School Board of Hendry County, Florida 25 E. Hickpochee Ave. LaBelle, FL 33935 (863) 674-4550

SWORN STATEMENT UNDER SECTION 287.133 (3) (a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES (To be signed in the presence of a notary

public or other officer authorized to administer oaths.)

STATE OF _____

COUNTY OF

Before me, the undersigned authority, personally appeared who, being by me first

duly sworn, made the following statement:

1. The business address of _____(name of bidder or contractor) is

2. My relationship to (name of bidder or contractor) is

(relationship such as sole proprietor, partner, president, vice president).

3. I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to an Public entity or such an agency or political subdivision and involving antitrust, fraud theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt. In any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that "affiliate" is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime, or (2) an entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime, or (3) those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate, or venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

6. Neither the bidder or contractor nor any officer, director, executive, partner, shareholder, employee, member or agent who is active in the management of the bidder or contractor nor any affiliate of the bidder or contractor has been convicted of a public entity crime subsequent to July 1, 1989).

7. There has been a conviction of a public entity crime by the bidder or contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the bidder or contractor who is active in the management of the bidder or contractor or an affiliate or the bidder or contractor. A determination has been made pursuant to Section 287.133 (3) by order of the Division of Administrative Hearings that it is not in the public interest for the name of the convicted person or affiliate is:

. A copy of the order of the Division of Administrative Hearings is attached to this statement.

(Draw a line through paragraph 7 if paragraph 6 above applies.)

Sworn to and subscribed before me, the undersigned authority, by

who is personally known to me or who did produce

Signature of Authorized Representative (Manual)

as identification, and who did take an oath.

Name of Authorized Representative (Typed or Printed)

_____Notary Public (Affix Notary's Seal)

My Commission expires on

BID PROPOSAL FORM

SECTION 00 00 50 - GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION

A. The General Conditions of this Contract is the current 2017 edition of the AIA Document A201, General Conditions of the Contract for Construction, hereby made a part of these specifications by reference as though fully written herein.

END OF SECTION 00 00 50

SECTION 010100 - SUMMARY OF WORK

PART - GENERAL

A. RELATED DOCUMENTS

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

B. PROJECT DIRECTORY

1. The **Project:** Clewiston Youth Development Academy 475 East Osceola Avenue Clewiston, Florida 33440

2. The **Building Owner:** Hendry County School Board 25 East Hickpochee Avenue LaBelle, Florida 33935

 The Owner's Representative: Anthony Busin, Director of Facilities, Maintenance & Transportation Hendry County Schools 4040 Cowboy Way LaBelle, Florida 33935 Email: busina@hendry-schools.net Office: 863-674-4184

4. The **Project Architect:** Jay Ammon Architect, Inc. 126 South Park Avenue, Suite A Winter Park, Florida 32789

- 5. The Architect's Representative: Jay Ammon, AIA Email: [jay@jayammon.com] Office: (407) 333-1977
- 6. The **Contract Documents** for the Project, dated December 15, 2023 were prepared by Jay Ammon Architect, Inc.

C. SCOPE OF WORK

- 1. The **Scope of Work** includes but is not limited to the Work:
 - a. Replacement of the Roofing assemblies of Buildings 4, 5, 7, and 8.

D. WORK SEQUENCE

1. The Work will be conducted in one phase.

E. CONTRACTOR USE OF PREMISES

- 1. Use of the Site: Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.
 - a. Owner Occupancy: Allow for Owner occupancy and use by the public.
 - b. Driveways and Entrances: Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- 2. Use of the Existing Building: Maintain the existing building in a weather tight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.
- 3. Occupant Safety: Occupant safety shall be a primary requirement. Submit a written plan to the architect which describes all procedures to ensure occupant safety.

F. OCCUPANCY REQUIREMENTS

- 1. Full Owner Occupancy: The Owner will occupy the site and existing building during the construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate owner usage. Perform the Work so as not to interfere with the Owner's operations. Submit a written safety plan which when executed during the construction phase, ensures maximum safety conditions for the occupants.
- 2. All work shall be completed as required to ensure the continual conditioning of air when the building is occupied.

G. MISCELLANEOUS PROVISIONS

- 1. Construction Delays: Maintain a daily construction progress log. Note delays due to rain or due to other causes. Rain delay extensions will be approved for rain delays which exceed the normal number of rain days during the construction period as stated in NOAA records. Advise the Architect by email on the day of any delays. Failure to advise the Architect will result in a day of Work being assessed to the Contractor.
- 2. Existing Damage: Prior to commencement of the Work, conduct an inspection of the premises, including, but not limited to, interior and exterior building surfaces and site elements. Prior to commencement of the Work, prepare and submit to the Owner, a video of any damaged building or site components and the location of the damage. Failure to note existing damage may result in the cost to repair the damage being assessed to the Contractor.

PART 2- PRODUCTS (Not Applicable)

PART 3- EXECUTION (Not Applicable

END OF SECTION 010100

SECTION 01 02 70 - APPLICATIONS FOR PAYMENT

PART1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements governing the Contractor's Applications for Payment.
- B. Related Sections: The following Sections contain requirements that relate to this Section.
 - 1. Schedules: The Contractor's Construction Schedule and Submittal Schedule are specified in Division 1 Section "Submittals."

1.3 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the Schedule of Values with preparation of the Contractor's Construction Schedule.
 - 1. Correlate line items in the Schedule of Values with other required administrative schedules and forms, including:
 - a. Contractor's Construction Schedule.
 - b. Application for Payment forms, including Continuation Sheets.
 - c. List of subcontractors.
 - d. Schedule of allowances.
 - e. Schedule of alternates.
 - f. List of products.
 - g. List of principal suppliers and fabricators.
 - h. Schedule of submittals.
 - 2. Submit the Schedule of Values to the Architect at the earliest possible date but no later than 7 days before the date scheduled for submittal of the initial Applications for Payment.
- B. Format and Content: Use the Project Manual table of contents as a guide to establish the format for the Schedule of Values. Provide at least one line item for each Specification Section.
 - 1. Identification: Include the following Project identification on the Schedule of Values:
 - a. Project name and location.
 - b. Name of the Architect.
 - c. Project number.
 - d. Contractor's name and address.
 - e. Date of submittal.

- 2. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:
 - a. Related Specification Section or Division.
 - b. Description of Work.
 - c. Name of subcontractor.
 - d. Name of manufacturer or fabricator.
 - e. Name of supplier.
 - f. Change Orders (numbers) that affect value.
 - g. Dollar value.
 - 1) Percentage of Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
- 3. Provide a breakdown of the Contract Sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Break principal subcontract amounts down into several line items.
- 4. Round amounts to nearest whole dollar; the total shall equal the Contract Sum.
- 5. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment, purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. Include requirements for insurance and bonded warehousing, if required.
- 6. Provide separate line items on the Schedule of Values for initial cost of the materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
- 7. Margins of Cost: Show line items for indirect costs and margins on actual costs only when such items are listed individually in Applications for Payment. Each item in the Schedule of Values and Applications for Payment shall be complete. Include the total cost and proportionate share of general overhead and profit margin for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-inplace may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at the Contractor's option.

1.4 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by the Architect and paid for by the Owner.
 - 1. The initial Application for Payment, the Application for Payment at time of Substantial Completion, and the final Application for Payment involve additional requirements.
- B. Payment-Application Times: Each progress-payment date is indicated in the Agreement. The period of construction Work covered by each Application for Payment is the period indicated in the Agreement.
- C. Payment-Application Forms: Use AIA Document G702 and Continuation Sheets G703 as the form for Applications for Payment.

- D. Application Preparation: Complete every entry on the form. Include notarization and execution by a person authorized to sign legal documents on behalf of the Contractor. The Architect will return incomplete applications without action.
 - 1. Entries shall match data on the Schedule of Values and the Contractor's Construction Schedule. Use updated schedules if revisions were made.
 - 2. Include amounts of Change Orders and Construction Change Directives issued prior to the last day of the construction period covered by the application.
- E. Transmittal: Submit 5 signed and notarized original copies of each Application for Payment to the Architect by a method ensuring receipt within 24 hours. One copy shall be complete, including waivers of lien and similar attachments, when required.
 - 1. Transmit each copy with a transmittal form listing attachments and recording appropriate information related to the application, in a manner acceptable to the Architect.
- F. Initial Application for Payment: Administrative actions and submittals, that must precede or coincide with submittal of the first Application for Payment, include the following:
 - 1. List of subcontractors.
 - 2. List of principal suppliers and fabricators.
 - 3. Schedule of Values.
 - 4. Contractor's Construction Schedule (preliminary if not final).
 - 5. Schedule of principal products.
 - 6. Schedule of unit prices.
 - 7. Submittal Schedule (preliminary if not final).
 - 8. List of Contractor's staff assignments.
 - 9. List of Contractor's principal consultants.
 - 10. Copies of authorizations and licenses from governing authorities for performance of the Work.
 - 11. Initial progress report.
 - 12. Report of preconstruction meeting.
 - 13. Certificates of insurance and insurance policies.
 - 14. Performance and payment bonds.
 - 15. Data needed to acquire the Owner's insurance.
 - 16. Initial settlement survey and damage report, if required.
- G. Application for Payment at Substantial Completion: Following issuance of the Certificate of Substantial Completion, submit an Application for Payment.
 - 1. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
 - 2. Administrative actions and submittals that shall precede or coincide with this application include:
 - a. Warranties (guarantees) and maintenance agreements.
 - b. Test/adjust/balance records.
 - c. Maintenance instructions.
 - d. Startup performance reports.
 - e. Final cleaning.
 - f. Application for reduction of retainage and consent of surety.
 - g. List of incomplete Work, recognized as exceptions to Architect's Certificate of Substantial

Completion.

- H. Final Payment Application: Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include the following:
 - 1. Completion of Project closeout requirements.
 - 2. Completion of items specified for completion after Substantial Completion.
 - 3. Ensure that unsettled claims will be settled.
 - 4. Ensure that incomplete Work is not accepted and will be completed without undue delay.
 - 5. Transmittal of required Project construction records to the Owner.
 - 6. Proof that taxes, fees, and similar obligations were paid.
 - 7. Removal of temporary facilities and services.
 - 8. Removal of surplus materials, rubbish, and similar elements.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 02 70

SECTION 01 03 50 - MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section specifies administrative and procedural requirements for handling and processing contract modifications.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Unit Prices" for administrative requirements governing use of unit prices.
 - 2. Division 1 Section "Submittals" for requirements for the Contractor's Construction Schedule.
 - 3. Division 1 Section "Applications for Payment" for administrative procedures governing Applications for Payment.
 - 4. Division 1 Section "Product Substitutions" for administrative procedures for handling requests for substitutions made after award of the Contract.

1.3 MINOR CHANGES IN THE WORK

A. The Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or Contract Time, on AIA Form G710, Architect's Supplemental Instructions.

1.4 CHANGE ORDER PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: The Architect will issue a detailed description of proposed changes in the Work that will require adjustment to the Contract Sum or Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Within 20 days of receipt of a proposal request, submit an estimate of cost necessary to execute the change to the Architect for the Architect's and Owner's review.
 - a. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include a statement indicating the effect the proposed change in the Work will have on the Contract Time.

- B. Contractor-Initiated Proposals: When latent or unforseen conditions require modifications to the Contract, the Contractor may propose changes by submitting a request for a change to the Architect.
 - 1. Include a statement outlining the reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and Contract Time.
 - 2. Include a list of quantities of products required and unit costs, with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - 4. Comply with requirements in Section "Product Substitutions" if the proposed change requires substitution of one product or system for a product or system specified.

1.5 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: When the Owner and the Contractor disagree on the terms of a Proposal Request, the Architect may issue a Construction Change Directive as described in Section 00700, Article 7.
 - 1. The Construction Change Directive contains a complete description of the change in the Work. It also designates the method to be followed to determine change in the Contract Sum or Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of the change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.6 CHANGE ORDER PROCEDURES

A. Upon the Owner's approval of a Change Order Proposal Request, the Architect will issue a Change Order for signatures of the Owner and the Contractor, as described in Section 00700, Article 7.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 03 50

SECTION 01 04 00 - COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and supervisory requirements necessary for coordinating construction operations including, but not necessarily limited to, the following:
 - 1. General project coordination procedures.
 - 2. Conservation.
 - 3. Coordination Drawings.
 - 4. Administrative and supervisory personnel.
 - 5. Cleaning and protection.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Project Meetings" for progress meetings, coordination meetings, and preinstallation conferences.
 - 2. Division 1 Section "Submittals" for preparing and submitting the Contractor's Construction Schedule.
 - 3. Division 1 Section "Materials and Equipment" for coordinating general installation.
 - 4. Division 1 Section "Contract Closeout" for coordinating contract closeout.

1.3 COORDINATION

- A. Coordinate construction operations included in various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations included under different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in the sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to assure maximum accessibility for required maintenance, service, and repair.
 - 3. Make provisions to accommodate items scheduled for later installation.
- B. Where necessary, prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.
 - 1. Prepare similar memoranda for the Owner and separate contractors where coordination of their work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with

other construction activities to avoid conflicts and assure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

- 1. Preparation of schedules.
- 2. Installation and removal of temporary facilities.
- 3. Delivery and processing of submittals.
- 4. Progress meetings.
- 5. Project closeout activities.
- D. Conservation: Coordinate construction operations to assure that operations are carried out with consideration given to conservation of energy, water, and materials.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated in, the Work.
- E. Coordination with Specific Owner Requirements
 - 1. All existing exits and any existing fire protection requirements shall be continuously maintained unless other measures are taken which provide equivalent safety per SREF requirements (2010). The Contractor is to submit a Safety Plan depicting how they will keep Exit ways protected and in a safe condition while the buildings are occupied. Stipulate how the fresh air and exhaust fans will be kept in continued use while the buildings are occupied.
 - 2. Stipulate in the Construction Safety Plan how the Contractor will keep the buildings occupied during the reroofing operations. Such safety provision shall be submitted to and approved by the Architect prior to the beginning of construction.
 - 3. The Contractor shall insure that all existing Exit Code Requirements and fire protection/life safety systems remain continuously operational during construction. Safety systems include, but are not limited to: existing, safety rescue, fire rating, fire protection, means of egress, master valves, eye wash and dousing shower in science labs; emergency disconnects in shops, fume and dust collection systems; heat and smoke detectors; working stage protection including curtain operation, smoke vent, sprinklers, etc.; kitchen hood; fire sprinklers; smoke venting; illumination of means of egress; emergency lighting, emergency power; exit lights; fire alarm systems with required ventilation, toilet facilities; kitchen hot water supply; water supply; and sewage disposal as they apply to this project.
 - 4. Roof loading or overhead crane operations shall be scheduled such that school facilities are <u>not</u> occupied.
 - 5. Contractor and contractor's personnel shall follow all rules and regulations of The Hendry County School Board in regards to working with this project.
 - a. Workmen are not to traverse any walkway between buildings or buildings that are not included in this contract as well as new work that has been completed.
 - b. The Contractor shall coordinate access parking areas and egress of all Contractor personnel, tradesmen, sub-contractors, and material delivery with the administrative office of the school prior to commencement of construction.
 - c. No smoking is permitted on the school campus.
 - d. AM/FM radios, tape or CD players are not to be utilized on the school campus.

- e. No firearms and or other weapons shall be brought onto the site.
- f. The designated superintendent/foreman is to sign in and out all workmen on the site on a daily basis at the main office.
- g. If the Contractor requires access to the school campus during School Holiday periods, weekends, or during other after school hours, the Contractor shall contact the School District Project Facility Manager for authorized access. The Contractor shall notify the Facility Manager in a manner required by the Facility Manager immediately prior to leaving the site.
- 6. All visitors to the site shall sign in the Site Visitors Log to be kept in the School Board Construction Office trailer or other designated location.
- 7. All HVAC exhaust and fresh air units contacted by bituminous fumes shall be temporarily sealed to prevent entry of fumes into the building. Remove seals at the end of each work day. Locate tankers and kettles to prevent fumes from adversely affecting people and property.
- 8. The Contractor shall verify hours for construction operations regarding noise abatement requirements with the local municipality having jurisdiction.
- 9. A copy of all required city, county and state licenses that are applicable shall be supplied to the School Board Project Facility Manager prior to the appropriate work commencing.
- 10. A copy of the Prime Contractor's and (if applicable) other sub-contractor's licenses shall be given to the School District's, project Facility Manager prior to their respective work commencing.
- 11. The Owner will perform any trimming, pruning or relocation of trees or significant landscape materials (excluding sod and annuals) as needed for the project. Contractor will request these services two weeks prior to the needed date or be liable for replacement of these materials at no additional cost.
- 12. The Contractor shall verify that construction fencing ingress and egress have been approved by the Fire Department having jurisdiction, prior to installation of the fencing. If the construction fence staging area is adjacent to occupied buildings with windows or doors, maintain a minimum of 8' 0" clearance between the exterior face of the building and the construction fencing.
- 13. A video shall be made by the Contractor of all mechanical systems and individual components including the interior of each building. The purpose of the video is to establish the existing interior conditions prior to construction. Equipment will be operated in the presence of representatives of both Contractor and School District, prior to any demolition or disconnection of mechanical equipment in order to establish working order and operating conditions at the start of construction project, and the degree of responsibility that the Contractor will have when required to place these systems back in operating order. The Contractor shall give the School Board Project Manager a copy of the video within seven (7) days from filming.
- 14. The Contractor shall maintain a Daily Report describing all construction activities and construction site equipment being utilized. The Contractor shall submit copies of these reports on a daily basis to the Hendry County School Board Project Facility Manager.
- 15. The Contractor shall notify the Architect and the Hendry County School Board Facility Manager immediately upon any and all site construction related accidents. Copies of the construction accident

reports and police reports shall be submitted to the Architect and the Hendry County School Board Facility Manager the same day of the occurrence of the accident.

- 16. The Contractor is limited to displaying only one project sign with his company's name, address, and logo. No sub-contractor signs are permitted.
- 17. All construction personnel shall comply with the Jessica Lunsford Act (House Bill 1877, Chapter 2005-28, L.O.F., section 21) fingerprinting and all other security checks. Submit proof of compliance to the Owner prior to entry to the site.

1.4 SUBMITTALS

- A. Staff Names: Within 15 days of commencement of construction operations, submit a list of the Contractor's principal staff assignments, including the superintendent and other personnel in attendance at the Project Site. Identify individuals and their duties and responsibilities. List their addresses and telephone numbers. Also include emergency telephone numbers of Construction Superintendent, Project Manager, and Owner of the Contractor's Company. These individuals must be accessible 24 hours a day, seven days per week throughout the construction period.
 - 1. Post copies of the list in the Principal's office, Owner's Project Manager's office, Project meeting room, the temporary field office, and each temporary telephone.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 GENERAL COORDINATION PROVISIONS

- A. Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.
- B. Coordinate temporary enclosures with required inspections and tests to minimize the necessity of uncovering completed construction for that purpose.

3.2 CLEANING AND PROTECTION

- A. Clean and protect construction in progress and adjoining materials in place, during handling and installation. Apply protective covering where required to assure protection from damage or deterioration at Substantial Completion.
- B. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to assure operability without damaging effects.
- C. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious

exposure during the construction period. Where applicable, such exposures include, but are not limited to, the following:

- 1. Excessive static or dynamic loading.
- 2. Excessive internal or external pressures.
- 3. Excessively high or low temperatures.
- 4. Thermal shock.
- 5. Excessively high or low humidity.
- 6. Air contamination or pollution.
- 7. Water or rainwater.
- 8. Solvents.
- 9. Chemicals.
- 10. Light.
- 11. Radiation.
- 12. Puncture.
- 13. Abrasion.
- 14. Heavy traffic.
- 15. Soiling, staining, and corrosion.
- 16. Bacteria.
- 17. Rodent and insect infestation.
- 18. Combustion.
- 19. Electrical current.
- 20. High-speed operation.
- 21. Improper lubrication.
- 22. Unusual wear or other misuse.
- 23. Contact between incompatible materials.
- 24. Destructive testing.
- 25. Misalignment.
- 26. Excessive weathering.
- 27. Unprotected storage.
- 28. Improper shipping or handling.
- 29. Theft.
- 30. Vandalism.

PROCEDURES

FOR

HURRICANE PREPAREDNESS

EMERGENCY MANAGEMENT PROCEDURES

This procedure is to be used when Hendry County receives notification of tropical storm or hurricane watch for this area.

A. RECOMMENDED PROCEDURES FOR GENERAL CONTRACTORS

- 1. The Project Manager should obtain a copy of the Contractor's Hurricane Procedures at commencement of the work and keep this on file at the site. The Project Manager should take note that the Contractor's check list of actions to be accomplished after a hurricane warning, include at least the following items and that these actions are executed by the Contractor.
- 2. Tie down or otherwise secure all construction materials that could be moved by high winds and become airborne objects of damage.
- 3. Remove from the site to a place of proper disposal or otherwise secure all debris and trash.
- 4. Protect any areas of a project where wind driven rain could possibly cause damage to finished surfaces or installed equipment.
- 5. Lower boom on any crane on the site or remove from the site. Disconnect and secure any temporary electric service or other utility connections.
- 6. Secure any scaffolding or temporary support structures that would not be able to withstand hurricane force winds.
- 7. Secure or remove from the site any roofing materials or other building materials stored on the roofs of School buildings. Also every effort shall be made to make all projects as watertight as possible.
- 8. Subsequent to a hurricane warning, General Contractors will insure that a 4 kw generator can be made available at the site when a hurricane watch is issued. The purpose of this generator will be to provide emergency power at the work site after the all clear advisory is issued and the Contractor's personnel return to work.

END OF SECTION 01 04 00

SECTION 01 04 50 - CUTTING AND PATCHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for cutting and patching.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Coordination" for procedures for coordinating cutting and patching with other construction activities.
 - 2. Division 2 Section "Selective Demolition" for demolition of selected portions of the building for alterations.
 - 3. Refer to other Sections for specific requirements and limitations applicable to cutting and patching individual parts of the Work.
 - a. Requirements of this Section apply to mechanical and electrical installations. Refer to Division 15 Sections for other requirements and limitations applicable to cutting and patching mechanical and electrical installations.

1.3 SUBMITTALS

- A. Cutting and Patching Proposal: Submit a proposal describing procedures well in advance of the time cutting and patching will be performed if the Owner requires approval of these procedures before proceeding. Request approval to proceed. Include the following information, as applicable, in the proposal:
 - 1. Describe the extent of cutting and patching required. Show how it will be performed and indicate why it cannot be avoided.
 - 2. Describe anticipated results in terms of changes to existing construction. Include changes to structural elements and operating components as well as changes in the building's appearance and other significant visual elements.
 - 3. List products to be used and firms or entities that will perform Work.
 - 4. Indicate dates when cutting and patching will be performed.
 - 5. Utilities: List utilities that cutting and patching procedures will disturb or affect. List utilities that will be relocated and those that will be temporarily out-of-service. Indicate how long service will be disrupted.
 - 6. Where cutting and patching involves adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with the original structure.
 - 7. Approval by the Architect to proceed with cutting and patching does not waive the Architect's right to later require complete removal and replacement of unsatisfactory work.

1.4 QUALITY ASSURANCE

- A. Requirements for Structural Work: Do not cut and patch structural elements in a manner that would change their load-carrying capacity or load-deflection ratio.
 - 1. Obtain approval of the cutting and patching proposal before cutting and patching the following structural elements:
 - a. Foundation construction.
 - b. Bearing and retaining walls.
 - c. Structural concrete.
 - d. Structural steel.
 - e. Lintels.
 - f. Structural decking.
 - g. Miscellaneous structural metals.
 - h. Equipment supports.
 - i. Piping, ductwork, vessels, and equipment.
- B. Operational Limitations: Do not cut and patch operating elements or related components in a manner that would result in reducing their capacity to perform as intended. Do not cut and patch operating elements or related components in a manner that would result in increased maintenance or decreased operational life or safety.
- C. Visual Requirements: Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in the Architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch construction in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.
 - 1. Engage an experienced and specialized firm for each Work item:

1.5 WARRANTY

A. Existing Warranties: Replace, patch, and repair material and surfaces cut or damaged by methods and with materials in such a manner as not to void any warranties required or existing.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Use materials identical to existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible if identical materials are unavailable or cannot be used. Use materials whose installed performance will equal or surpass that of existing materials.

PART 3 - EXECUTION

3.1 INSPECTION

A Examine surfaces to be cut and patched and conditions under which cutting and patching is to be performed

CUTTING AND PATCHING

before cutting. If unsafe or unsatisfactory conditions are encountered, take corrective action before proceeding.

1. Before proceeding, meet at the Project Site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

3.2 PREPARATION

- A. Temporary Support: Provide temporary support of work to be cut.
- B. Protection: Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of the Project that might be exposed during cutting and patching operations.
- C. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Avoid cutting existing pipe, conduit, or ductwork serving the building but scheduled to be removed or relocated until provisions have been made to bypass them.

3.3 PERFORMANCE

- A General: Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay.
 - 1. Cut existing construction to provide for installation of other components or performance of other construction activities and the subsequent fitting and patching required to restore surfaces to their original condition.
- B. Cutting: Cut existing construction using methods least likely to damage elements retained or adjoining construction. Where possible, review proposed procedures with the original Installer; comply with the original Installer's recommendations.
 - 1. In general, where cutting, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Cut through concrete and masonry using a cutting machine, such as a Carborundum saw or a diamond-core drill.
 - 4. Comply with requirements of applicable Division 2 Sections where cutting and patching requires excavating and backfilling.
 - 5. Where services are required to be removed, relocated, or abandoned, by-pass utility services, such as pipe or conduit, before cutting. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal the remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.
- C. Patching: Patch with durable seams that are as invisible as possible. Comply with specified tolerances.

- 1. Where feasible, inspect and test patched areas to demonstrate integrity of the installation.
- 2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
- 3. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing the patch after the area has received primer and second coat.
- 4. Patch, repair, or rehang existing ceilings as necessary to provide an even-plane surface of uniform appearance.

3.4 CLEANING

A. Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar items. Thoroughly clean piping, conduit, and similar features before applying paint or other finishing materials. Restore damaged pipe covering to its original condition.

END OF SECTION 01 04 50

SECTION 01 30 00 - SUBMITTALS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for submittals required for performance of the Work, including the following:
 - 1. Contractor's construction schedule.
 - 2. Submittal schedule.
 - 3. Daily construction reports.
 - 4. Shop Drawings.
 - 5. Product Data.
 - 6. Samples.
 - 7. Quality assurance submittals.
- B. Administrative Submittals: Refer to other Division 1 Sections and other Contract Documents for requirements for administrative submittals. Such submittals include, but are not limited to, the following:
 - 1. Applications for Payment.
 - 2. Performance and payment bonds.
 - 3. Insurance certificates.
 - 4. List of subcontractors.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Applications for Payment" specifies requirements for submittal of the Schedule of Values.
 - 2. Division 1 Section "Coordination" specifies requirements governing preparation and submittal of required Coordination Drawings.
 - 3. Division 1 Section "Quality Control" specifies requirements for submittal of inspection and test reports.
 - 4. Division 1 Section "Contract Closeout" specifies requirements for submittal of Project Record Documents and warranties at project closeout.

1.3 DEFINITIONS

A. Coordination Drawings show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or to function as intended.

- 1. Preparation of Coordination Drawings is specified in Division 1 Section "Coordination" and may include components previously shown in detail on Shop Drawings or Product Data.
- B. Field samples are full-size physical examples erected on-site to illustrate finishes, coatings, or finish materials. Field samples are used to establish the standard by which the Work will be judged.
- C. Mockups are full-size assemblies for review of construction, coordination, testing, or operation; they are not Samples.

1.4 SUBMITTAL PROCEDURES

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - a. The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
 - 3. Processing: To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for resubmittals.
 - a. Allow 1 weeks for initial review. Allow additional time if the Architect must delay processing to permit coordination with subsequent submittals.
 - b. If an intermediate submittal is necessary, process the same as the initial submittal.
 - c. Allow 1 week for reprocessing each submittal.
 - d. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 - 1. Provide a space approximately 4 by 5 inches (100 by 125 mm) on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.
 - 2. Include the following information on the label for processing and recording action taken.
 - a. Project name.
 - b. Date.
 - c. Name and address of the Architect.
 - d. Name and address of the Contractor.
 - e. Name and address of the subcontractor.
 - f. Name and address of the supplier.
 - g. Name of the manufacturer.
 - h. Number and title of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.

- C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from the Contractor to the Architect using a transmittal form. The Architect will not accept submittals received from sources other than the Contractor.
 - 1. On the transmittal, record relevant information and requests for data. On the form, or separate sheet, record deviations from Contract Document requirements, including variations and limitations. Include Contractor's certification that information complies with Contract Document requirements.
 - 2. Transmittal Form: Use AIA Document G810.

1.5 CONTRACTOR'S CONSTRUCTION SCHEDULE

Bar-Chart Schedule: Prepare a fully developed, horizontal bar-chart-type, contractor's construction schedule. Submit within 30 days after the date established for "Commencement of the Work."

- 1. Provide a separate time bar for each significant construction activity. Provide a continuous vertical line to identify the first working day of each week. Use the same breakdown of units of the Work as indicated in the "Schedule of Values."
- 2. Within each time bar, indicate estimated completion percentage in 10 percent increments. As Work progresses, place a contrasting mark in each bar to indicate Actual Completion.
- 3. Prepare the schedule on a sheet, or series of sheets, of stable transparency, or other reproducible media, of sufficient width to show data for the entire construction period.
- 4. Secure time commitments for performing critical elements of the Work from parties involved. Coordinate each element on the schedule with other construction activities; include minor elements involved in the sequence of the Work. Show each activity in proper sequence. Indicate graphically the sequences necessary for completion of related portions of the Work.
- 5. Coordinate the Contractor's Construction Schedule with the Schedule of Values, list of subcontracts, Submittal Schedule, progress reports, payment requests, and other schedules.
- 6. Indicate completion in advance of the date established for Substantial Completion. Indicate Substantial Completion on the schedule to allow time for the Architect's procedures necessary for certification of Substantial Completion.
- B. Work Stages: Indicate important stages of construction for each major portion of the Work, including submittal review, testing, and installation.
- C. Distribution: Following response to the initial submittal, print and distribute copies to the Architect, Owner, subcontractors, and other parties required to comply with scheduled dates. Post copies in the Project meeting room and temporary field office.
 - 1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- D. Schedule Updating: Revise the schedule after each meeting, event, or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.6 SUBMITTAL SCHEDULE

A. After development and acceptance of the Contractor's Construction Schedule, prepare a complete schedule of submittals. Submit the schedule within 10 days of the date required for submittal of the Contractor's

Construction Schedule.

- 1. Coordinate Submittal Schedule with the list of subcontracts, Schedule of Values, and the list of products as well as the Contractor's Construction Schedule.
- 2. Prepare the schedule in chronological order. Provide the following information:
 - a. Scheduled date for the first submittal.
 - b. Related Section number.
 - c. Submittal category (Shop Drawings, Product Data, or Samples).
 - d. Name of the subcontractor.
 - e. Description of the part of the Work covered.
 - f. Scheduled date for resubmittal.
 - g. Scheduled date for the Architect's final release or approval.
- B. Distribution: Following response to the initial submittal, print and distribute copies to the Architect, Owner, subcontractors, and other parties required to comply with submittal dates indicated. Post copies in the Project meeting room and field office.
 - 1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.7 DAILY CONSTRUCTION REPORTS

- A. Prepare a daily construction report recording the following information concerning events at the site, and submit duplicate copies to the Architect at weekly intervals:
 - 1. List of subcontractors at the site.
 - 2. Approximate count of personnel at the site.
 - 3. High and low temperatures, general weather conditions.
 - 4. Accidents and unusual events.
 - 5. Meetings and significant decisions.
 - 6. Stoppages, delays, shortages, and losses.
 - 7. Emergency procedures.
 - 8. Orders and requests of governing authorities.
 - 9. Change Orders received, implemented.
 - 10. Services connected, disconnected.
 - 11. Equipment or system tests and startups.
 - 12. Partial Completions, occupancies.
 - 13. Substantial Completions authorized.

1.8 SHOP DRAWINGS

A. Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the

Project is not a Shop Drawing.

- B. Shop Drawings include fabrication and installation Drawings, setting diagrams, schedules, patterns, templates and similar Drawings. Include the following information:
 - 1. Dimensions.
 - 2. Identification of products and materials included by sheet and detail number.
 - 3. Compliance with specified standards.
 - 4. Notation of coordination requirements.
 - 5. Notation of dimensions established by field measurement.
 - 6. Sheet Size: Except for templates, patterns and similar full-size Drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm) but no larger than 36 by 48 inches (890 by 1220 mm).
 - 7. Final Submittal: Submit 3 blue- or black-line prints; submit 5 prints where required for maintenance manuals. The Architect will retain 2 prints and return the remainder.
 - a. One of the prints returned shall be marked up and maintained as a "Record Document."
 - 8. Do not use Shop Drawings without an appropriate final stamp indicating action taken.

1.9 PRODUCT DATA

- A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
 - 1. Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.
 - e. Notation of dimensions verified by field measurement.
 - f. Notation of coordination requirements.
 - 2. Do not submit Product Data until compliance with requirements of the Contract Documents has been confirmed.
 - 3. Preliminary Submittal: Submit a preliminary single copy of Product Data where selection of options is required.
 - 4. Submittals: Submit 5 copies of each required submittal. The Architect will retain one and will return the other marked with action taken and corrections or modifications required.
 - a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.
 - 5. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms.

- a. Do not proceed with installation until a copy of Product Data is in the Installer's possession.
- b. Do not permit use of unmarked copies of Product Data in connection with construction.

1.10 SAMPLES

- A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture, and pattern.
 - 1. Mount or display Samples in the manner to facilitate review of qualities indicated. Prepare Samples to match the Architect's sample. Include the following:
 - a. Specification Section number and reference.
 - b. Generic description of the Sample.
 - c. Sample source.
 - d. Product name or name of the manufacturer.
 - e. Compliance with recognized standards.
 - f. Availability and delivery time.
 - 2. Submit Samples for review of size, kind, color, pattern, and texture. Submit Samples for a final check of these characteristics with other elements and a comparison of these characteristics between the final submittal and the actual component as delivered and installed.
 - a. Where variation in color, pattern, texture, or other characteristic is inherent in the material or product represented, submit at least 3 multiple units that show approximate limits of the variations.
 - b. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar construction characteristics.
 - c. Refer to other Sections for Samples to be returned to the Contractor for incorporation in the Work. Such Samples must be undamaged at time of use. On the transmittal, indicate special requests regarding disposition of Sample submittals.
 - d. Samples not incorporated into the Work, or otherwise designated as the Owner's property, are the property of the Contractor and shall be removed from the site prior to Substantial Completion.
 - 3. Submittals: Except for Samples illustrating assembly details, workmanship, fabrication techniques, connections, operation, and similar characteristics, submit 2 sets. The Architect will return one set marked with the action taken.
 - 4. Maintain sets of Samples, as returned, at the Project Site, for quality comparisons throughout the course of construction.
 - a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.
 - b. Sample sets may be used to obtain final acceptance of the construction associated with each set.
- B. Distribution of Samples: Prepare and distribute additional sets to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work. Show distribution on transmittal forms.

- 1. Field samples are full-size examples erected on-site to illustrate finishes, coatings, or finish materials and to establish the Project standard.
 - a. Comply with submittal requirements to the fullest extent possible. Process transmittal forms to provide a record of activity.

1.11 QUALITY ASSURANCE SUBMITTALS

- A. Submit quality-control submittals, including design data, certifications, manufacturer's instructions, manufacturer's field reports, and other quality-control submittals as required under other Sections of the Specifications.
- B. Certifications: Where other Sections of the Specifications require certification that a product, material, or installation complies with specified requirements, submit a notarized certification from the manufacturer certifying compliance with specified requirements.
 - 1. Signature: Certification shall be signed by an officer of the manufacturer or other individual authorized to sign documents on behalf of the company.
- C. Inspection and Test Reports: Requirements for submittal of inspection and test reports from independent testing agencies are specified in Division 1 Section "Quality Control."

1.12 ARCHITECT'S ACTION

- A. Except for submittals for the record or information, where action and return is required, the Architect will review each submittal, mark to indicate action taken, and return promptly.
 - 1. Compliance with specified characteristics is the Contractor's responsibility.
- B. Action Stamp: The Architect will stamp each submittal with a uniform, action stamp. The Architect will mark the stamp appropriately to indicate the action taken, as follows:
 - 1. Reviewed: When the Architect marks a submittal "Reviewed," the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents. Final payment depends on that compliance.
 - 2. Reviewed with Corrections: When the Architect marks a submittal "Reviewed with Corrections," the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents. Final payment depends on that compliance.
 - 3. Returned for Resubmittal: When the Architect marks a submittal "Not Approved, Revise and Resubmit," do not proceed with Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal according to the notations; resubmit without delay. Repeat if necessary to obtain different action mark.
 - a. Do not use, or allow others to use, submittals marked "Not Approved, Revise and Resubmit" at the Project Site or elsewhere where Work is in progress.
 - 4. Other Action: Where a submittal is for information or record purposes or special processing or other activity, the Architect will return the submittal marked "Action Not Required."

C. Unsolicited Submittals: The Architect will return unsolicited submittals to the sender without action.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 30 00

SECTION 01 40 00 - QUALITY CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for quality-control services.
- B. Quality-control services include inspections, tests, and related actions, including reports performed by Contractor, by independent agencies, and by governing authorities. They do not include contract enforcement activities performed by Architect.
- C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with Contract Document requirements.
- D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.
 - 1. Specific quality-control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified inspections, tests, and related actions do not limit Contractor's quality-control procedures that facilitate compliance with Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
- E. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Cutting and Patching" specifies requirements for repair and restoration of construction disturbed by inspection and testing activities.
 - 2. Division 1 Section "Submittals" specifies requirements for development of a schedule of required tests and inspections.

1.3 **RESPONSIBILITIES**

A. Contractor Responsibilities: Unless otherwise indicated as the responsibility of another identified entity, Contractor shall provide inspections, tests, and other quality-control services specified elsewhere in the Contract Documents and required by authorities having jurisdiction. Costs for these services are included in the Contract Sum except where designated in the specifications that the Owner will pay for the testing.

- 1. Where individual Sections specifically indicate that certain inspections, tests, and other qualitycontrol services are the Contractor's responsibility, the Contractor shall employ and pay a qualified independent testing agency to perform quality-control services. Costs for these services are included in the Contract Sum.
- 2. Where individual Sections specifically indicate that certain inspections, tests, and other qualitycontrol services are the Owner's responsibility, the Owner will employ and pay a qualified independent testing agency to perform those services.
- 3. Where individual Sections specifically indicate that certain inspections, tests, and other qualitycontrol services are the Owner's responsibility, the Owner will engage the services of a qualified independent testing agency to perform those services. Payment for these services will be made from the Inspection and Testing Allowance, as authorized by Change Orders.
 - a. Where the Owner has engaged a testing agency for testing and inspecting part of the Work, and the Contractor is also required to engage an entity for the same or related element, the Contractor shall not employ the entity engaged by the Owner, unless agreed to in writing by the Owner.
- B. Retesting: The Contractor is responsible for retesting where results of inspections, tests, or other qualitycontrol services prove unsatisfactory and indicate noncompliance with Contract Document requirements, regardless of whether the original test was Contractor's responsibility.
 - 1. The cost of retesting construction, revised or replaced by the Contractor, is the Contractor's responsibility where required tests performed on original construction indicated noncompliance with Contract Document requirements.
- C. Associated Services: Cooperate with agencies performing required inspections, tests, and similar services, and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include, but are not limited to, the following:
 - 1. Provide access to the Work.
 - 2. Furnish incidental labor and facilities necessary to facilitate inspections and tests.
 - 3. Take adequate quantities of representative samples of materials that require testing or assist the agency in taking samples.
 - 4. Provide facilities for storage and curing of test samples.
 - 5. Deliver samples to testing laboratories.
 - 6. Provide the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
 - 7. Provide security and protection of samples and test equipment at the Project Site.
- D. Duties of the Testing Agency: The independent agency engaged to perform inspections, sampling, and testing of materials and construction specified in individual Sections shall cooperate with the Architect and the Contractor in performance of the agency's duties. The testing agency shall provide qualified personnel to perform required inspections and tests.
 - 1. The agency shall notify the Architect and the Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. The agency is not authorized to release, revoke, alter, or enlarge requirements of the Contract Documents or approve or accept any portion of the Work.
 - 3. The agency shall not perform any duties of the Contractor.

- E. Coordination: Coordinate the sequence of activities to accommodate required services with a minimum of delay. Coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.
 - 1. The Contractor is responsible for scheduling times for inspections, tests, taking samples, and similar activities.

1.4 SUBMITTALS

- A. Unless the Contractor is responsible for this service, the independent testing agency shall submit a certified written report, in duplicate, of each inspection, test, or similar service to the Architect. If the Contractor is responsible for the service, submit a certified written report, in duplicate, of each inspection, test, or similar service through the Contractor.
 - 1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.
 - 2. Report Data: Written reports of each inspection, test, or similar service include, but are not limited to, the following:
 - a. Date of issue.
 - b. Project title and number.
 - c. Name, address, and telephone number of testing agency.
 - d. Dates and locations of samples and tests or inspections.
 - e. Names of individuals making the inspection or test.
 - f. Designation of the Work and test method.
 - g. Identification of product and Specification Section.
 - h. Complete inspection or test data.
 - i. Test results and an interpretation of test results.
 - j. Ambient conditions at the time of sample taking and testing.
 - k. Comments or professional opinion on whether inspected or tested Work complies with Contract Document requirements.
 - 1. Name and signature of laboratory inspector.
 - m. Recommendations on retesting.

1.5 QUALITY ASSURANCE

- A. Qualifications for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, that are prequalified as complying with the American Council of Independent Laboratories' "Recommended Requirements for Independent Laboratory Qualification" and that specialize in the types of inspections and tests to be performed.
 - 1. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the state where the Project is located.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

QUALITY CONTROL

3.1 REPAIR AND PROTECTION

- A. General: Upon completion of inspection, testing, sample taking and similar services, repair damaged construction and restore substrates and finishes. Comply with Contract Document requirements for Division 1 Section "Cutting and Patching."
- B. Protect construction exposed by or for quality-control service activities, and protect repaired construction.
- C. Repair and protection is Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing, or similar services.

END OF SECTION 01 40 00

SECTION 01 42 10 - REFERENCE STANDARDS AND DEFINITIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DEFINITIONS

- A. General: Basic contract definitions are included in the Conditions of the Contract.
- B. "Indicated": The term "indicated" refers to graphic representations, notes, or schedules on the Drawings; or to other paragraphs or schedules in the Specifications and similar requirements in the Contract Documents. Terms such as "shown," "noted," "scheduled," and "specified" are used to help the user locate the reference. Location is not limited.
- C. "Directed": Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean directed by the Architect, requested by the Architect, and similar phrases.
- D. "Approved": The term "approved," when used in conjunction with the Architect's action on the Contractor's submittals, applications, and requests, is limited to the Architect's duties and responsibilities as stated in the Conditions of the Contract.
- E. "Regulations": The term "regulations" includes laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, as well as rules, conventions, and agreements within the construction industry that control performance of the Work.
- F. "Furnish": The term "furnish" means to supply and deliver to the Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- G. "Install": The term "install" describes operations at the Project site including the actual unloading, temporary storage, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- H. "Provide": The term "provide" means to furnish and install, complete and ready for the intended use.
- I. "Installer": An installer is the Contractor or another entity engaged by the Contractor, either as an employee, subcontractor, or contractor of lower tier, to perform a particular construction activity, including installation, erection, application, or similar operations. Installers are required to be experienced in the operations they are engaged to perform.
 - 1. The term "experienced," when used with the term "installer," means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with the special requirements indicated; and having complied with requirements of authorities having jurisdiction.

- 2. Trades: Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespersons of the corresponding generic name.
- 3. Assigning Specialists: Certain Sections of the Specifications require that specific construction activities shall be performed by specialists who are recognized experts in those operations. The specialists must be engaged for those activities, and their assignments are requirements over which the Contractor has no option. However, the ultimate responsibility for fulfilling contract requirements remains with the Contractor.
 - a. This requirement shall not be interpreted to conflict with enforcing building codes and similar regulations governing the Work. It is also not intended to interfere with local trade-union jurisdictional settlements and similar conventions.
- J. "Project site" is the space available to the Contractor for performing construction activities, either exclusively or in conjunction with others performing other work as part of the Project. The extent of the Project site is shown on the Drawings and may or may not be identical with the description of the land on which the Project is to be built.
- K. "Testing Agencies": A testing agency is an independent entity engaged to perform specific inspections or tests, either at the Project site or elsewhere, and to report on and, if required, to interpret results of those inspections or tests.

1.3 SPECIFICATION FORMAT AND CONTENT EXPLANATION

- A. Specification Format: These Specifications are organized into Divisions and Sections based on the 16division format and CSI/CSC's "MasterFormat" numbering system.
- B. Specification Content: These Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be interpolated as the sense requires. Singular words shall be interpreted as plural and plural words interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by the Contractor. At certain locations in the Section Text, subjective language is used for clarity to describe responsibilities that must be fulfilled indirectly by the Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

1.4 INDUSTRY STANDARDS

A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by

reference.

- B. Construction Standards: All Work shall conform to the standards described in this project manual and shall not be less stringent than the following standards:
 - 1. S.R.E.F., 2010
 - 2. Florida Building Code, Building: 2014
 - 3. Florida Building Code Plumbing: 2014
 - 4. Florida Building Code Mechanical: 2014
 - 5. NFPA 2010
- C. Publication Dates: Comply with standards in effect as of the date of the Building Permit Application.
- D. Conflicting Requirements: Where compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to the Architect for a decision before proceeding.
 - 1. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of the requirements. Refer uncertainties to the Architect for a decision before proceeding.
- E. Copies of Standards: Each entity engaged in construction on the Project must be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, the Contractor shall obtain copies directly from the publication source and make them available on request.
- F. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. The following abbreviations and acronyms, as referenced in the Contract Documents, mean the associated names. Names and addresses are subject to change and are believed, but are not assured, to be accurate and up-to-date as of the date of the Contract Documents.

| AA | Aluminum Association 900 19th St., NW, Suite 300 Washington, DC 20006 www.aluminum.org | (202) 862-5100 |
|------|---|----------------|
| AABC | Associated Air Balance Council 1518 K St., NW, Suite 503 Washington, DC 20005 www.aabchq.com | (202) 737-0202 |
| AAMA | American Architectural Manufacturers Association 1827 Walden Office Sq., Suite 104 Schaumburg, IL 60173-4268 | (847) 303-5664 |

| | www.aamanet.org | |
|-------|--|----------------------------------|
| AATCC | American Association of Textile Chemists and Colorists P.O. Box 12215 One Davis Dr. Research Triangle Park, NC 27709-2215 www.aatcc.org | (919) 549-8141 |
| ACI | American Concrete Institute P.O. Box 9094 Farmington Hills, MI 48333-9094 www.aci-int.org | (248) 848-3700 |
| ACIL | ACIL: The Association of Independent Scientific, Engineering, and Testing Firms 1629 K St., NW, Suite 400 Washington, DC 20006 www.acil.org | (202) 887-5872 |
| ADC | Air Diffusion Council 11 South LaSalle St., Suite 1400 Chicago, IL 60603 | (312) 201-0101 |
| AFPA | American Forest and Paper Association (Formerly: National Forest Products Association) 1111 19th St., NW, Suite 800 Washington, DC 20036 | (800) 878-8878 (202) 463-2700 |
| AI | Asphalt Institute Research Park Dr. P.O. Box 14052 Lexington, KY 40512-4052 www.asphaltinstitute.org | (606) 288-4960 |
| AIA | The American Institute of Architects 1735 New York Ave., NW Washington, DC 20006-5292 www.aia.org | (202) 626-7300 |
| AISC | American Institute of Steel Construction One East Wacker Dr., Suite 3100 Chicago, IL 60601-2001 | (800) 644-2400 (312) 670-2400 |
| AISI | American Iron and Steel Institute 1101 17th St., NW Washington, DC 20036-4700 | (202) 452-7100 |

| | www.steel.org | |
|------|---|----------------|
| AITC | American Institute of Timber Construction 7012 S. Revere Pkwy, Suite 140 Englewood, CO 80112 www.aitc-glulam.org | (303) 792-9559 |
| ALA | American Laminators Association (See LMA) | |
| ALSC | American Lumber Standards Committee P.O. Box 210 Germantown, MD 20875 | (301) 972-1700 |
| AMCA | Air Movement and Control Association International, Inc. 30 W. University Dr. Arlington Heights, IL 60004-1893 www.amca.org | (847) 394-0150 |
| ANLA | American Nursery and Landscape Association (Formerly: American Association of Nurserymen) 1250 Eye St., NW, Suite 500 Washington, DC 20005 | (202) 789-2900 |
| ANSI | American National Standards Institute 11 West 42nd St., 13th Floor New York, NY 10036-8002 www.ansi.org | (212) 642-4900 |
| APA | APA-The Engineered Wood Association (Formerly: American Plywood Association) P.O. Box 11700 Tacoma, WA 98411-0700 www.apawood.org | (206) 565-6600 |
| ARI | Air-Conditioning and Refrigeration Institute 4301 Fairfax Dr., Suite 425 Arlington, VA 22203 www.ari.org | (703) 524-8800 |
| ARMA | Asphalt Roofing Manufacturers Association Center Park 4041 Powder Mill Rd., Suite 404 Calverton, MD 20705 | (301) 231-9050 |

| ASC | Adhesive and Sealant Council 1627 K St., NW, Suite 1000 Washington, DC 20006-1707 | (202) 452-1500 |
|--------|--|----------------------------------|
| ASCA | Architectural Spray Coaters Association 230 W. Wells St., Suite 311 Milwaukee, WI 53203 | (414) 273-3430 |
| ASCE | American Society of Civil Engineers-World Headquarters 1801 Alexander Bell Dr. Reston, VA 20191-4400 www.asce.org | (800) 548-2723 (703) 295-6000 |
| ASHRAE | American Society of Heating, Refrigerating and Air- Conditioning Engineers 1791 Tullie Circle, NE Atlanta, GA 30329-2305 www.ashrae.org | (800) 527-4723 (404) 636-8400 |
| ASME | American Society of Mechanical Engineers 345 East 47th St. New York, NY 10017-2392 www.asme.org | (800) 434-2763 (212) 705-7722 |
| ASPE | American Society of Plumbing Engineers 3617 Thousand Oaks Blvd., Suite 210 Westlake Village, CA 91362-3649 | (805) 495-7120 |
| ASSE | American Society of Sanitary Engineering 28901 Clemens Rd. Westlake, OH 44145 www.asse-plumbing.org | (216) 835-3040 |
| ASTM | American Society for Testing and Materials 100 Barr Harbor Dr. West Conshohocken, PA 19428-2959 www.astm.org | (610) 832-9500 |
| FM | Factory Mutual System 1151 Boston-Providence Tnpk. P.O. Box 9102 Norwood, MA 02062-9102 www.factorymutual.com | (781) 762-4300 |

| GA | Gypsum Association 810 First St., NE, Suite 510 Washington, DC 20002 www.usg.com | (202) 289-5440 |
|--------|---|----------------------------------|
| MIA | Masonry Institute of America 2550 Beverly Blvd. Los Angeles, CA 90057 www.masonryinstitute.org | (213) 388-0472 |
| ML/SFA | Metal Lath/Steel Framing Association (A Division of the NAAMM) 8 South Michigan Ave., Suite 1000 Chicago, IL 60603 | (312) 456-5590 |
| MRCA | Midwest Roofing Contractors Association 4840 W. 15th St., Suite 1000 Lawrence, KS 66049 | (800) 879-4448 (913) 843-4888 |
| MSS | Manufacturers Standardization Society of the Valve and Fittings Industry 127 Park St., NE Vienna, VA 22180-4602 | (703) 281-6613 |
| NAAMM | National Association of Architectural Metal Manufacturers 8 South Michigan Ave., Suite 1000 Chicago, IL 60603 www.gss.net/naamm | (312) 456-5590 |
| NCMA | National Concrete Masonry Association 2302 Horse Pen Rd. Herndon, VA 20171-3499 www.ncma.org | (703) 713-1900 |
| NFPA | National Fire Protection Association One Batterymarch Park P.O. Box 9101 Quincy, MA 02269-9101 www.nfpa.org | (800) 344-3555 (617) 770-3000 |
| NFPA | National Forest Products Association (See AFPA) | |
| NRCA | National Roofing Contractors Association O'Hare International Center 10255 W. Higgins Rd., Suite 600 | (800) 323-9545 (847) 299-9070 |

| | Rosemont, IL 60018-5607 www.roofonline.org | |
|--------|--|----------------------------------|
| PCA | Portland Cement Association 5420 Old Orchard Rd. Skokie, IL 60077-1083 www.portcement.org | (847) 966-6200 |
| RCMA | Roof Coatings Manufacturers Association Center Park 4041 Powder Mill Rd., Suite 404 Calverton, MD 20705 | (301) 230-2501 |
| SDI | Steel Deck Institute P.O. Box 25 Fox River Grove, IL 60021 www.sdi.org | (847) 462-1930 |
| SЛ | Steel Joist Institute 3127 10th Ave., North Ext. Myrtle Beach, SC 29577-6760 | (803) 626-1995 |
| SMACNA | Sheet Metal and Air Conditioning Contractors' National Association, Inc. 4201 Lafayette Center Dr. P.O. Box 221230 Chantilly, VA 20151-1209 www.smacna.org | (703) 803-2980 |
| SWRI | Sealant, Waterproofing and Restoration Institute 2841 Main Kansas City, MO 64108 | (816) 472-7974 |
| TIMA | Thermal Insulation Manufacturers Association (See NAIMA) | |
| UL | Underwriters Laboratories Inc. 333 Pfingsten Rd. Northbrook, IL 60062 www.ul.com | (800) 704-4050 (847) 272-8800 |
| WWPA | Western Wood Products Association Yeon Building 522 SW 5th Ave. Portland, OR 97204-2122 | (503) 224-3930 |

G. Federal Government Agencies: Names and titles of Federal Government standards- or specification-

producing agencies are often abbreviated. The following abbreviations and acronyms referenced in the Contract Documents indicate names of standards- or specification-producing agencies of the Federal Government. Names and addresses are subject to change and are believed, but are not assured, to be accurate and up-to-date as of the date of the Contract Documents.

| CE | Corps of Engineers (U.S. Department of the Army) 20 Massachusetts Ave., NW Washington, DC 20314 | (202) 761-0660 |
|------|--|----------------|
| | CRD standards are available from: U.S. Army Corps of Engineers Waterways Experiment Station Technical Report Distribution Section Services Branch, TIC 3909 Halls Ferry Rd. Vicksburg, MS 39180-6199 | (601) 634-2696 |
| CFR | Code of Federal Regulations (Available from the Government Printing Office) Washington, DC 20401 (Material is usually published first in the "Federal Register.") www.access.gpo.gov | (202) 512-0000 |
| CPSC | Consumer Product Safety Commission East West Towers 4330 East-West Hwy Bethesda, MD 20814 | (800) 638-2772 |
| CS | Commercial Standard (U.S. Department of Commerce) Government Printing Office Washington, DC 20402 | (202) 512-1800 |
| | For Commercial standards, contact: Ms. Brenda Umberger CS & PS Specialist c/o NIST Gaithersburg, MD 20899 | (301) 975-4036 |
| DOC | Department of Commerce 14th St. and Constitution Ave., NW Washington, DC 20230 | (202) 482-2000 |
| DOT | Department of Transportation 400 Seventh St., SW Washington, DC 20590 | (202) 366-4000 |
| EPA | Environmental Protection Agency 401 M St., SW Washington, DC 20460 | (202) 260-2090 |

| FSU | Federal Specification Unit (Available from GSA) 470 East L'Enfant Plaza, SW, Suite 8100 Washington, DC 20407 | (202) 619-8925 |
|------|--|----------------|
| GSA | General Services Administration F St. and 18th St., NW Washington, DC 20405 | (202) 708-5082 |
| MIL | Military Standardization Documents (U.S. Department of Defense) Defense Printing Service 700 Robbins Ave., Building 4D Philadelphia, PA 19111 | (215) 697-2179 |
| NIST | National Institute of Standards and Technology (U.S. Department of Commerce) Building 101, #A1134, Rte. I-270 and Quince Orchard Rd. Gaithersburg, MD 20899 | (301) 975-2000 |
| OSHA | Occupational Safety and Health Administration (U.S. Department of Labor) 200 Constitution Ave., NW Washington, DC 20210 | (202) 219-8148 |
| PS | Product Standard of NBS (U.S. Department of Commerce) Government Printing Office Washington, DC 20402 For Product standards, contact: | (202) 512-1800 |
| | Ms. Brenda Umberger CS & PS Specialist c/o NIST Gaithersburg, MD 20899 | (301) 975-4036 |

1.5 SUBMITTALS

A. Permits, Licenses, and Certificates: For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 42 10

SECTION 01 50 00 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes requirements for construction facilities and temporary controls, including temporary utilities, support facilities, and security and protection.
- B. Temporary utilities include, but are not limited to, the following:
 - 1. Water service and distribution.
 - 2. Temporary electric power and light.
 - 3. Ventilation.
 - 4. Telephone service.
 - 5. Sanitary facilities, including drinking water.
- C. Support facilities include, but are not limited to, the following:
 - 1. Field offices and storage sheds.
 - 2. Temporary enclosures.
 - 3. Hoists and temporary elevator use.
 - 4. Temporary project identification signs and bulletin boards.
 - 5. Waste disposal services.
 - 6. Construction aids and miscellaneous services and facilities.
- D. Security and protection facilities include, but are not limited to, the following:
 - 1. Temporary fire protection.
 - 2. Barricades, warning signs, and lights.
 - 3. Sidewalk bridge or enclosure fence for the site.
 - 4. Environmental protection.

1.3 QUALITY ASSURANCE

- A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
 - 1. The Hendry County School Board
 - 2 Building code requirements, including SREF, 1999.
 - 3 Health and safety regulations.
 - 4 Utility company regulations.
 - 5 Police, fire department, and rescue squad rules.

- 6 Environmental protection regulations.
- B. Standards: Comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities."
 - 1. Electrical Service: Comply with NEMA, NECA, and UL standards and regulations for temporary electric service. Install service in compliance with NFPA 70 "National Electric Code."
- C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.
- D. Wind Resistance: All temporary offices, shops, and sheds shall be secured to the ground as required to resist the force form a 140 mph wind velocity.

1.4 PROJECT CONDITIONS

- A. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility. At the earliest feasible time, when acceptable to the Owner, change over from use of temporary service to use of permanent service.
- B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary services and facilities as the Work progresses. Do not overload facilities or permit them to interfere with progress. Take necessary fire-prevention measures. Do not allow hazardous, dangerous, or unsanitary conditions, or public nuisances to develop or persist on-site.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide new materials. If acceptable to the Architect, the Contractor may use undamaged, previously used materials in serviceable condition. Provide materials suitable for use intended.
- B. Lumber and Plywood: Comply with requirements in Division 6 Section "Rough Carpentry."
 - 1. For signs and directory boards, provide exterior-type, Grade B-B high-density concrete form overlay plywood of sizes and thicknesses indicated.
 - 2. For fences and vision barriers, provide minimum 3/8-inch- (9.5-mm-) thick exterior plywood.
 - 3. For safety barriers, sidewalk bridges, and similar uses, provide minimum 5/8-inch- (16-mm-) thick exterior plywood.
- C. Roofing Materials: Provide UL Class A standard-weight asphalt shingles or UL Class C mineral-surfaced roll roofing on roofs of job-built temporary offices, shops, and sheds.
- D. Paint: Comply with requirements of Division 9 Section "Painting."
 - 1. For job-built temporary offices, shops, sheds, fences, and other exposed lumber and plywood, provide exterior-grade acrylic-latex emulsion over exterior primer.
 - 2. For sign panels and applying graphics, provide exterior-grade alkyd gloss enamel over exterior primer.

- 3. For interior walls of temporary offices, provide 2 coats interior latex-flat wall paint.
- E. Tarpaulins: Provide waterproof, fire-resistant, UL-labeled tarpaulins with flame-spread rating of 15 or less. For temporary enclosures, provide translucent, nylon-reinforced, laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins.
- F. Water: Provide potable water approved by local health authorities.
- G. Open-Mesh Fencing: Provide 0.120-inch- (3-mm-) thick, galvanized 2-inch (50-mm) chainlink fabric fencing 6 feet (2 m) high and galvanized steel pipe posts, 1-1/2 inches (38 mm) I.D. for line posts and 2-1/2 inches (64 mm) I.D. for corner posts.

2.2 EQUIPMENT

- A. General: Provide new equipment. If acceptable to the Architect, the Contractor may use undamaged, previously used equipment in serviceable condition. Provide equipment suitable for use intended.
- B. Water Hoses: Provide 3/4-inch (19-mm), heavy-duty, abrasion-resistant, flexible rubber hoses 100 feet (30 m) long, with pressure rating greater than the maximum pressure of the water distribution system. Provide adjustable shutoff nozzles at hose discharge.
- C. Electrical Outlets: Provide properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-Volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button, and pilot light for connection of power tools and equipment.
- D. Electrical Power Cords: Provide grounded extension cords. Use hard-service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
- E. Lamps and Light Fixtures: Provide general service incandescent lamps of wattage required for adequate illumination. Provide guard cages or tempered-glass enclosures where exposed to breakage. Provide exterior fixtures where exposed to moisture.
- F. Heating Units: Provide temporary heating units that have been tested and labeled by UL, FM, or another recognized trade association related to the type of fuel being consumed.
- G. Temporary Offices: Provide prefabricated or mobile units or similar job-built construction with lockable entrances, operable windows, and serviceable finishes. Provide heated and air-conditioned units on foundations adequate for normal loading.
- H. Temporary Toilet Units: Provide self-contained, single-occupant toilet units of the chemical, aerated recirculation, or combustion type. Provide units properly vented and fully enclosed with a glass-fiber-reinforced polyester shell or similar nonabsorbent material.
- I. Fire Extinguishers: Provide hand-carried, portable, UL-rated, Class A fire extinguishers for temporary offices and similar spaces. In other locations, provide hand-carried, portable, UL-rated, Class ABC, dry-chemical extinguishers or a combination of extinguishers of NFPA-recommended classes for the exposures.
 - 1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by

location and class of fire exposure.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Engage the appropriate local utility company to install temporary service or connect to existing service. Where company provides only part of the service, provide the remainder with matching, compatible materials and equipment. Comply with company recommendations. The cost of all utilities will be by the Owner.
 - 1. Arrange with company and existing users for a time when service can be interrupted, if necessary, to make connections for temporary services.
 - 2. Provide adequate capacity at each stage of construction. Prior to temporary utility availability, provide trucked-in services.
 - 3. Obtain easements to bring temporary utilities to the site where the Owner's easements cannot be used for that purpose.
 - 4. Use Charges: Cost or use charges for temporary facilities are not chargeable to the Owner or Architect. Neither the Owner nor Architect will accept cost or use charges as a basis of claims for Change Orders.
- B. Water Service: Install water service and distribution piping of sizes and pressures adequate for construction until permanent water service is in use.
 - 1. Sterilization: Sterilize temporary water piping prior to use.
- C. Temporary Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, overload-protected disconnects, automatic ground-fault interrupters, and main distribution switch gear.
 - 1. Install electric power service underground, except where overhead service must be used.
 - 2. Power Distribution System: Install wiring overhead and rise vertically where least exposed to damage. Where permitted, wiring circuits not exceeding 125 Volts, ac 20 Ampere rating, and lighting circuits may be nonmetallic sheathed cable where overhead and exposed for surveillance.
- D. Temporary Lighting: When overhead floor or roof deck has been installed, provide temporary lighting with local switching.

- 1. Install and operate temporary lighting that will fulfill security and protection requirements without operating the entire system. Provide temporary lighting that will provide adequate illumination for construction operations and traffic conditions.
- E. Temporary Telephones: Provide temporary telephone service throughout the construction period for all personnel engaged in construction activities. Install telephone on a separate line for each temporary office and first-aid station.
 - 1. At each telephone, post a list of important telephone numbers.
- F. Sanitary facilities include temporary toilets, wash facilities, and drinking-water fixtures. Comply with regulations and health codes for the type, number, location, operation, and maintenance of fixtures and facilities. Install where facilities will best serve the Project's needs.
 - 1. Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility. Provide covered waste containers for used material.
- G. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit-type privies will not be permitted.
 - 1. Provide separate facilities for male and female personnel.
- H. Wash Facilities: Install wash facilities supplied with potable water at convenient locations for personnel involved in handling materials that require wash-up for a healthy and sanitary condition. Dispose of drainage properly. Supply cleaning compounds appropriate for each condition.
 - 1. Provide safety showers, eyewash fountains, and similar facilities for convenience, safety, and sanitation of personnel.
- I. Drinking-Water Fixtures: Provide drinking-water fountains where indicated, including paper cup supply.
- J. Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

3.3 SUPPORT FACILITIES INSTALLATION

- A. Field Offices: This Contractor **may** provide and maintain within the staging area on the site a field office for his use.
 - 1. The field office shall be a commercial trailer, minimum size 8' x 28', designed and manufactured for use as a mobile field office. It shall be set up, blocked and tied down to resist 140 mph wind loading per ANSI A58.1, 182 and shall have sturdy, stable steps with OSHA standards for safe egress.
- B. Storage and Fabrication Sheds: Install storage and fabrication sheds sized, furnished, and equipped to accommodate materials and equipment involved, including temporary utility service. Sheds may be open shelters or fully enclosed spaces within the building or elsewhere on-site.
- C. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and

completed, from exposure, foul weather, other construction operations, and similar activities.

- 1. Install tarpaulins securely, with incombustible wood framing and other materials. Close openings of 25 sq. ft. (2.3 sq. m) or less with plywood or similar materials.
- 2. Close openings through floor or roof decks and horizontal surfaces with load-bearing, wood-framed construction.
- D. Temporary Lifts and Hoists: Provide facilities for hoisting materials and employees. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- E. Project Identification and Temporary Signs: Prepare project identification and other signs of size indicated. Install signs where indicated to inform the public and persons seeking entrance to the Project. Support on posts or framing of preservative-treated wood or steel. Do not permit installation of unauthorized signs.
 - 1. Project Identification Signs: Engage an experienced sign painter to apply graphics. Comply with details indicated.
 - 2. Temporary Signs: Prepare signs to provide directional information to construction personnel and visitors.
- F. Collection and Disposal of Waste: Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F (27 deg C). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material lawfully.
- G. Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate. Cover finished, permanent stairs with a protective covering of plywood or similar material so finishes will be undamaged at the time of acceptance.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Except for use of permanent fire protection as soon as available, do not change over from use of temporary security and protection facilities to permanent facilities until Substantial Completion, or longer, as requested by the Architect.
- B. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of the types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 10 "Standard for Portable Fire Extinguishers" and NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations."
 - 1. Place fire extinguishers on each roof level being worked upon while work is in progress.
 - 2. Store combustible materials in containers in fire-safe locations.
 - 3. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire-protection facilities, stairways, and other access routes for fighting fires. Prohibit smoking in hazardous fire-exposure areas.
 - 4. Provide supervision of welding operations, combustion-type temporary heating units, and similar sources of fire ignition.

- C. Barricades, Warning Signs, and Lights: Comply with standards and code requirements for erection of structurally adequate barricades. Paint with appropriate colors, graphics, and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed, provide lighting, including flashing red or amber lights.
- D. Enclosure Fence: Before excavation begins, install an enclosure fence with lockable entrance gates. Locate where indicated, or enclose the entire site or the portion determined sufficient to accommodate construction operations. Install in a manner that will prevent people, dogs, and other animals from easily entering the site, except by the entrance gates.
- E. Provide open-mesh, chainlink fencing with posts set in a compacted mixture of gravel and earth.
- F. Security Enclosure and Lockup: Install substantial temporary enclosure of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security.
 - 1. Storage: Where materials and equipment must be stored, and are of value or attractive for theft, provide a secure lockup. Enforce discipline in connection with the installation and release of material to minimize the opportunity for theft and vandalism.
- G. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways, and subsoil might be contaminated or polluted or that other undesirable effects might result. Avoid use of tools and equipment that produce harmful noise. Restrict use of noise-making tools and equipment to hours that will minimize complaints from persons or firms near the site.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.
- B. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
 - 2. Protection: Prevent water-filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.
- C. Termination and Removal: Unless the Architect requests that it be maintained longer, remove each temporary facility when the need has ended, when replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with the temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

END OF SECTION 01 50 00

SECTION 01 60 00 - MATERIALS AND EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing the Contractor's selection of products for use in the Project.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Reference Standards and Definitions" specifies the applicability of industry standards to products specified.
 - 2. Division 1 Section "Submittals" specifies requirements for submittal of the Contractor's Construction Schedule and the Submittal Schedule.
 - 3. Division 1 Section "Substitutions" specifies administrative procedures for handling requests for substitutions made after award of the Contract.

1.3 DEFINITIONS

- A. Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms are self-explanatory and have well-recognized meanings in the construction industry.
 - 1. "Products" are items purchased for incorporation in the Work, whether purchased for the Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - a. "Named Products" are items identified by the manufacturer's product name, including make or model number or other designation, shown or listed in the manufacturer's published product literature, that is current as of the date of the Contract Documents.
 - 2. "Materials" are products substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.
 - 3. "Equipment" is a product with operational parts, whether motorized or manually operated, that requires service connections, such as wiring or piping.

1.4 SUBMITTALS

- A. Product List: Prepare a list showing products specified in tabular form acceptable to the Architect. Include generic names of products required. Include the manufacturer's name and proprietary product names for each item listed.
 - 1. Coordinate product list with the Contractor's Construction Schedule and the Schedule of Submittals.
 - 2. Form: Prepare product list with information on each item tabulated under the following column headings:
 - a. Related Specification Section number.
 - b. Generic name used in Contract Documents.
 - c. Proprietary name, model number, and similar designations.
 - d. Manufacturer's name and address.
 - e. Supplier's name and address.
 - f. Installer's name and address.
 - g. Projected delivery date or time span of delivery period.
 - 3. Initial Submittal: Within 30 days after date of commencement of the Work, submit 3 copies of an initial product list. Provide a written explanation for omissions of data and for known variations from Contract requirements.
 - a. At the Contractor's option, the initial submittal may be limited to product selections and designations that must be established early in the Contract period.
 - 4. Completed List: Within 30 days after date of commencement of the Work, submit 3 copies of the completed product list. Provide a written explanation for omissions of data and for known variations from Contract requirements.
 - 5. Architect's Action: The Architect will respond in writing to Contractor within 2 weeks of receipt of the completed product list. No response within this period constitutes no objection to listed manufacturers or products but does not constitute a waiver of the requirement that products comply with Contract Documents. The Architect's response will include a list of unacceptable product selections, containing a brief explanation of reasons for this action.

1.5 QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same kind from a single source.
 - 1. When specified products are available only from sources that do not, or cannot, produce a quantity adequate to complete project requirements in a timely manner, consult with the Architect to determine the most important product qualities before proceeding. Qualities may include attributes, such as visual appearance, strength, durability, or compatibility. When a determination has been made, select products from sources producing products that possess these qualities, to the fullest extent possible.
- B. Compatibility of Options: When the Contractor is given the option of selecting between 2 or more products for use on the Project, the product selected shall be compatible with products previously selected, even if previously selected products were also options.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products according to the manufacturer's recommendations, using means and methods that will prevent damage, deterioration, and loss, including theft.
 - 1. Schedule delivery to minimize long-term storage at the site and to prevent overcrowding of construction spaces.
 - 2. Coordinate delivery with installation time to assure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
 - 3. Deliver products to the site in an undamaged condition in the manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
 - 4. Inspect products upon delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.
 - 5. Store products at the site in a manner that will facilitate inspection and measurement of quantity or counting of units.
 - 6. Store heavy materials away from the Project structure in a manner that will not endanger the supporting construction.
 - 7. Store products subject to damage by the elements above ground, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, new at the time of installation.
 - 1. Provide products complete with accessories, trim, finish, safety guards, and other devices and details needed for a complete installation and the intended use and effect.
 - 2. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.
- B. Product Selection Procedures: The Contract Documents and governing regulations govern product selection. Procedures governing product selection include the following:
 - 1. Proprietary Specification Requirements: Where Specifications name only a single product or manufacturer, provide the product indicated. No substitutions will be permitted.
 - 2. Semiproprietary Specification Requirements: Where Specifications name 2 or more products or manufacturers, provide 1 of the products indicated. No substitutions will be permitted.
 - a. Where Specifications specify products or manufacturers by name, accompanied by the term "or equal" or "or approved equal," comply with the Contract Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.
 - 3. Nonproprietary Specifications: When Specifications list products or manufacturers that are available and may be incorporated in the Work, but do not restrict the Contractor to use of these products only, the Contractor may propose any available product that complies with Contract requirements. Comply with Contract Document provisions concerning "substitutions" to obtain approval for use of an

unnamed product.

- 4. Descriptive Specification Requirements: Where Specifications describe a product or assembly, listing exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that provides the characteristics and otherwise complies with Contract requirements.
- 5. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements and are recommended by the manufacturer for the application indicated.
 - a. Manufacturer's recommendations may be contained in published product literature or by the manufacturer's certification of performance.
- 6. Compliance with Standards, Codes, and Regulations: Where Specifications only require compliance with an imposed code, standard, or regulation, select a product that complies with the standards, codes, or regulations specified.
- 7. Visual Matching: Where Specifications require matching an established Sample, the Architect's decision will be final on whether a proposed product matches satisfactorily.
 - a. Where no product available within the specified category matches satisfactorily and complies with other specified requirements, comply with provisions of the Contract Documents concerning "substitutions" for selection of a matching product in another product category.
- 8. Visual Selection: Where specified product requirements include the phrase "... as selected from manufacturer's standard colors, patterns, textures ..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The Architect will select the color, pattern, and texture from the product line selected.

PART 3 - EXECUTION

3.1 INSTALLATION OF PRODUCTS

- A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located and aligned with other Work.
 - 1. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

END OF SECTION 01 60 00

SECTION 01 63 10 - SUBSTITUTIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for handling requests for substitutions made after award of the Contract.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Reference Standards and Definitions" specifies the applicability of industry standards to products specified.
 - 2. Division 1 Section "Submittals" specifies requirements for submitting the Contractor's Construction Schedule and the Submittal Schedule.
 - 3. Division 1 Section "Materials and Equipment" specifies requirements governing the Contractor's selection of products and product options.

1.3 DEFINITIONS

- A. Definitions in this Article do not change or modify the meaning of other terms used in the Contract Documents.
- B. Substitutions: Changes in products, materials, equipment, and methods of construction required by the Contract Documents proposed by the Contractor after award of the Contract are considered to be requests for substitutions. The following are not considered to be requests for substitutions:
 - 1. Substitutions requested during the bidding period, and accepted by Addendum prior to award of the Contract, are included in the Contract Documents and are not subject to requirements specified in this Section for substitutions.
 - 2. Revisions to the Contract Documents requested by the Owner or Architect.
 - 3. Specified options of products and construction methods included in the Contract Documents.
 - 4. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

1.4 SUBMITTALS

A. Substitution Request Submittal: The Architect will consider requests for substitution if received within 10 days after commencement of the Work. Requests received more than 10 days after commencement of the

Work may be considered or rejected at the discretion of the Architect.

- 1. Submit 3 copies of each request for substitution for consideration. Submit requests in the form and according to procedures required for change-order proposals.
- 2. Identify the product or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers.
- 3. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:
 - a. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by the Owner and separate contractors, that will be necessary to accommodate the proposed substitution.
 - b. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements, such as performance, weight, size, durability, and visual effect.
 - c. Product Data, including Drawings and descriptions of products and fabrication and installation procedures.
 - d. Samples, where applicable or requested.
 - e. A statement indicating the substitution's effect on the Contractor's Construction Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on overall Contract Time.
 - f. Cost information, including a proposal of the net change, if any in the Contract Sum.
 - g. The Contractor's certification that the proposed substitution conforms to requirements in the Contract Documents in every respect and is appropriate for the applications indicated.
 - h. The Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of the failure of the substitution to perform adequately.
- 4. Architect's Action: If necessary, the Architect will request additional information or documentation for evaluation within one week of receipt of a request for substitution. The Architect will notify the Contractor of acceptance or rejection of the substitution within 2 weeks of receipt of the request, or one week of receipt of additional information or documentation, whichever is later. Acceptance will be in the form of a change order.
 - a. Use the product specified if the Architect cannot make a decision on the use of a proposed substitute within the time allocated.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Conditions: The Architect will receive and consider the Contractor's request for substitution when one or more of the following conditions are satisfied, as determined by the Architect. If the following conditions are not satisfied, the Architect will return the requests without action except to record noncompliance with these requirements.
 - 1. Extensive revisions to the Contract Documents are not required.
 - 2. Proposed changes are in keeping with the general intent of the Contract Documents.
 - 3. The request is timely, fully documented, and properly submitted.

- 4. The specified product or method of construction cannot be provided within the Contract e Architect will not consider the request if the product or method cannot be provided as a result of failure to pursue the Work promptly or coordinate activities properly.
- 5. The requested substitution offers the Owner a substantial advantage, in cost, time, energy conservation, or other considerations, after deducting additional responsibilities the Owner must assume. The Owner's additional responsibilities may include compensation to the Architect for redesign and evaluation services, increased cost of other construction by the Owner, and similar considerations.
- 6. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be approved.
- 7. The specified product or method of construction cannot be provided in a manner that is compatible with other materials and where the Contractor certifies that the substitution will overcome the incompatibility.
- 8. The specified product or method of construction cannot be coordinated with other materials and where the Contractor certifies that the proposed substitution can be coordinated.
- 9. The specified product or method of construction cannot provide a warranty required by the Contract Documents and where the Contractor certifies that the proposed substitution provides the required warranty.
- B. The Contractor's submittal and the Architect's acceptance of Shop Drawings, Product Data, or Samples for construction activities not complying with the Contract Documents do not constitute an acceptable or valid request for substitution, nor do they constitute approval.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01 63 10

SECTION 01 70 00 - CONTRACT CLOSEOUT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout including, but not limited to, the following:
 - 1. Inspection procedures.
 - 2. Project record document submittal.
 - 3. Operation and maintenance manual submittal.
 - 4. Submittal of warranties.
 - 5. Final cleaning.
- B. Closeout requirements for specific construction activities are included in the appropriate Sections in Divisions 2 through 16.

1.3 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.
 - 1. In the Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed, show 100 percent completion for the portion of the Work claimed as substantially complete.
 - a. Include supporting documentation for completion as indicated in these Contract Documents and a statement showing an accounting of changes to the Contract Sum.
 - b. If 100 percent completion cannot be shown, include a list of incomplete items, the value of incomplete construction, and reasons the Work is not complete.
 - 2. Advise the Owner of pending insurance changeover requirements.
 - 3. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
 - 4. Obtain and submit releases enabling the Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 5. Submit record drawings, maintenance manuals, final project photographs, damage or settlement surveys, property surveys, and similar final record information.
 - 6. Deliver tools, spare parts, extra stock, and similar items.
 - 7. Complete startup testing of systems and instruction of the Owner's operation and maintenance

personnel. Discontinue and remove temporary facilities from the site, along with mockups, construction tools, and similar elements.

- 8. Complete final cleanup requirements, including touchup painting.
- 9. Touch up and otherwise repair and restore marred, exposed finishes.
- B. Inspection Procedures: On receipt of a request for inspection, the Architect will either proceed with inspection or advise the Contractor of unfilled requirements. The Architect will prepare the Certificate of Substantial Completion following inspection or advise the Contractor of construction that must be completed or corrected before the certificate will be issued.
 - 1. The Architect will repeat inspection when requested and assured that the Work is substantially complete.
 - 2. Results of the completed inspection will form the basis of requirements for final acceptance.

1.4 FINAL ACCEPTANCE

- A. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.
 - 1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include insurance certificates for products and completed operations where required.
 - 2. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 - 3. Submit a certified copy of the Architect's final inspection list of items to be completed or corrected, endorsed and dated by the Architect. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance and shall be endorsed and dated by the Architect.
 - 4. Submit consent of surety to final payment.
 - 5. Submit a final liquidated damages settlement statement.
 - 6. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Reinspection Procedure: The Architect will reinspect the Work upon receipt of notice that the Work, including inspection list items from earlier inspections, has been completed, except for items whose completion is delayed under circumstances acceptable to the Architect.
 - 1. Upon completion of reinspection, the Architect will prepare a certificate of final acceptance. If the Work is incomplete, the Architect will advise the Contractor of Work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
 - 2. If necessary, reinspection will be repeated.

1.5 RECORD DOCUMENT SUBMITTALS

- A. General: Do not use record documents for construction purposes. Protect record documents from deterioration and loss in a secure, fire-resistant location. Provide access to record documents for the Architect's reference during normal working hours.
- B. Record Drawings: Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark which drawing is most capable of showing conditions fully and accurately. Where Shop Drawings are used, record a cross-reference at the corresponding location on the

Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

- 1. Mark record sets with red erasable pencil. Use other colors to distinguish between variations in separate categories of the Work.
- 2. Mark new information that is important to the Owner but was not shown on Contract Drawings or Shop Drawings.
- 3. Note related change-order numbers where applicable.
- 4. Organize record drawing sheets into manageable sets. Bind sets with durable-paper cover sheets; print suitable titles, dates, and other identification on the cover of each set.
- C. Record Specifications: Maintain one complete copy of the Project Manual, including addenda. Include with the Project Manual one copy of other written construction documents, such as Change Orders and modifications issued in printed form during construction.
 - 1. Mark these documents to show substantial variations in actual Work performed in comparison with the text of the Specifications and modifications.
 - 2. Give particular attention to substitutions and selection of options and information on concealed construction that cannot otherwise be readily discerned later by direct observation.
 - 3. Note related record drawing information and Product Data.
 - 4. Upon completion of the Work, submit record Specifications to the Architect for the Owner's records.
- D. Record Product Data: Maintain one copy of each Product Data submittal. Note related Change Orders and markup of record drawings and Specifications.
 - 1. Mark these documents to show significant variations in actual Work performed in comparison with information submitted. Include variations in products delivered to the site and from the manufacturer's installation instructions and recommendations.
 - 2. Give particular attention to concealed products and portions of the Work that cannot otherwise be readily discerned later by direct observation.
 - 3. Upon completion of markup, submit complete set of record Product Data to the Architect for the Owner's records.
- E. Record Sample Submitted: Immediately prior to Substantial Completion, the Contractor shall meet with the Architect and the Owner's personnel at the Project Site to determine which Samples are to be transmitted to the Owner for record purposes. Comply with the Owner's instructions regarding delivery to the Owner's Sample storage area.
- F. Miscellaneous Record Submittals: Refer to other Specification Sections for requirements of miscellaneous record keeping and submittals in connection with actual performance of the Work. Immediately prior to the date or dates of Substantial Completion, complete miscellaneous records and place in good order. Identify miscellaneous records properly and bind or file, ready for continued use and reference. Submit to the Architect for the Owner's records.
- G. Maintenance Manuals: Organize operation and maintenance data into suitable sets of manageable size. Bind properly indexed data in individual, heavy-duty, 2-inch (51-mm), 3-ring, vinyl-covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder. Include the following types of information:
 - 1. Emergency instructions.
 - 2. Spare parts list.

- 3. Copies of warranties.
- 4. Wiring diagrams.
- 5. Recommended "turn-around" cycles.
- 6. Inspection procedures.
- 7. Shop Drawings and Product Data.
- 8. Fixture lamping schedule.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 CLOSEOUT PROCEDURES

- A. Operation and Maintenance Instructions: Arrange for each Installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. Provide instruction by manufacturer's representatives if installers are not experienced in operation and maintenance procedures. Include a detailed review of the following items:
 - 1. Maintenance manuals.
 - 2. Record documents.
 - 3. Spare parts and materials.
 - 4. Tools.
 - 5. Lubricants.
 - 6 Identification systems.
 - 7. Control sequences.
 - 8. Hazards.
 - 9. Cleaning.
 - 10. Warranties and bonds.
 - 11. Maintenance agreements and similar continuing commitments.
- B. As part of instruction for operating equipment, demonstrate the following procedures:
 - 1. Startup.
 - 2. Shutdown.
 - 3. Emergency operations.
 - 4. Noise and vibration adjustments.
 - 5. Safety procedures.
 - 6. Economy and efficiency adjustments.
 - 7. Effective energy utilization.
- 3.2 FINAL CLEANING
 - A. General: The General Conditions require general cleaning during construction. Regular site cleaning is included in Division 1 Section "Construction Facilities and Temporary Controls."
 - B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. Comply with manufacturer's instructions.

- 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion.
 - a. Remove labels that are not permanent labels.
 - b. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.
 - c. Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of stains, films, and similar foreign substances. Restore reflective surfaces to their original condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.
 - d. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication and other substances. Clean plumbing fixtures to a sanitary condition. Clean light fixtures and lamps.
 - e. Clean the site, including landscape development areas, of rubbish, litter, and other foreign substances. Sweep paved areas broom clean; remove stains, spills, and other foreign deposits. Rake grounds that are neither paved nor planted to a smooth, even-textured surface.
- C. Removal of Protection: Remove temporary protection and facilities installed for protection of the Work during construction.
- D. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from the site and dispose of lawfully.
 - 1. Where extra materials of value remain after completion of associated Work, they become the Owner's property. Dispose of these materials as directed by the Owner.

END OF SECTION 01 70 00

SECTION 02 41 19 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Demolition and removal of selected roof components.
 - 3. Salvage of existing items to be reused or recycled.

1.2 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
 - 1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.3 PRECONSTRUCTION MEETING

A. Preconstruction Meeting: Conduct meeting at Project site.

1.4 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of selective demolition activities with starting and ending dates for each activity.
- C. Predemolition photographs or video.

1.5 CLOSEOUT SUBMITTALS

A. Inventory of items that have been removed and salvaged.

1.6 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.7 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

- B. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- C. Inventory and record the condition of items to be removed and salvaged.

3.2 PREPARATION

A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Arrange to shut off utilities with utility companies.
 - 2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.4 **PROTECTION**

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - 4. Maintain fire watch during and for at least 4 hours after flame-cutting operations.
 - 5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - 6. Dispose of demolished items and materials promptly.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Removed and Salvaged Items:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers.
 - 3. Store items in a secure area until delivery to Owner.
 - 4. Transport items to Owner's storage area on-site designated by Owner.
 - 5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
 - 1. Clean and repair items to functional condition adequate for intended reuse.
 - 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 - 3. Protect items from damage during transport and storage.
 - 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

3.6 CLEANING

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 - 4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.
- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 41 19

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Provide technical data on wood preservative materials and application instructions.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
 - 1. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

- A. Grading Agency: Northeastern Lumber Manufacturers Association; NELMA (SGR).
- B. Sizes: Nominal sizes as indicated on drawings, Match existing sizes.
- C. Moisture Content: S-dry or MC19.

2.03 ACCESSORIES

- A. Fasteners and Anchors:
 - 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

2.04 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
 - 1. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

2.05 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

SECTION 06 15 00 - WOOD DECKING

PART 1 GENERAL

- 1.01 SUBMITTALS
 - A. Shop Drawings: Indicate deck framing system, loads and cambers, bearing details, and framed openings.
- 1.02 QUALITY ASSURANCE
 - A. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

PART 2 PRODUCTS

2.01 WOOD MATERIALS

- A. Timber Tongue and Groove Roof Decking: Comply with AWC WCD2.
- B. Lumber Decking: Fabricated to AWC WCD2.
 - 1. Species: Douglas Fir graded under SPIB (GR) rules as AITC Select quality.
 - 2. Size: Match existing deck size.
 - 3. Pattern: AITC standard beveled V-joint with single tongue and groove.
 - 4. Moisture Content: 19 percent, maximum.

2.02 ACCESSORIES

A. Fasteners and Anchors:1. Fastener Type and Finish: Hot-dipped galvanized steel.

2.03 WOOD TREATMENT

A. Factory-Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.

PART 3 EXECUTION

- 3.01 Installation Deck Board Clips
 - A. Install in accordance with manufacturer's written instructions.

3.02 INSTALLATION - BOARD DECKING

A. Install decking perpendicular to framing members, with ends staggered over firm bearing. On sloped surfaces, lay decking with tongue upward.

SECTION 07 01 50.19 - PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.01 PRICE AND PAYMENT PROCEDURES

- A. See Section 01 21 00 Allowances, for cash allowances affecting this section.
- B. See Section 01 22 00 Unit Prices, for additional unit price requirements.
- C. See Section 01 22 00 Unit Prices, for additional unit price requirements.
 - 1. Replace Existing Roof Wood Decking:
 - a. Basis of Measurement: By square foot.
 - b. Basis of Payment: Includes replacing decking with new material of same thickness

PART 2 PRODUCTS

2.01 COMPONENTS

- A. See the following sections for additional information on components relating to this work:
 - 1. Partial removal of existing roofing system in preparation for new roofing system in designated areas as indicated on drawings, see Section 07 51 00.
 - 2. Recovering of existing roofing system in preparation for entire new roofing system, see Section 07 51 00.
 - 3. Remove existing flashing and counterflashings in preparation for replacement of these materials as part of this work, see Section 07 62 00 for material requirements.

2.02 MATERIALS

1.

- A. Patching Materials: Provide necessary materials in accordance with requirements of existing roofing system.
- B. Temporary Roofing Protection Materials:
 - 1. Contractor's responsibility to select appropriate materials for temporary protection of roofing areas as determined necessary for this work.
 - 2. Plastic Sheeting: Provide polyethylene sheets; use weights to retain sheeting in position.
- C. Roofing Recover Materials:
 - Fiber-Reinforced Gypsum Roof Board Panels: ASTM C1278/C1278M, water-resistant.
 - a. Board Size: 4 ft by 4 ft
 - b. Board Thickness: 1/2 inch (12.7 mm).
 - c. Board Edges: Square.

PART 3 EXECUTION

3.01 MATERIAL REMOVAL

- A. Remove only existing roofing materials that can be replaced with new materials the same day.
- B. Remove metal counter flashings.
- C. Remove damaged portions of roofing membrane, perimeter base flashings, flashings around roof protrusions, pitch pans and pockets, insulation vents, and _____.
- D. Cut and lay flat any membrane blisters.
- E. Remove damaged insulation and fasteners, cant strips, and blocking.
- F. Repair existing wood deck surface to provide smooth working surface for new roof system.

3.02 INSTALLATION

A. Coordinate scope of this work with requirements for installation of new roofing system, see Section 07 51 00 for additional requirements.

SECTION 07 52 16 - STYRENE-BUTADIENE-STYRENE MODIFIED BITUMINOUS MEMBRANE ROOFING

PART 1 GENERAL

1.01 SUBMITTALSand

- A. Product Data: Provide manufacturer's catalog data for membrane and bitumen materials, cap sheets, interply sheets, base sheets, flashing materials, backer sheets, insulation, insulation fasteners, membrane fasteners, surfacing, insulation cover boards, deck cover boards, roof sealants, traffic pads, insulation adhesives, cold adhesives.
- B. Shop Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, setting plan for tapered insulation, and mechanical fastener layout.

1.02 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of this section with minimum three years documented experience, and approved by manufacturer.

1.03 FIELD CONDITIONS

A. Do not apply roofing membrane when environmental conditions are outside the ranges recommended by manufacturer.

1.04 WARRANTY

- A. Correct defective work within a 2-year period after Date of Substantial Completion.
- B. Provide manufacturer's, non-prorated, material and labor warranty covering leaks caused by faulty workmanship or material.
 - 1. Warranty Length: See warranty length in Part 2 roofing systems.

PART 2 PRODUCTS

1.

2.01 MANUFACTURERS

- A. SBS Modified Bituminous Membrane Roofing:
 - Siplast. (Substitutions: Submit spec data to Architect for review.)
 - a. Base Sheet; Parabase FS, mechanically attached at perimeter of Building only.
 - b. Base Ply: Paradiene 20 TG, torch applied.
 - c. Cap Sheet: Paradiene 30 FR TG, torch applied.
 - d. Flashing Finish Ply: Paradiene 40 FR TG, torch applied.

2.02 SBS MODIFIED BITUMINOUS MEMBRANE ROOFING SYSTEMS

- A. Roofing System Type 1: Buildings 4 (field only), 5, 7, and 8.
 - 1. Cap Sheet: Granulated surface dual reinforced torch grade membrane.
 - 2. Base Ply: Sand surface fiberglass reinforced torch grade membrane.
 - 3. Flashing Membrane: Same as cap sheet.
 - 4. Installation Method: Heat welding (torch).
 - 5. Recover Board: Gypsum-based cover board.
 - 6. Adhered over existing granulated roof assembly.
 - 7. Warranty Length: 20 years.
- B. Roofing System Type 2: Building 4 (Perimeter only.)
 - 1. Cap Sheet: Granulated surface dual reinforced torch grade membrane.
 - 2. Base Ply: Sand surface polyester reinforced torch grade membrane.
 - 3. Flashing Membrane: Same as cap sheet.
 - 4. Installation Method: Heat welding (torch).
 - 5. Cover Board: Gypsum-based cover board.
 - 6. Tapered Isocyanurate Insulation
 - 7. Existing Modifed Bitumen Roofing
 - 8. Deck Type: Asphaltic Base Sheet over existing and New Replaced Metal deck.
 - 9. Warranty Length: 20 years.

2.03 PERFORMANCE REQUIREMENTS

- A. Roof Covering Classification: Class A when tested per UL 790 or ASTM E108.
- B. Design Wind Speed: As indicated on drawings.
- C. Wind Uplift Design Criteria: In accordance with wind uplift forces calculated with ASCE 7.

2.04 SBS MODIFIED BITUMINOUS MEMBRANE MATERIALS

- A. Granulated Surface Dual-Reinforced Torch-Grade Membrane:
 - 1. Reference Standards Compliance: ASTM D6162/D6162M, Grade G.
 - 2. Product: Siplas
- B. Sand Surface Dual-Reinforced Torch-Grade Membrane:
 - 1. Reference Standards Compliance: ASTM D6162/D6162M Grade S.
 - 2. Product: Siplas.

2.05 ROOF INSULATION AND COVER BOARDS

- A. At perimeter of Roof 4 only: Polyisocyanurate Board Insulation: Closed-cell polyisocyanurate foam with black glass-reinforced mat laminated to faces, complying with ASTM C1289 Type II, Class 2.
 - 1. Grade 3: 25 psi (172 kPa), minimum compressive strength.
- B. Tapered Insulation: Match existing insulation.

C. Cover Board: Non-combustible, water-resistant gypsum core with embedded glass mat facers, pre-primed, complying with ASTM C1177/C1177M.
1. Size: 48 inches (1220 mm) by 48 inches (1220 mm), nominal.

2.06 ROOFING ACCESSORIES

- A. Asphalt Primer: In compliance with ASTM D41/D41M.
- B. Asphalt Primer: In compliance with ASTM D41/D41M.
- C. Asphalt: ASTM D312/D312M, Type IV.
- D. Flashing Sealant: High-build, liquid applied, waterproofing sealant.
- E. Liquid-Reinforced Flashing System: Single-component, elastomeric asphalt emulsion with polyester reinforcing fleece fabric fully embedded into resin.
- F. Cold Adhesive: Roofing cement complying with ASTM D3019/D3019M.
- G. Surfacing: Second coat of liquid reinforced flashing system and mineral granules to match adjacent SBS-modified bitumen cap sheet.
- H. Wood Nailers: See Section 06 10 00.
- I. Metal Roof Edging and Fascia: See Section 07 71 00.

PART 3 INSTALLATION

3.01 MEMBRANE INSTALLATION

- A. Apply base ply sheets and cap sheets in shingle fashion starting at low end of roof and proceeding upwards; apply base sheets in half-width starter rolls; apply caps sheets in full widths.
- B. Apply membranes; lap and seal edges and ends to permanently waterproof.
- C. Apply smooth, free from air pockets, wrinkles, fish-mouths, or tears. Ensure full bond of membrane to substrate.
- D. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up 8 inches (200 mm) minimum at vertical surfaces.
 - 2. Apply flexible flashing over membrane.
- E. Coat bleed-outs with granules that match membrane field color.
- 3.02 INSTALLATION BY HEAT WELDING (TORCH) METHOD
 - A. Heat weld sheets to substrate using roof membrane manufacturer's recommended methods.

- B. Perform heat fusing using roofing torch or automatic heat welding equipment in compliance with roofing manufacturer's instructions.
- C. Heat fuse sidelaps and endlaps of layers; ensure that no adhesive is applied in sidelaps or endlaps of any layer.

3.03 FLASHING AND ACCESSORIES INSTALLATION

- A. Install flashings, including laps, splices, joints, bonding, adhesion, and attachment, as required by membrane manufacturer's written instructions and details.
- B. Flashing at Curbs, Walls, and Other Vertical and Sloped Surfaces: Install weathertight flashing at walls, curbs, parapets, skylights, and other vertical and sloped surfaces that roofing membrane abuts; extend flashing at least 8 inches (200 mm) high above membrane surface.
- C. Flashing at Penetrations: Flash penetrations passing through membrane; make flashing seals directly to penetration.

SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SUBMITTALS

- A. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
- 1.02 QUALITY ASSURANCE
 - A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

PART 2 PRODUCTS

- 2.01 SHEET MATERIALS
 - A. Stainless Steel: ASTM A666, Type 304 alloy, soft temper, thick; smooth No. 4 Brushed finish.

2.02 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Form pieces in longest possible lengths.
- C. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- 2.03 GUTTER AND DOWNSPOUT FABRICATION
 - A. Gutters: SMACNA (ASMM) Rectangular profile.
 - B. Downspouts: Rectangular profile.
 - C. Accessories: Profiled to suit gutters and downspouts.
 - 1. Anchorage Devices: In accordance with SMACNA (ASMM) requirements.
 - 2. Gutter Supports: Brackets.
 - 3. Downspout Supports: Brackets.
 - D. Splash Pads: Precast concrete type, of size and profiles indicated; minimum 3,000 psi (21 MPa) at 28 days, with minimum 5 percent air entrainment.
 - E. Downspout Boots: Steel.

2.04 ACCESSORIES

- A. Slip Sheet: Rosin sized building paper.
- B. Concealed Sealants: Non-curing butyl sealant.
- C. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed.
- D. Asphalt Roof Cement: ASTM D4586/D4586M, Type I, asbestos-free.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Comply with drawing details.
- B. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- C. Exterior Flashing Receivers: Install in accordance with manufacturer's recommendations, and in proper relationship with adjacent construction, and as follows:
- D. Seal metal joints watertight.

SECTION 07 72 00 - ROOF ACCESSORIES

PART 1 GENERAL

1.01 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used.

1.02 WARRANTY

- A. See Section 01 78 00 Closeout Submittals for additional warranty requirements.
- B. Extended Correction Period: Correct defective work within 5-year period commencing on Date of Substantial Completion.

PART 2 PRODUCTS

2.01 ROOF CURBS

- A. Roof Curbs Mounting Assemblies: Factory fabricated hollow sheet metal construction, internally reinforced, and capable of supporting superimposed live and dead loads and designated equipment load with fully mitered and sealed corner joints welded or mechanically fastened, and integral counterflashing with top and edges formed to shed water.
 - 1. Applications: Roof curbs used for roof penetrations/openings as indicated on drawings.
 - 2. Sheet Metal Material:
 - a. Aluminum: 0.080 inch (2.03 mm) minimum thickness, with 3003 alloy, and H14 temper.
 - 1) Finish: Mill finish.
 - 3. Roofing Cants: Provide integral sheet metal roofing cants dimensioned to begin slope at top of roofing system at 1:1 slope; minimum cant height 4 inches (102 mm).
 - 4. Fabricate curb bottom and mounting flanges for installation directly on metal roof panel system to match slope and configuration of system.
 - a. Extend side flange to next adjacent roof panel seam and comply with seam configurations and seal connection, providing at least 6 inch (152 mm) clearance between curb and metal roof panel flange allowing water to properly flow past curb.
 - b. Where side of curb aligns with metal roof panel flange, attach fasteners on upper slope of flange to curb connection allowing water to flow past below fasteners, and seal connection.
 - c. Maintain at least 12 inch (305 mm) clearance from curb, and lap upper curb flange on underside of down sloping metal roof panel, and seal connection.
 - d. Lap lower curb flange overtop of down sloping metal roof panel and seal connection.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions, in manner that maintains roofing system weather-tight integrity.

SECTION 07 92 00 - JOINT SEALANTS

PART 1 GENERAL

1.01 Administrative Requirements

A. Preinstallation Meeting: Prior to commencing sealant and caulking work, schedule a meeting with representatives of all trades affected by the work, in order to review, discuss and agree upon methods and procedures to be used.

1.02 SUBMITTALS

- A. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 4. Substrates the product should not be used on.
 - 5. Substrates for which use of primer is required.
 - 6. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
- B. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
- C. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

PART 2 PRODUCTS

2.01 JOINT SEALANT APPLICATIONS

- A. Scope:
 - 1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.
 - a. Joints between different exposed materials.
- B. Exterior Joints:
 - 1. Type 1 As applicable for extent of joint movement and color selection for exterior conditions at perimeters of openings.
 - 2. Joints in sheet metal work.

2.02 JOINT SEALANTS - GENERAL

- A. General: Use sealant types at locations indicated on Drawings and as specified herein.
- B. Non-Staining Sealants: Don not use sealants that stain materials to which they are applied or in contact with. Porous and/or light-colored substrates must be previously tested for sealant compatibility and staining.
- C. Fast-Setting Sealant: Fast-setting/curing versions, or use of accelerating curing catalysts is permitted only where specifically accepted by Owner.

2.03 NONSAG JOINT SEALANTS

A. Type 1 - Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.

2.04 ACCESSORIES

- A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
- B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- C. Primers: Type recommended by sealant manufacturer to suit application; non-staining.

PART 3 EXECUTION

3.01 EXAMINATION

3.02 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Install bond breaker backing tape where backer rod cannot be used.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- E. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

SECTION 09 91 13 - EXTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Scope: Paint new wood deck and all existing wood deck at the perimeter of Building 4
- B. Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factoryapplied primers are not considered factory finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Concealed pipes, ducts, and conduits.

1.02 SUBMITTALS

- A. Product Data: Provide complete list of products to be used, with the following information for each:
 - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 - 2. MPI product number (e.g. MPI #47).
 - 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
 - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

- 3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
- 4. Supply each paint material in quantity required to complete entire project's work from a single production run.
- 5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- B. Volatile Organic Compound (VOC) Content:
 - 1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - 2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

2.03 PAINT SYSTEMS - EXTERIOR

- A. Paint E-OP Wood deck.
 - 1. Two top coats and one coat primer.
 - 2. Top Coat(s): Exterior Latex, High Performance Architectural; MPI #311 or 315.
 - 3. Top Coat Sheen:
 - a. Satin: MPI gloss level 4; use this sheen at all locations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 - 1. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

CONSTRUCTION DOCUMENTS CLEWISTON YOUTH DEVELOPMENT ACADEMY ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

SUPERINTENDENT: MICHAEL SWINDLE, SUPERINTENDENT

DISTRICT 5 - JON BASQUIN, CHAIRPERSON

DISTRICT 2 - PAUL SAMERDYKE, VICE CHAIRPERSON

SCHOOL BOARD MEMBERS:

475 E OSCEOLA AVE CLEWISTON, FL 33440

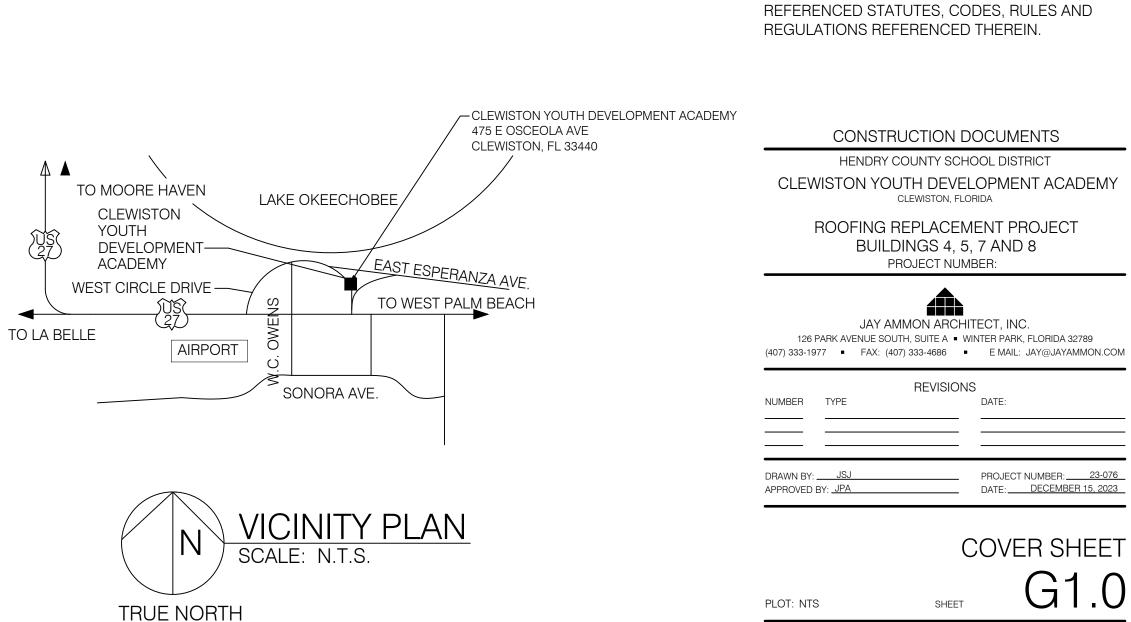


HENDRY COUNTY SCHOOL DISTRICT

DECEMBER 15, 2023

DRAWING INDEX

| SHEET NUMBER | SHEET TITLE | ORIGINAL DATE | REVISION NUMBER | REVISION DATE |
|-----------------|---|------------------|--------------------|------------------|
| G1.0 | COVER SHEET | 12/15/2023 | 0 | NA |
| G1.1 | SYMBOLS, ABBREVIATIONS AND CODE INFORMATION | 12/15/2023 | 0 | NA |
| G1.2 | GENERAL NOTES | 12/15/2023 | 0 | NA |
| G1.3 | SCOPE OF WORK | 12/15/2023 | 0 | NA |
| G1.4 | SITE PLAN | 12/15/2023 | 0 | NA |
| A1.0 | DEMOLITION ROOF PLAN | 12/15/2023 | 0 | NA |
| A1.1 | PROPOSED ROOF PLAN | 12/15/2023 | 0 | NA |
| A1.2 | WIND UPLIFT PRESSURE ROOF PLAN | 12/15/2023 | 0 | NA |
| A2.00 | PRODUCT SPECIFICATIONS | 12/15/2023 | 0 | NA |
| A2.01 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.02 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.03 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.04 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.10 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.20 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A2.21 | ROOF DETAILS | 12/15/2023 | 0 | NA |
| A3.0 | PHOTOGRAPHS | 12/15/2023 | 0 | NA |
| A3.1 | PHOTOGRAPHS | 12/15/2023 | 0 | NA |



STATEMENT OF COMPLIANCE

TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE 2020 (7TH ED), AND



DISTRICT 1 - DWAYNE E. BROWN, SCHOOL BOARD MEMBER

DISTRICT 3 - AMANDA NELSON, SCHOOL BOARD MEMBER DISTRICT 4 - STEPHANIE BUSIN, SCHOOL BOARD MEMBER

| ARCHI | TECTURAL ABBREVIATIONS | |
|-----------------------------|--|--------------------------|
| ACOUS. | ACOUSTICAL | MISC. |
| A/C | AIR CONDITIONING | M.R.GYP.BD. |
| A.T. A.F.F. | ACOUSTICAL TILE ABOVE FINISHED FLOOR | MTD. |
| ADJ. AL. | ADJUSTABLE ALTERNATE | NOM. |
| ALT. | ALTERNATE | N.I.C. |
| & | AND | NO. O₽ |
| APPROX. ARCH. | APPROXIAMTE ARCHITECTURAL | N.T.S. |
| A.D. | AREA DRAIN | O.C. |
| ASPH. | ASPHALT | OPNG. |
| @ | AT | OH. |
| L | ANGLE | OPH. O.D. |
| BM. B.M. | BEAM BENCH MARK | 0.2. |
| BIT. BLK. BD. | BITUMINOUS BLOCKING BOARD | PTD. PR. |
| BOT. | BOTTOM | PTN. |
| BLDG. | BUILDING | PVMT. |
| BLUC. B.U. B.R. | BUILT UP BACKER ROD | PLAS. PL. |
| CPT. C.B. | CARPET CATCH BASIN | POL. LBS. P.I.P. |
| CK. | CAULKING | PRE-FAB. |
| CLG. | CEILING | PC. CONC. |
| CEM. | CEMENT | P.T.D. |
| ©_ORCL. | CENTERLINE | P.LAM. |
| C.T. | CERAMIC TILE | PWD. |
| [OR CH. | CHANNEL | Æ OR P.L. |
| COL. CONC. | COLUMN CONCRETE CONCRETE MASONDY LINIT | Q. T. |
| C.M.U. CONT. C.J. | CONCRETE MASONRY UNIT CONTINUOUS CONTROL JOINT | RAD. |
| C.O.F. CONF. C.R. CH. | CONFERENCE COLD ROLL CHANNEL | REF. R.C.P. |
| DP. | DAMPPROOFING | REINF. |
| DET. | DETAIL | REQ. |
| DIA. DIM. | DIAMETER DIMENSION | RESIL. R. R.D. |
| DS. | DOWNSPOUT | RM. |
| DWGS. | DRAWINGS | Ø OR RD. |
| E. EA. | ELEVATOR EACH | R.B. |
| ELEC. | ELECTRICAL | S.N.D. |
| E.D.F. | ELECTRICAL DRINKING FOUNTAIN | SLT. |
| E.P. | ELECTRICAL PANELBOARD | SEC. |
| ELEV. | ELEVATION | SEC. GL. |
| EL. E.J. EQ. | ELEVATION EXPANSION JOINT EQUAL | S.H.M. SER. S. |
| EQUIP. | EQUIPMENT | SCHD. |
| EXP. | EXPANSION | SHT. |
| EXST. | EXISTING | S.V. |
| EXT. | EXTERIOR | SIM. |
| E.I.F.S. FIN. | EXTERIOR INSULATION & FINISH SYSTEM FINISH | S.D. S.C. SPEC. |
| FIN. FL. F.H.C. | FINISH FLOOR FIRE HOSE CABINET | SQ. SQ. SQ. FT. |
| F.H. | FIRE HYDRANT | STD. |
| F.E. | FIRE EXTINGUISHER | S.S. |
| F.E.C. | FIRE EXTINGUISHER CABINET | STL. |
| FL. | FLOOR | STOR. |
| F.D. | FLOOR DRAIN | ST. DR. |
| FTG. | FOOTING | STRUCT. |
| F.S. FURR GALV. | FULL SIZE FURRING GALVANIZED | SUSP. SYM. |
| GA. GL. | GAUGE GLASS | |
| G.B. GYP. | GRAB BAR GYPSUM | TEL. TEMP. GL. TH. |
| GYP.BD. | GYPSUM BOARD | T.P.H. |
| G.C. | GENERAL CONTRACTOR | T.C. |
| HCP. | HANDICAP | T.P. |
| HDWE. | HARDWARE | T.O.S. |
| HVAC. | HEATING/VENTILATING & AIR COND. | T.B. |
| HGT. | HEIGHT | T. |
| H.C. | HOLLOW CORE | TRTD. |
| H.M. | HOLLOW METAL | TYP. |
| HORIZ. H.B. | HORIZONTAL HOSE BIB | V.B. |
| I.D. | INSIDE DIAMETER (DIM.) | V.C.T. |
| INSUL. | INSULATION | V.W.C. |
| INT. | INTERIOR | VERT. |
| INV. | INVERT | VEST. |
| JAN. | JANITOR | W.H. W.P. |
| J.B. JT. | JOIST BEARING JOINT | W.W.M. |
| LAM. | LAMINATE | W. GL. |
| LAV. | LAVATORY | W/ |
| L.A.T. LT. WT. MTL. | LAY-IN-ACOUSTICAL TILE LIGHT WEIGHT METAL | W.C. W/O |
| MTL. | METAL | WSCT. |
| M.H. | MOP HANGER | WT. |
| MH. | MANHOLE | WD |

MAXIMUM

MECHANICAL

MEMBRANE MINIMUM

MANUFACTURER

MASONRY OPENING

MFG.

М.О.

MAX.

MECH.

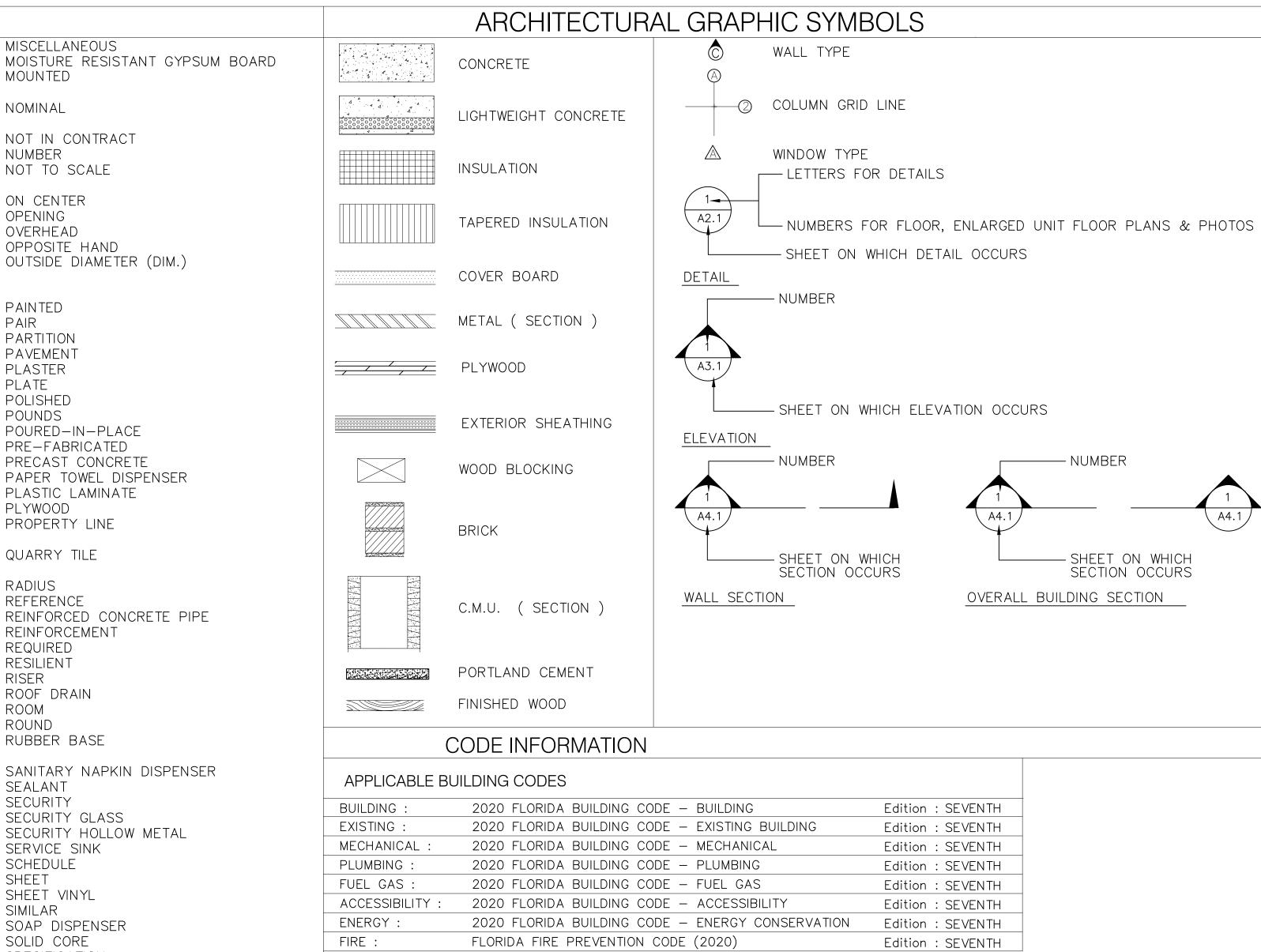
MEMB.

MIN.

MOUNTED NOMINAL NOT IN CONTRACT NUMBER NOT TO SCALE ON CENTER OPENING OVERHEAD OPPOSITE HAND OUTSIDE DIAMETER (DIM.) PAINTED PAIR PARTITION PAVEMENT PLASTER PLATE POLISHED POUNDS POURED-IN-PLACE PRE-FABRICATED PRECAST CONCRETE PAPER TOWEL DISPENSER PLASTIC LAMINATE PLYWOOD PROPERTY LINE QUARRY TILE RADIUS REFERENCE REINFORCED CONCRETE PIPE REINFORCEMENT REQUIRED RESILIENT RISER ROOF DRAIN ROOM ROUND RUBBER BASE SANITARY NAPKIN DISPENSER SEALANT SECURITY SECURITY GLASS SECURITY HOLLOW METAL SERVICE SINK SCHEDULE SHEET SHEET VINYL SIMILAR SOAP DISPENSER SOLID CORE SPECIFICATION SQUARE SQUARE FEET STANDARD STAINLESS STEEL STEEL STORAGE STORM DRAIN STRUCTURAL SUSPENDED SYMMETRICAL TELEPHONE TEMPERED GLASS THRESHOLD TOILET PAPER HOLDER TOP OF CURB TOP OF PAVEMENT TOP OF STEEL TOWEL BAR TREAD TREATED TYPICAL VINYL BASE VINYL COMPOSITION TILE VINYL WALL COVERING VERTICAL VESTIBULE WATER HEATER WATERPROOF WELDED WIRE MESH WIRE GLASS WITH WATER CLOSET WITHOUT WAINSCOT WEIGHT WOOD

WD.

MISCELLANEOUS



| CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA | | | | | |
|---|---|---|--|--|--|
| | ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER: | | | | |
| 126 PARK AVENUE | | ECT, INC. ITER PARK, FLORIDA 32789 E MAIL: JAY@JAYAMMON.COM | | | |
| NUMBER TYPE | REVISIONS | DATE: | | | |
| | | | | | |
| DRAWN BY: <u>JSJ</u> APPROVED BY: <u>JPA</u> | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 | | | |
| SYMB AND | OLS, ABE CODE IN | BREVIATIONS | | | |
| PLOT: NTS | SHEET | G1.1 | | | |

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT

A4.1

LETTER FOR DETAIL - NUMBER FOR SECTION A4.1-SHEET NUMBER - SHEET(S) WHERE REFERENCED FROM

DETAIL/WALL SECTION CROSS REFERENCE

SPECIFIC NOTES:

- **PERFORMANCE REQUIREMENTS:** THE CONTRACTOR SHALL BASE THE BID UPON PROVIDING A COMPLETE ROOF REPLACEMENT PROJECT AS REQUIRED TO PROVIDE ASSEMBLIES WHICH WILL REMAIN WATERTIGHT FOR A MINIMUM PERIOD OF 20 YEARS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS, PRIOR TO SUBMISSION OF THE BID.
- 2. **EXISTING CONDITIONS VERIFICATION:** THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, ROOF, WALL, SOFFIT AND METAL FLASHING ASSEMBLY CONSTRUCTION, ROOF AREA SIZES AND EXISTING EXTERIOR WALL ASSEMBLY MATERIALS AND DETAILS.
- COMPLIANCE WITH INDUSTRY STANDARDS: ALL WORK SHALL BE PERFORMED IN 3. ACCORDANCE WITH THE APPLICABLE DOCUMENT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, AND OTHER RECOGNIZED INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO, "THE NRCA "ROOFING MANUAL: MEMBRANE ROOF SYSTEMS - 2023", "THE NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING AND CONDENSATION CONTROL AND AIR LEAKAGE CONTROL - 2022", AND THE SMACNA "ARCHITECTURAL SHEET METAL MANUAL 7TH EDITION".
- 4. TYPICAL NOTES, SECTIONS AND DETAILS: NOTES, SECTIONS, AND DETAILS DESCRIBING REQUIRED WORK AT EACH COMPONENT ARE TYPICAL FOR ALL SIMILAR COMPONENTS AND THE NOTE, SECTION, OR DETAIL SHALL APPLY AS IF CALLED OUT SEPARATELY AT EACH LOCATION. THE DETAILS REFLECT A GENERAL DESIGN OF EACH DETAIL. THE CONTRACTOR SHALL MAKE ANY REQUIRED MODIFICATIONS TO THE GIVEN DETAILS NECESSARY TO MAKE THE DETAIL COMPATIBLE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT FOR ALL MODIFIED DETAILS BEFORE THE DETAILS ARE CONSTRUCTED.
- 5. **PATCHING:** PATCH ALL EXISTING COMPONENTS THAT ARE AFFECTED BY THE CONSTRUCTION WORK OF THIS PROJECT WHETHER OR NOT IDENTIFIED BY THE CONSTRUCTION DOCUMENTS TO BE PATCHED. PATCHING IS DEFINED AS: REPAIRING ALL EXISTING COMPONENTS INCLUDING BUT NOT LIMITED TO SUBSTRATE MATERIALS, STRUCTURAL COMPONENTS, AND FINISHES IN ACCORDANCE WITH INDUSTRY STANDARDS. ALL FINISHES AFFECTED BY THE CONSTRUCTION SHALL BE PATCHED TO MATCH ALL CHARACTERISTICS OF EXISTING ADJACENT MATERIALS INCLUDING BUT NOT LIMITED TO MATERIAL TYPE, FINISH TEXTURE, AND COLOR OF FINISH.
- MOCKUPS: PREPARE ONE IN-PLACE MOCKUP OF EACH NEW DETAIL TYPE. RECEIVE WRITTEN 6. APPROVAL FROM ALL MATERIAL MANUFACTURERS FOR PRODUCTS INCLUDED IN THE MOCKUP, FROM THE ARCHITECT. AND FROM THE OWNER PRIOR TO FURTHER APPLICATION OR INSTALLATION.
- **TESTING:** CONDUCT APPROPRIATE TESTS FOR EACH NEWLY INSTALLED COMPONENT. 7.
- 8. **NEW COMPONENTS:** ALL DEPICTED COMPONENTS ON DRAWINGS ARE NEW UNLESS IDENTIFIED AS EXISTING.

GENERAL NOTES:

A. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, IN WRITING, OF ALL EXISTING CONDITIONS WHICH ARE IN VARIANCE WITH THE CONDITIONS DOCUMENTED HEREIN. **B.** THE BUILDING MAY BE FULLY OR PARTIALLY OCCUPIED; CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF ALL PERSONS AT THE PROJECT SITE.

C. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN, INCLUDING ADJACENT ROOFS, WALLS, LANDSCAPE/VEGETATION, GROUNDS, EXTERIOR SURFACES AND THE INTERIOR OF THE BUILDING. THIS SHALL INCLUDE. BUT IS NOT LIMITED TO PAINT, WATER, DUST, DEBRIS AND PHYSICAL DAMAGE. ALL SURFACES SHALL BE RESTORED TO THEIR PRE-DAMAGE CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.

D. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL CODES AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

E. ALL DETAILS INDICATE MINIMUM INSTALLATION REQUIREMENTS. IF THE MANUFACTURER'S STANDARDS DETAILS ARE MORE STRINGENT, IN THE OPINION OF THE ARCHITECT, THEY SHALL GOVERN. IF THE DETAILS SHOWN ARE MORE STRINGENT THAN THE MANUFACTURER'S STANDARD DETAILS, IN THE OPINION OF THE ARCHITECT, THE DETAILS SHOWN SHALL GOVERN, REGARDLESS OF THE MANUFACTURER'S WILLINGNESS TO WARRANT / GUARANTY THE LESSER DETAIL. BY SUBMITTING A BID FOR THIS PROJECT. IT IS UNDERSTOOD THAT THE CONTRACTOR AND MANUFACTURER AGREE TO WARRANT / GUARANTY THE DETAILS SHOWN. THE ARCHITECT MAY, BUT IS NOT OBLIGATED TO, ACCEPT ANY PROPOSED CHANGES TO THE DETAILS SHOWN.

F. THE CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE AND WATERTIGHT JOB WHICH IS FULLY WARRANTED / GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED TO MEET MANUFACTURER'S WARRANTY / GUARANTY REQUIREMENTS, BUT NOT INDICATED BY THE CONTRACT DOCUMENTS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

G. ALL REFINISHING REQUIREMENTS, SHALL INCLUDE THE FOLLOWING:

REMOVE ALL RUST FROM METAL SURFACES AND APPLY COAT OF RUST INHIBITOR. REPLACE ALL METAL COMPONENTS WHICH ARE CORRODED THROUGH THE METAL. PRESSURE CLEAN ALL EXPOSED SURFACES. SECURE ALL LOOSE COMPONENTS WITH STAINLESS STEEL FASTENERS WHICH EXTEND INTO SOLID SUBSTRATE BELOW OR BEHIND COMPONENT BEING SECURED. CONCEAL FASTENER HEADS WITH MATERIAL WHICH MATCHES ADJACENT SURFACES. REPAINT ALL EXPOSED SURFACES TO MATCH EXISTING FINISHES.

H. LAYDOWN/STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.

I. PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT WORK SITE AND EXISTING CONSTRUCTION FOR POTENTIAL SAFETY HAZARDS. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT COURSE OF WORK. COMPLY WITH OSHA REQUIREMENTS.

J. BUILDING ACCESS IS RESTRICTED AND ALLOWED ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK. COORDINATE ANY REQUIRED ACCESS WITH THE OWNER.

K. SITE SHALL BE CLEANED AND SECURED ON A DAILY BASIS AT THE END OF EACH WORK SHIFT.

L. ALL COMPONENTS AND ASSEMBLIES SHALL MEET OR EXCEED UL STANDARDS FOR A CLASS A FIRE RATING.

M. THE FINISH OF ALL NEW COMPONENTS OR REPAIRED COMPONENTS SHALL MATCH ALL CHARACTERISTICS OF THE EXISTING COMPONENTS INCLUDING TEXTURE AND ALL OTHER QUALITIES.

N. PATCH ALL FINISHES AFFECTED BY THE WORK OF THIS PROJECT AS REQUIRED TO MATCH ALL CHARACTERISTICS OF EXISTING UNDAMAGED FINISHES.

GENERAL SCOPE OF WORK:

A. SEE SHEET G1.3 FOR DESCRIPTION OF WORK.

BUILDING PROTECTION NOTES:

A. THE BUILDING WILL REMAIN FUNCTIONAL THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTENTS AND OCCUPANTS.

B. THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAYS CONSTRUCTION AND WHEN INCLEMENT WEATHER THREATENS. C. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE BUILDING, EXTERIOR AND GROUNDS, AND ALL PROMENADE CONCRETE WITHIN THE PROJECT BOUNDARIES.

D. ANY SURFACES STAINED, MARKED, MARRED, OR DAMAGED BY THE CONTRACTOR SHALL BE RETURNED TO THE ORIGINAL CONDITION AND TO MATCH ADJACENT SURFACES. E. THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS OF THE SITE OR FACILITY TO THE ORIGINAL CONDITION.

F. THE SEQUENCE OF WORK SHALL MINIMIZE CONSTRUCTION TRAFFIC ON THE NEW WORK.

EXTERIOR RESTORATION NOTES:

A. FOR PURPOSES OF THIS PROJECT, REMOVE SHALL MEAN REMOVE AND DISPOSE OF IN AN APPROVED AND LEGAL MANNER.

B. CONTRACTOR SHALL VERIFY THE TOTAL NUMBER OF DETAIL CONDITIONS IN THE FIELD AND PERFORM NEW WORK IN ACCORDANCE WITH THE DETAIL REFERENCED OR THOSE WHICH ARE SIMILAR. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD. **C.** GENERAL DEMOLITION SCOPE: SEE SHEET G1.3.

D. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM CONSTRUCTION SITE AND DISPOSE OF IN A LEGAL MANNER.

E. DAMAGED OR DETERIORATED WALL SUBSTRATE UNCOVERED DURING DEMOLITION SHALL BE DOCUMENTED BY THE CONTRACTOR, REPORTED TO THE PROJECT MANAGER IN WRITING.

F. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING ROOF AND WALL MATERIALS AND METHODS OF INSTALLATION BEFORE THE START OF WORK. ANY DISCREPANCIES BETWEEN THE INFORMATION PROVIDED BY THE CONTRACT DOCUMENTS AND CONDITIONS ENCOUNTERED BY THE CONTRACTOR BEFORE THE START OF WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY ADDITIONAL LABOR OR MATERIALS DUE TO DIFFERING EXISTING CONDITIONS WHICH ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO THE START OF WORK.

G. THE CONTRACTOR SHALL REMOVE ALL EXISTING EXTERIOR CONDUIT, PIPING, LIGHTING FIXTURES, LIGHTNING PROTECTION SYSTEMS AND ANY OTHER ITEMS WHICH INTERFERE WITH THE INSTALLATION OF THE NEW EXTERIOR BUILDING ENVELOPE COMPONENTS AND OR RELATED WORK. ALL SUCH EQUIPMENT AND ITEMS SHALL BE TEMPORARILY RE-ROUTED AS NECESSARY IF IT IS REQUIRED TO STAY IN SERVICE. ANY ITEMS NOT REQUIRED TO STAY IN SERVICE AND WILL BE REINSTALLED AT THE COMPLETION OF THE WORK SHALL BE PROPERLY STORED BY THE CONTRACTOR UNTIL REINSTALLED. ALL WORK SHALL BE PERFORMED BY QUALIFIED, LICENSED CRAFTSMEN IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AT NO ADDITIONAL COST TO THE OWNER. ANY EXISTING WORK WHICH DOES NOT CONFORM TO APPLICABLE CURRENT CODES SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE REMOVAL.

| CONSTRUCTION | DOCUMENTS | | | |
|---|---|--|--|--|
| HENDRY COUNTY SC | CHOOL DISTRICT | | | |
| CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA | | | | |
| ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER: | | | | |
| JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM | | | | |
| REVISIC | DNS | | | |
| NUMBER TYPE | DATE: | | | |
| | | | | |
| | | | | |
| DRAWN BY: <u>JSJ</u> APPROVED BY: <u>JPA</u> | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 | | | |

GENERAL NOTES G1.2

| PLOT: | NTS |
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| | |

SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

1.0 GENERAL:

- 1.1 WIND RESISTANCE: ALL COMPONENTS SHALL BE INSTALLED TO RESIST ALL FORCES RESULTING FROM AN ULTIMATE DESIGN WIND IN ACCORDANCE WITH ASCE 7-16 AND TO MEET OR EXCEED REQUIREMENTS OF CHAPTER 16. FLORIDA BUILDING CODE 2020 (7TH ED.) WITH ALL ADOPTED AMENDMENTS AND CURRENT REVISIONS.
- 1.2 ENGINEERING: CONDUCT ADHESION TESTS OF COVER BOARD TO EXISTING ROOF MEMBRANE. CONDUCT PULL-OUT RESISTANCE TESTS OF EXISTING OR NEW WOOD DECK AT THE PERIMETER OF BUILDING 4. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER / ADHESIVE SPACING AT EACH ROOF ZONE. SUBMIT THE TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SUBMIT ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER TO VERIFY COMPLIANCE WITH THIS REQUIREMENT FOR EACH NEW COMPONENT. SEE DRAWINGS FOR WIND PRESSURES. SUBMIT THE FLORIDA PRODUCT APPROVAL FOR EACH ROOFING SYSTEM TO THE ARCHITECT FOR REVIEW.
- **1.3 SUBSTRATE PREPARATION:** REPLACE ALL DETERIORATED SUBSTRATE MATERIAL TO PROVIDE A PROPER SUBSTRATE FOR THE NEW ROOFING ASSEMBLY MATERIALS. PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY THE MANUFACTURER OF EACH NEW COMPONENT. REPLACE OR REPAIR ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS.
- **1.4 INTERIOR AND EXTERIOR PROTECTION:** PRIOR TO DEMOLITION, INSTALL PROTECTION OVER INTERIOR AND EXTERIOR SPACES AS REQUIRED TO PROTECT OCCUPANTS, BUILDING COMPONENTS, AND EQUIPMENT FROM WEATHER ELEMENTS AND CONSTRUCTION RELATED DEBRIS AND ACTIVITIES.
- **1.5 WEATHERPROOF ENCLOSURE:** APPLY WEATHERPROOF ROOF AND WALL COVERINGS OVER THE AREAS DESIGNATED FOR REPAIR AS REQUIRED TO PREVENT THE INTRUSION OF WEATHER ELEMENTS INTO THE BUILDING DURING THE CONSTRUCTION PROCESS.
- **1.6 HOUSEKEEPING:** THOROUGHLY CLEAN ALL CONSTRUCTION RELATED DEBRIS FROM ALL INTERIOR SURFACES, EXTERIOR SURFACES, AND SITE SURFACES ON A DAILY BASIS. ALL CONSTRUCTION EQUIPMENT, DEBRIS, AND NEW MATERIAL STORED ON THE SITE SHALL BE SECURED TO PREVENT WIND DISPLACEMENT.
- 1.7 SAFETY: PROVIDE ALL NECESSARY MEASURES TO ENSURE SAFETY TO BUILDING OCCUPANTS DURING THE PERIODS WHEN THE BUILDING IS OCCUPIED. PREVENT ACCESS TO THE CONSTRUCTION AREAS AND STAGING AREAS BY SIGNS, FENCES, AND OTHER BARRIERS. INSTALL A TEMPORARY BARRIER OVER THE TOP OF ALL ENTRANCES FOR A DISTANCE OF 10 FEET BEYOND THE ENTRANCE AS REQUIRED TO PROTECT PEDESTRIANS FROM FALLING DEBRIS.
- **1.8 WARRANTY:** SUBMIT A 5 YR. INSTALLERS LABOR WARRANTY AGAINST MATERIAL DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. SUBMIT A 20 YR., NO DOLLAR LIMIT, TOTAL SYSTEM EDGE TO EDGE MANUFACTURER'S WATERTIGHTNESS AND DEFECT WARRANTY FROM THE ROOFING MANUFACTURER UPON COMPLETION OF THE WORK.
- **1.9 TRADES:** ALL WORK SHALL BE PERFORMED BY CONTRACTORS LICENSED IN THEIR TRADES AND AS REQUIRED BY THE BUILDING DEPARTMENT OFFICIALS. THESE TRADES INCLUDE BUT ARE NOT LIMITED TO GENERAL CONTRACTORS, ROOFING CONTRACTORS, WATERPROOFING AND SEALANT CONTRACTORS AND MECHANICAL AND ELECTRICAL CONTRACTORS.
- 1.10 **PREPARATION GENERAL:** PREPARE ALL EXISTING SURFACES TO WHICH NEW OR REINSTALLED COMPONENTS ARE TO BE ATTACHED INCLUDING THE REPLACEMENT OR REPAIR OF ALL DAMAGED SURFACES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND RESISTANCE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. RECEIVE WRITTEN APPROVAL FROM THE MANUFACTURER OF THE NEW COMPONENTS INDICATING THAT THE PREPARATION IS ACCEPTABLE FOR THE APPLICATION OF THE COMPONENT. SUBMIT THE APPROVAL LETTERS TO THE ARCHITECT.
- **1.11 EXITS:** MAINTAIN ALL EXISTING EXITS FROM THE FACILITY. THE CONTRACTOR IS TO SUBMIT A TEMPORARY EGRESS PLAN TO THE
- BUILDING OFFICIAL. FOR ANY REVISED EGRESS PATH CHANGES DURING CONSTRUCTION 1.12 SUBMITTALS: PROVIDE ELECTRONIC SUBMITTALS TO THE ARCHITECT FOR ALL PRODUCTS USED IN THE PROJECT. SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO ROOF ADHESION AND PULL-TEST RESULTS, PRODUCT DATA, MSDS SHEETS, DELEGATED ENGINEERING AND SHOP DRAWINGS OF ALL DETAILS.
- 1.13 EXISTING CONDITIONS VERIFICATION: CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND INCLUDE ANY COSTS ASSOCIATED WITH THOSE EXISTING CONDITIONS WITHIN THEIR BASE BID.

2.0 ROOFING ASSEMBLY REPLACEMENT AND RECOVER - BUILDING 4:

- 2.1 DEMOLITION OF PERIMETER OF EXISTING ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED, AT THE PERIMETER OF BUILDING 4. REMOVE EXISTING ROOFING ASSEMBLY. INCLUDING THE ROOF MEMBRANES. FASTENERS AND INSULATION FROM THE TOP SURFACE OF THE EXISTING WOOD DECK. REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES, TRIM AND TRANSITION FLASHINGS. WHERE REQUIRED AT THE WOOD DECK REPLACEMENT, REMOVE EXISTING CONDUITS FROM THE UNDERSIDE OF WOOD DECK AND REINSTALL AFTER NEW ROOFING ASSEMBLY IS INSTALLED. USE STAINLESS STEEL FASTENERS AT ALL WOOD DECK ATTACHMENTS. REPLACE ANY DETERIORATED WOOD DECK. PROVIDE AN ALLOWANCE IN THE BASE BID FOR REPLACEMENT OF 200 SQUARE FEET OF WOOD DECK AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. AT THE EAST AND WEST ENDS OF THE OVERHANG, ANY WOOD DECK REPLACEMENT MAY REQUIRE ADDITIONAL ROOF ASSEMBLY REMOVAL TO ACCESS AN EXISTING BEAM FOR PROPER SUPPORT OF THE NEW WOOD DECK. INCLUDE AN ADDITIONAL 150 SQUARE FEET OF THE EXISTING ROOF ASSEMBLY REPLACEMENT IN BASE BID AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER FOR THE NEW WOOD DECK ATTACHMENT METHOD. EXISTING ROOF ASSEMBLY WAS REMOVED, MECHANICALLY ATTACH A 15 LB. FIBERGLASS ASPHALTIC BASE SHEET OVER ALL
- 2.2 NEW PERIMETER ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED AT THE PERIMETER OF BUILDING 4, WHERE EXISTING AND NEW WOOD DECK. INSTALL FLAT AND TAPERED POLYSOCYANURATE INSULATION OVER THE EXISTING AND NEW REPLACED WOOD DECK, MATCHING THE ADJACENT THICKNESS OF EXISTING ROOF INSULATION. MECHANICALLY ATTACH A COVER BOARD THROUGH THE NEW INSULATION AND INTO THE EXISTING OR REPLACED WOOD DECK MATCHING THE ADJACENT THICKNESS OF THE EXISTING ROOF COVER BOARD. FASTENERS ARE NOT TO PENETRATE THE UNDERSIDE OF THE EXISTING OR NEW WOOD DECK. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD AND OVERLAP THE EXISTING ROOFING ASSEMBLY A MINIMUM OF 12 INCHES. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE
- PLY. 2.3 NEW FINAL RECOVER ROOFING ASSEMBLY AT BUILDING 4: INSTALL A NEW 4' X 4' X 1/4" COVER BOARD OVER THE NEW PERIMETER ROOFING ASSEMBLY AND EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 2.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 3.0 ROOFING ASSEMBLY RECOVER BUILDING 5:
- 3.1 DEMOLITION: REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES, TRIM AND TRANSITION FLASHINGS. 3.2 NEW FINAL RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4' X 4' X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- **3.3 BASE FLASHINGS BUILDING 5:** WHERE DESIGNATED, MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. OVER ALL GYPSUM-FIBER COVER BOARD, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTER PLY OVER THE COVER BOARD.
- **3.4 METAL FLASHINGS:** FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.

- 4.0 ROOFING ASSEMBY RECOVER BUILDINGS 7 AND 8:
- **4.1 DEMOLITION:** REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO COPINGS, EDGES, TRANSITION FLASHINGS AND GUTTERS.
- 4.2 NEW RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4' X 4' X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- **4.3 BASE FLASHINGS:** MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. INSTALL A GYPUSM-FIBER COVER BOARD UP ALL OTHER ADJACENT VERTICAL SURFACES. OVER ALL GYPSUM-FIBER COVER BOARD INSTALLED, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTER PLY OVER THE COVER BOARDS.
- **4.4 METAL FLASHINGS:** FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 4.5 ROOF DRAINAGE: WHERE DESIGNATED, INSTALL NEW STAINLESS STEEL GUTTERS AND DOWNSPOUTS. FABRICATE AND INSTALL STAINLESS STEEL GUTTERS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS.

5.0 ROOF MOUNTED EQUIPMENT - BUILDING 7:

- 5.1 ROOF MOUNTED EQUIPMENT TO REMAIN: REINSTALL ALL EXISTING ROOF MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT OVER NEW EQUIPMENT CURBS. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA. REROUTE AND RECONNECT ALL ELECTRICAL, PLUMBING, CHILLED WATER OR REFRIGERANT LINES, AND ALL OTHER CONNECTIONS REQUIRED FOR THE EQUIPMENT TO FUNCTION PROPERLY. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT.
- 5.2 TRAFFIC PADS: INSTALL ROOF TRAFFIC PADS OF CONTRASTING COLOR RECOMMENDED BY THE ROOF MEMBRANE MANUFACTURER FROM ALL ROOF ACCESS POINTS, BETWEEN ALL EQUIPMENT, AND AROUND ALL MECHANICAL EQUIPMENT THAT REQUIRES SERVICING. INSTALL 2 INCH DRAINAGE SLOTS BETWEEN EACH ROOF TRAFFIC PAD AS REQUIRED BY THE MANUFACTURER.
- 5.3 CONDENSATE LINE STANDS: INSTALL CONDENSATE LINES OVER NEW NON-PENETRATING PIPE SUPPORTS AT 4'-0" O.C. INSTALL CONDENSATE LINE STANDS OVER EQUIPMENT MEMBRANE PADS THAT ARE APPLIED OVER THE FINISHED ROOF MEMBRANE. EXTEND THE EQUIPMENT MEMBRANE PADS A MINIMUM OF 2 INCHES BEYOND ALL EDGES OF THE SUPPORT. 5.4 GOOSENECK VENT FLASHINGS: INSTALL NEW STAINLESS STEEL GOOSENECK VENT FLASHINGS WITH ALL SOLDERED/WELDED NON-MOVING JOINTS OVER NEW EQUIPMENT CURBS ATTACHED TO THE EXISTING DECK.
- 6.0 PLUMBING VENT FLASHINGS: EXISTING PLUMBING VENTS ARE TO REMAIN. WHERE DESIGNATED, REMOVE EXISTING PLUMBING VENT FLASHINGS AND INSTALL NEW LIQUID-APPLIED FLASHING, APPROVED BY ROOF MEMBRANE MANUFACTURER, TIEING INTO NEW ROOFING ASSEMBLY.

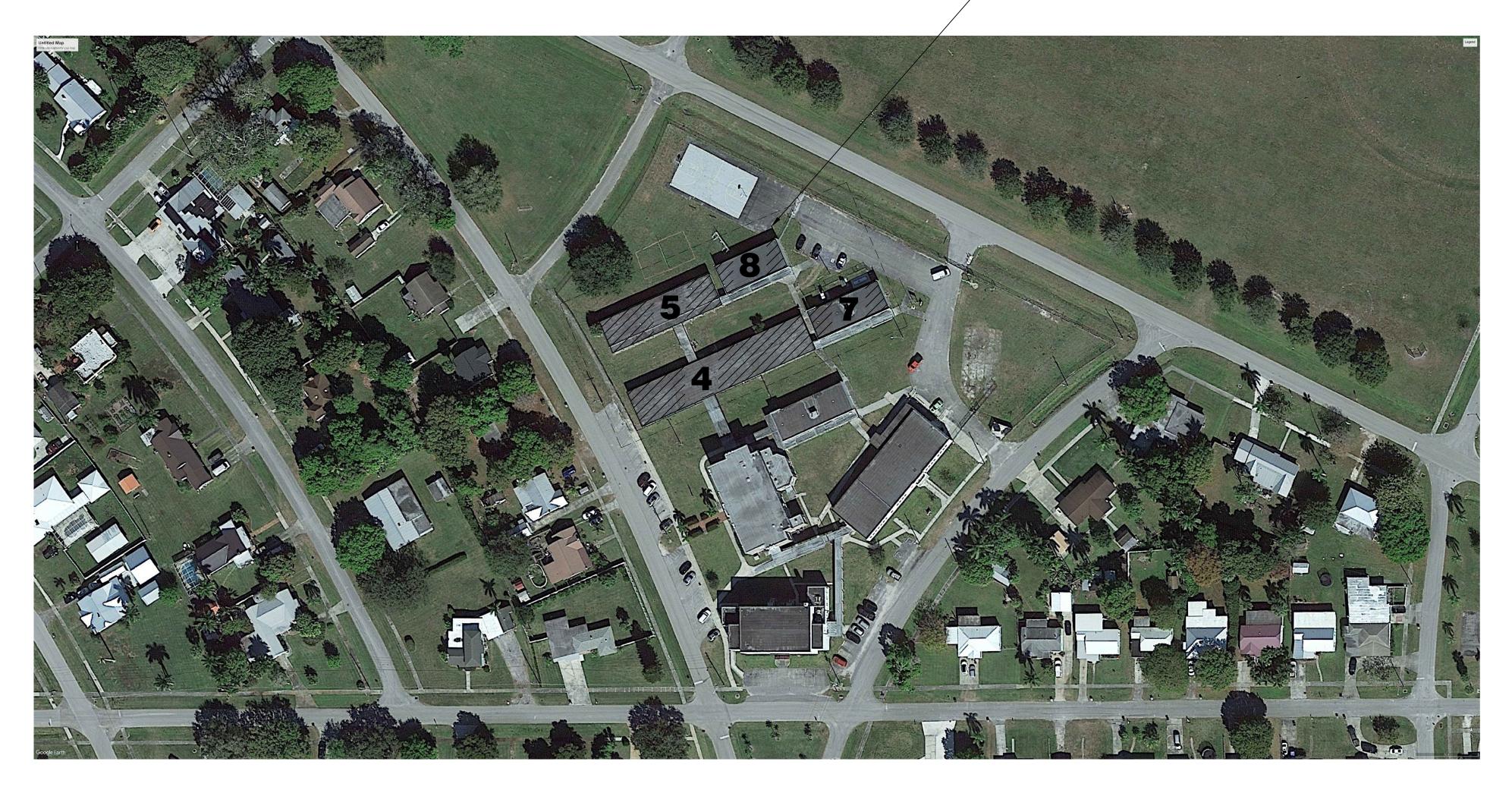
7.0 ALTERNATE 1 - BUILDINGS 4 AND 5:

7.1 GUTTERS AND DOWNSPOUTS: INSTALL STAINLESS STEEL GUTTERS AND DOWNSPOUTS AROUND THE PERIMETER OF THE BUILDINGS. DOWNSPOUTS ARE TO BE INSTALLED AT 24' O.C. AND ATTACHED TO EXISTING COLUMNS. TWO DOWNSPOUTS ARE TO BE INSTALLED ON EACH SIDE OF THE EAST AND WEST SIDES OF THE BUILDINGS.

| CONSTRUCTION D | OCUMENTS | |
|---|---|--|
| HENDRY COUNTY SCHO | DOL DISTRICT | |
| CLEWISTON YOUTH DEVEL CLEWISTON, FLOR | | |
| ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER: | | |
| JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM | | |
| REVISIONS | 3 | |
| NUMBER TYPE | DATE: | |
| | | |
| DRAWN BY: | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 | |
| | | |

SCOPE OF WORK

PLOT: NTS



SEE ENLARGED PLANS ON SHEETS A1.0 - A1.2



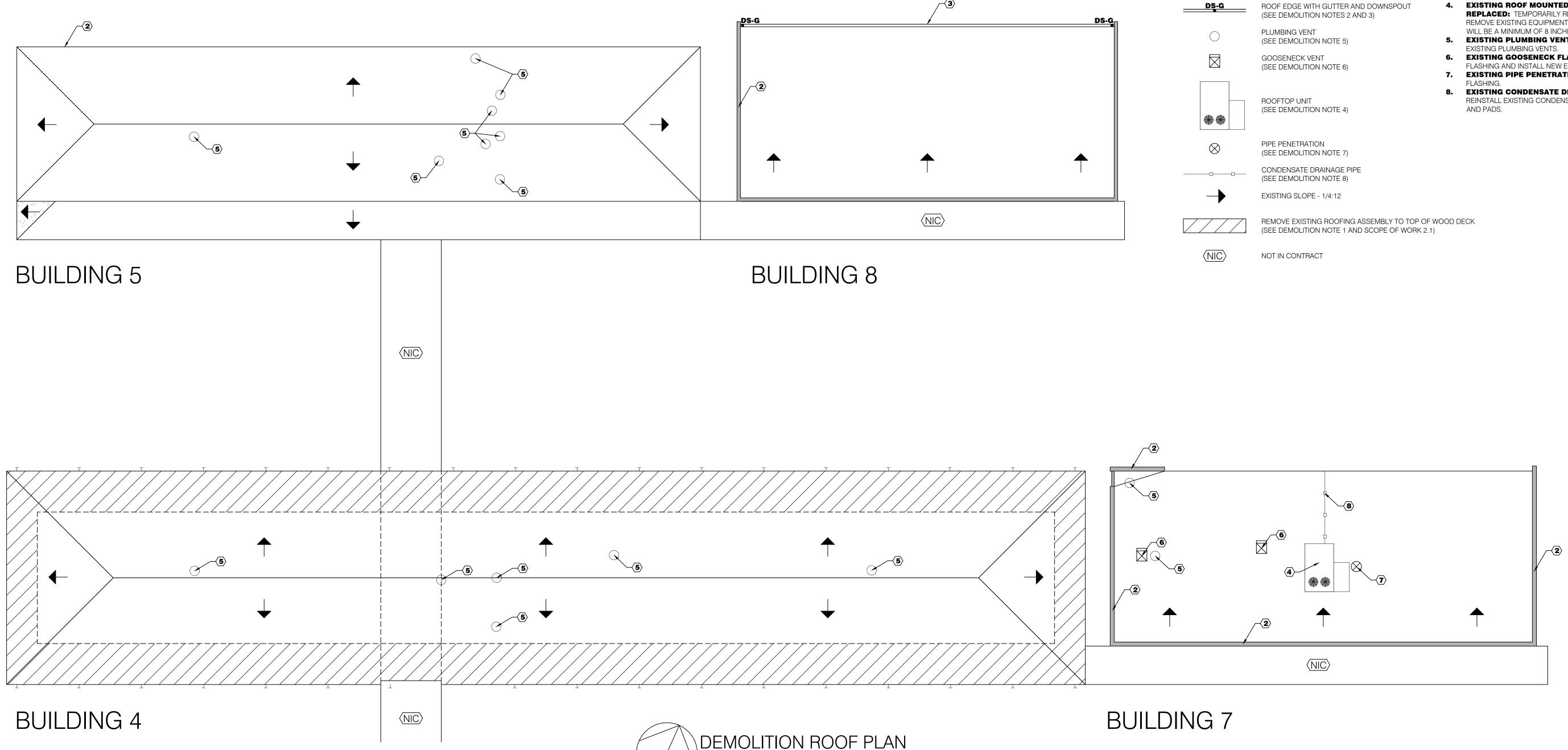


BUILDINGS INCLUDED IN SCOPE OF WORK

CONSTRUCTION NOTES:

- 1. CONSTRUCTION LIMITS: LIMITS ARE WITHIN 10 FEET MAXIMUM OF BUILDINGS EXCEPT WHERE OTHERWISE INDICATED.
- 2. CONSTRUCTION STAGING AREA: FENCE PERIMETER USING 8'-0" HIGH CHAIN LINK FENCE. COORDINATE IN THE FIELD WITH REPRESENTATIVE FROM THE OWNER.
- **3. ACCESSABLE PATH:** THE ACCESSABLE PATH MUST BE LEFT UNIMPEDED THROUGHOUT THE CONSTRUCTION. PROVIDE BARRIERS BETWEEN THE CONSTRUCTION AND THE ACCESSABLE PATH AS NECESSARY TO PROVIDE SAFE ACCESS.
- **4. SAFETY PLAN:** CONTRACTOR TO SUBMIT SAFETY PLAN WHICH CLEARLY DELINEATES AREAS FOR CONSTRUCTION, SAFETY BARRIERS, EXITS, CONSTRUCTION TRAFFIC DURING VARIOUS PHASES OF THE PROJECT AND WHEN CONDITIONS CHANGE. CONTRACTOR TO CONFORM WITH REQUIREMENTS IN FBC-B 453.6, FFPC 1-16.1 AND NFPA 241.

| CONSTR | UCTION DO | OCUMENTS |
|---|--|--|
| HENDRY (| COUNTY SCHO | DOL DISTRICT |
| CLEWISTON YOU | JTH DEVEL CLEWISTON, FLOP | OPMENT ACADEMY |
| BUILE | REPLACEM DINGS 4, 5, ROJECT NUME | |
| · | | |
| 126 PARK AVENUE SOL | | NTER PARK, FLORIDA 32789 E MAIL: JAY@JAYAMMON.COM |
| | | |
| DRAWN BY: <u>JSJ</u> APPROVED BY: <u>JPA</u> | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 |
| | | SITE PLAN |
| PLOT: 1" = 80'-0" | SHEET | G1.4 |



EXISTING ROOFING ASSEMBLY NOTES: EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.

EXISTING ROOFING ASSEMBLY - BUILDING 4

| | ROOF COMPONENTS |
|-----------------|--|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET |
| BUILT-UP ROOF | ASPHALT COATED, GLASS-FIBER REINFORCED FELTS |
| COVER BOARD | 3/4" PERLITE |
| INSULATION | TAPERED POLYISOCYANURATE INSULATION |
| BASE SHEET | BASE SHEET |
| STRUCTURAL DECK | WOOD DECK |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE |

EXISTING ROOFING ASSEMBLY - BUILDING 5

| | ROOF COMPONENTS |
|-----------------|--|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET |
| BUILT-UP ROOF | ASPHALT COATED, GLASS-FIBER REINFORCED FELTS |
| COVER BOARD | 3/4" PERLITE |
| INSULATION | TAPERED POLYISOCYANURATE INSULATION |
| BASE SHEET | BASE SHEET |
| ROOF DECK | LIGHTWEIGHT CONCRETE |
| STRUCTURAL DECK | FORM DECK OVER STEEL JOISTS (UPPER ROOF) / TRANSITE PANEL (LOWER ROOF) |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE |
| | |

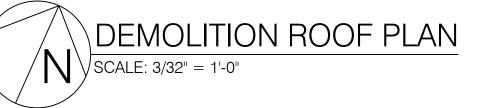
EXISTING ROOFING ASSEMBLY - BUILDING 7

| | RC |
|-----------------|-----------------|
| ROOF FINISH | MODIFIED BITUN |
| BUILT-UP ROOF | ASPHALT COATE |
| COVER BOARD | 3/4" PERLITE |
| INSULATION | 1-1/2" FLAT POL |
| STRUCTURAL DECK | SLOPED STEEL I |
| ROOF FLASHINGS | STAINLESS STEE |
| DRAINAGE | SPILL-OVER EDG |
| | |

EXISTING ROOFING ASSEMBLY - BUILDING 8

| | ROOF COMPONENTS |
|-----------------|--|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET |
| BASE PLY | MODIFIED BITUMEN BASE PLY |
| INSULATION | 5-1/2" FLAT POLYISOCYANURATE INSULATION |
| STRUCTURAL DECK | SLOPED STEEL DECK OVER STEEL JOISTS |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE TO GUTTER AND DOWNSPOUTS |





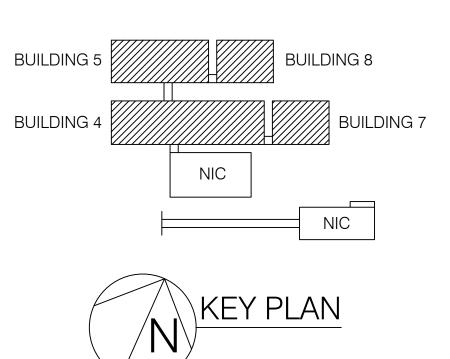
ROOF COMPONENTS JMEN CAP SHEET TED, GLASS-FIBER REINFORCED FELTS

LYISOCYANURATE INSULATION _ DECK OVER STEEL JOISTS

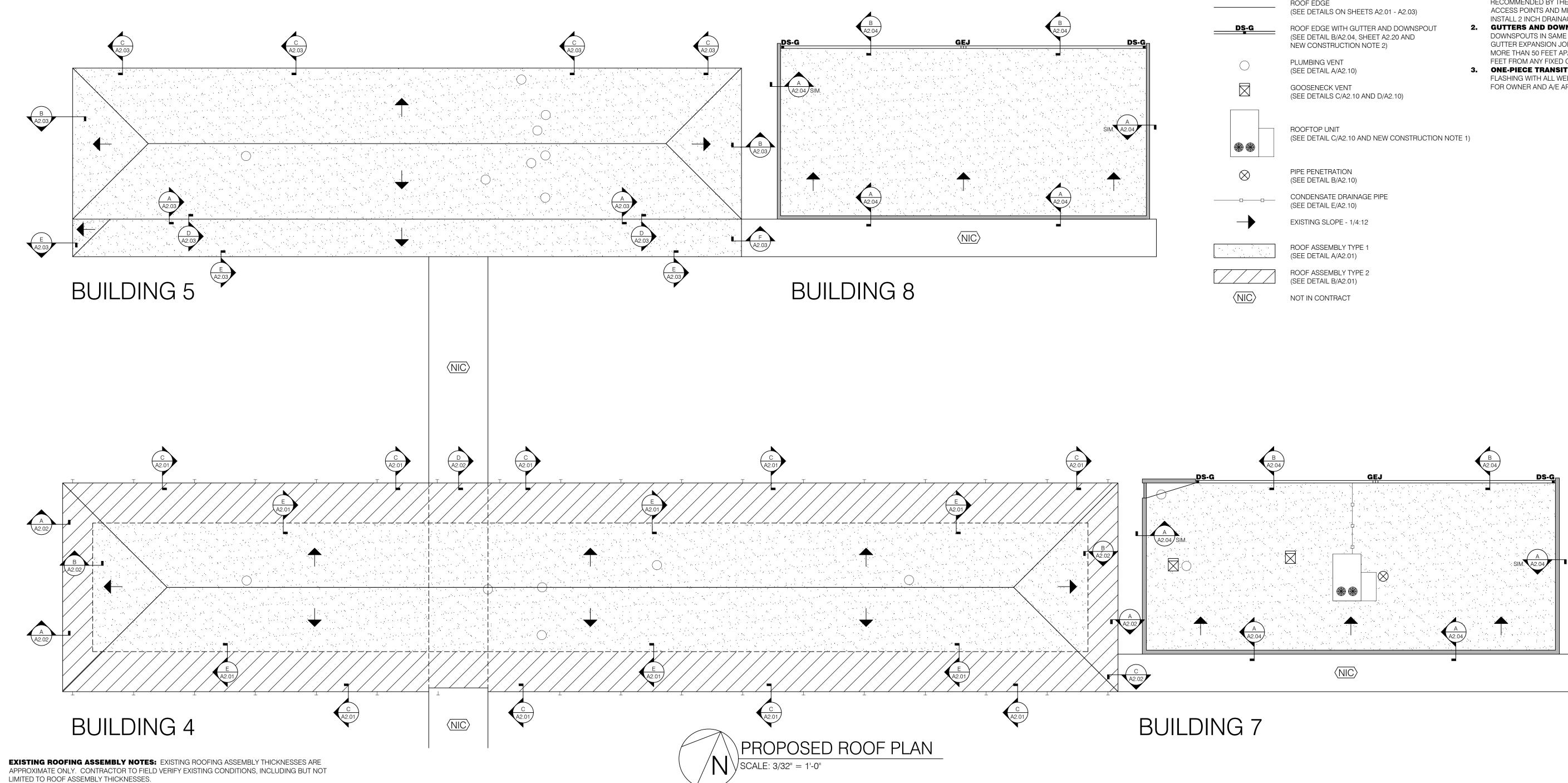
LEGEND

| DEMO | DLITI | ON I | NOTES |
|------|-------|------|-------|
| | | | |

| | PARAPET WALL (SEE DEMOLITION NOTE 2) | 1. | EXISTING ROOF ASSEMBLY: REMOVE EXISTING ROOFING ASSEMBLY TO TOP OF EXISTING STRUCTURAL DECK. |
|-----------------------|--|----------|---|
| | ROOF EDGE | 2. | EXISTING METAL FLASHINGS: REMOVE ALL EXISTING METAL FLASHINGS UNLESS DESIGNATED OTHERWISE. |
| | (SEE DEMOLITION NOTE 2) | 3. | EXISTING GUTTER AND DOWNSPOUTS: REMOVE ALL EXISTING GUTTER AND DOWNSPOUTS UNLESS DESIGNATED OTHERWISE. |
| DS-G | ROOF EDGE WITH GUTTER AND DOWNSPOUT (SEE DEMOLITION NOTES 2 AND 3) | 4. | EXISTING ROOF MOUNTED EQUIPMENT CURB TO BE REMOVED AND REPLACED: TEMPORARILY REMOVE EXISTING ROOF MOUNTED EQUIPMENT. REMOVE EXISTING EQUIPMENT CURB AND INSTALL NEW EQUIPMENT CURB THAT |
| \bigcirc | PLUMBING VENT (SEE DEMOLITION NOTE 5) | 5. | WILL BE A MINIMUM OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. EXISTING PLUMBING VENTS TO REMAIN: REMOVE FLASHINGS AT THE EXISTING PLUMBING VENTS. |
| \square | GOOSENECK VENT (SEE DEMOLITION NOTE 6) | 6. 7. | EXISTING GOOSENECK FLASHING: REMOVE EXISTING GOOSENECK FLASHING AND INSTALL NEW EQUIPMENT CURB. EXISTING PIPE PENETRATION: REMOVE EXISTING PIPE PENETRATION |
| | ROOFTOP UNIT (SEE DEMOLITION NOTE 4) | 8. | FLASHING. EXISTING CONDENSATE DRAINAGE PIPE: TEMPORARILY REMOVE AND REINSTALL EXISTING CONDENSATE DRAINAGE PIPE OVER NEW SUPPORT STANDS AND PADS. |
| \otimes | PIPE PENETRATION (SEE DEMOLITION NOTE 7) | | |
| | CONDENSATE DRAINAGE PIPE (SEE DEMOLITION NOTE 8) | | |
| \rightarrow | EXISTING SLOPE - 1/4:12 | | |
| | REMOVE EXISTING ROOFING ASSEMBLY TO TOP OF WO (SEE DEMOLITION NOTE 1 AND SCOPE OF WORK 2.1) | OOD D | ECK |
| $\langle NIC \rangle$ | NOT IN CONTRACT | | |
| | | | |
| | | | |



| CONSTRUCTION DOCUMENTS HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA | | | | |
|---|---|----------|-----------------|--|
| F | ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER: | | | |
| JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM | | | | |
| NUMBER | TYPE | REVISION | NS DATE: | |
| | | | | |



PROPOSED ROOFING ASSEMBLY - TYPE 1 - BUILDING 4

| | ROOF COMPONENTS |
|--------------------------|---|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET OVER MODIFIED BITUMEN BASE PLY |
| COVER BOARD | COVER BOARD ADHERED IN ADHESIVE |
| EXISTING ROOF FINISH | EXISTING MODIFIED BITUMEN CAP SHEET |
| EXISTING BUILT-UP ROOF | EXISTING ASPHALT COATED, GLASS-FIBER REINFORCED FELTS |
| EXISTING COVER BOARD | EXISTING 3/4" PERLITE |
| EXISTING INSULATION | EXISTING TAPERED POLYISOCYANURATE INSULATION |
| EXISTING BASE SHEET | EXISTING BASE SHEET |
| EXISTING STRUCTURAL DECK | EXISTING WOOD DECK |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE |

PROPOSED ROOFING ASSEMBLY - BUILDING 5

| | ROOF COMPONENTS |
|--------------------------|--|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET OVER MODIFIED BITUMEN BASE PLY |
| COVER BOARD | COVER BOARD ADHERED IN ADHESIVE |
| EXISTING ROOF FINISH | EXISTING MODIFIED BITUMEN CAP SHEET |
| EXISTING BUILT-UP ROOF | EXISTING ASPHALT COATED, GLASS-FIBER REINFORCED FELTS |
| EXISTING COVER BOARD | EXISTING 3/4" PERLITE |
| EXISTING INSULATION | EXISTING TAPERED POLYISOCYANURATE INSULATION |
| EXISTING BASE SHEET | EXISTING BASE SHEET |
| EXISTING ROOF DECK | EXISTING LIGHTWEIGHT CONCRETE |
| EXISTING STRUCTURAL DECK | EXISTING FORM DECK OVER EXISTING STEEL JOISTS (UPPER ROOF) / EXISTING TRANSITE PANEL (LOWER ROOF) |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE |
| | |

PROPOSED PERIMETER ROOFING ASSEMBLY - BUILDING 4

| | RC |
|---------------------|----------------|
| ROOF FINISH | MODIFIED BITUN |
| COVER BOARD | COVER BOARD |
| NEW ROOF FINISH | NEW MODIFIED |
| NEW BASE PLY | NEW MODIFIED |
| NEW COVER BOARD | NEW COVER BC |
| NEW INSULATION | NEW TAPERED F |
| NEW BASE SHEET | NEW BASE SHE |
| NEW STRUCTURAL DECK | NEW AND EXIST |
| ROOF FLASHINGS | STAINLESS STE |
| DRAINAGE | SPILL-OVER ED |

ROOF COMPONENTS IMEN CAP SHEET OVER MODIFIED BITUMEN BASE PLY ADHERED IN ADHESIVE) BITUMEN CAP SHEET - TORCH-APPLIED D BITUMEN BASE PLY - TORCH-APPLIED

OARD POLYISOCYANURATE INSULATION

TING WOOD DECK

PROPOSED ROOFING ASSEMBLY - BUILDING 7

| | ROOF COMPONENTS |
|--------------------------|---|
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET OVER MODIFIED BITUMEN BASE PLY |
| COVER BOARD | COVER BOARD ADHERED IN ADHESIVE |
| EXISTING ROOF FINISH | EXISTING MODIFIED BITUMEN CAP SHEET |
| EXISTING BUILT-UP ROOF | EXISTING ASPHALT COATED, GLASS-FIBER REINFORCED FELTS |
| EXISTING COVER BOARD | EXISTING 3/4" PERLITE |
| EXISTING INSULATION | EXISTING 1-1/2" FLAT POLYISOCYANURATE INSULATION |
| EXISTING STRUCTURAL DECK | EXISTING SLOPED STEEL DECK OVER STEEL JOISTS |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE TO GUTTER AND DOWNSPOUTS |

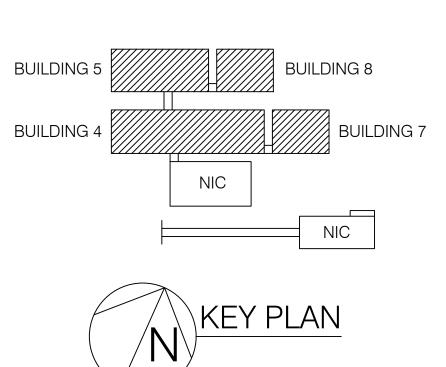
PROPOSED ROOFING ASSEMBLY - BUILDING 8

| | ROOF COMPONENTS |
|--------------------------|---|
| | |
| ROOF FINISH | MODIFIED BITUMEN CAP SHEET OVER MODIFIED BITUMEN BASE PLY |
| COVER BOARD | COVER BOARD ADHERED IN ADHESIVE |
| EXISTING ROOF FINISH | EXISTING MODIFIED BITUMEN CAP SHEET |
| EXISTING BASE PLY | EXISTING MODIFIED BITUMEN BASE PLY |
| EXISTING INSULATION | EXISTING 5-1/2" FLAT POLYISOCYANURATE INSULATION |
| EXISTING STRUCTURAL DECK | EXISTING SLOPED STEEL DECK OVER STEEL JOISTS |
| ROOF FLASHINGS | STAINLESS STEEL |
| DRAINAGE | SPILL-OVER EDGE TO GUTTER AND DOWNSPOUTS |



NEW CONSTRUCTION NOTES

| | PARAPET WALL (SEE DETAIL A/A2.04 AND SHEET A/A2.21) | 1. | MECHANICAL EQUIPMENT - CRICKETS AND ROOF TRAFFIC PADS: INSTALL CRICKETS ON THE UPSLOPE OF ALL ROOF MOUNTED EQUIPMENT TO DIVERT WATER AROUND THE EQUIPMENT. INSTALL ROOF TRAFFIC PADS |
|---------------|---|----|---|
| | ROOF EDGE (SEE DETAILS ON SHEETS A2.01 - A2.03) | | RECOMMENDED BY THE ROOF MEMBRANE MANUFACTURER AROUND ALL ROOF ACCESS POINTS AND MECHANICAL EQUIPMENT THAT REQUIRES SERVICING. INSTALL 2 INCH DRAINAGE SLOTS BETWEEN EACH ROOF TRAFFIC PAD. |
| DS-G | ROOF EDGE WITH GUTTER AND DOWNSPOUT (SEE DETAIL B/A2.04, SHEET A2.20 AND NEW CONSTRUCTION NOTE 2) | 2. | GUTTERS AND DOWNSPOUTS: INSTALL NEW GUTTERS AND NEW DOWNSPOUTS IN SAME LOCATIONS AS WHERE THEY WERE REMOVED. INSTALL GUTTER EXPANSION JOINTS CENTERED IN BETWEEN DOWNSPOUT LOCATIONS, NO MORE THAN 50 FEET APART IN LONG, STRAIGHT RUNS AND NO MORE THAN 25 |
| \bigcirc | PLUMBING VENT (SEE DETAIL A/A2.10) | 3. | FEET FROM ANY FIXED CORNER. ONE-PIECE TRANSITION FLASHING: INSTALL NEW ONE-PIECE TRANSITION FLASHING WITH ALL WELDED NON-MOVING JOINTS. PREPARE IN-PLACE MOCKUP |
| \square | GOOSENECK VENT (SEE DETAILS C/A2.10 AND D/A2.10) | | FOR OWNER AND A/E APPROVAL. |
| | ROOFTOP UNIT (SEE DETAIL C/A2.10 AND NEW CONSTRUCTION NOTE 1 | 1) | |
| \otimes | PIPE PENETRATION (SEE DETAIL B/A2.10) | | |
| | CONDENSATE DRAINAGE PIPE (SEE DETAIL E/A2.10) | | |
| \rightarrow | EXISTING SLOPE - 1/4:12 | | |
| | ROOF ASSEMBLY TYPE 1 (SEE DETAIL A/A2.01) | | |
| | ROOF ASSEMBLY TYPE 2 (SEE DETAIL B/A2.01) | | |
| (NIC) | NOT IN CONTRACT | | |
| | | | |



| NUMBER | F | REVISIONS | DATE: | |
|-----------------------|-----------------------|-----------|---|--|
| | | | | |
| DRAWN BY: APPROVED | JSJ BY: <u>JPA</u> | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 | |
| PROPOSED ROOF PLAN | | | | |

SHEET

PLOT: 3/32" = 1'-0"

A1.1

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT

CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

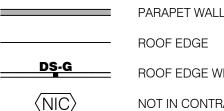
ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

PROJECT NUMBER:

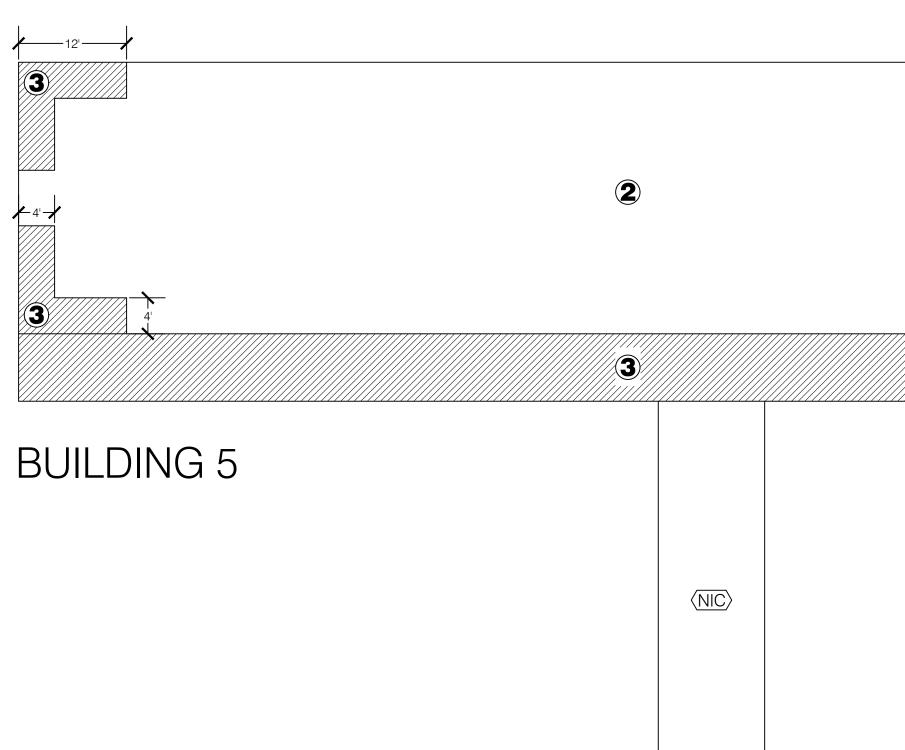
JAY AMMON ARCHITECT, INC.

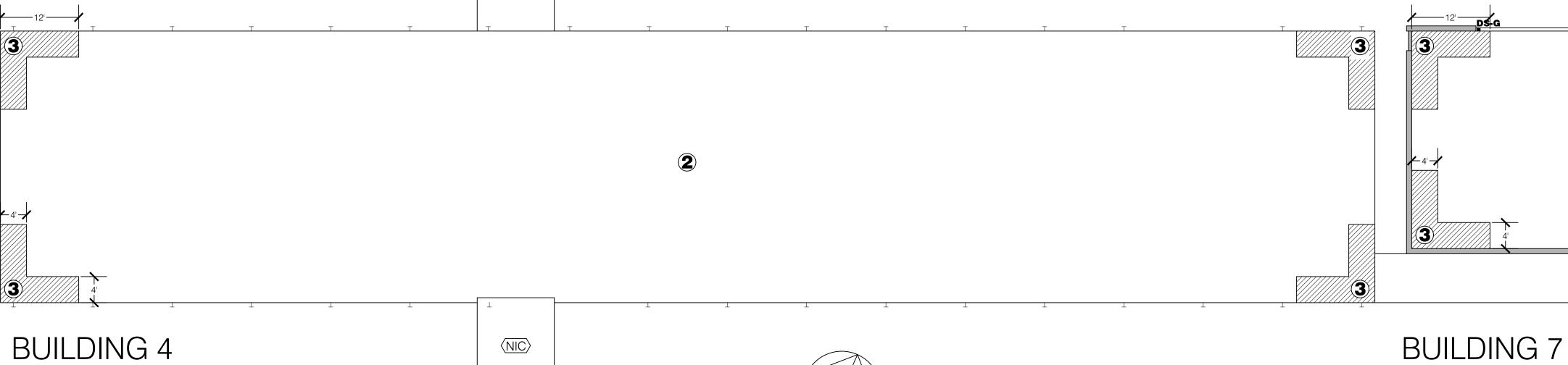
126 PARK AVENUE SOUTH, SUITE A . WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

LEGEND



ROOF EDGE ROOF EDGE WITH GUTTER AND DOWNSPOUT NOT IN CONTRACT





WIND UPLIFT PRESSURE PLAN - NOTES

1. DIMENSIONS: ALL DIMENSIONS ARE FOR REFERENCE ONLY.

- 2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DIFFERENCES. 3. CONTRACTOR TO PROVIDE DELEGATED ENGINEERING THAT ROOFING ASSEMBLY SYSTEM AND
- METAL FLASHINGS MEET DESIGNED WIND LOADS. 4. COORDINATE WITH STRUCTURAL.

WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING:

ASCE 7-16, Vult=160 mph wind, Vasd=116 mph wind, category ${
m I\!I}$, Exposure "C", Kd = 0.85, h = 20 ft., ENCLOSED BUILDING: GCpi = \pm 0.18.

WIND UPLIFT PRESSURES SHOWN ARE ALLOWABLE STRENGTH DESIGN PRESSURES FOR CORNER ZONE, EDGE ZONE, AND FIELD ZONE FOR ROOF COMPONENTS AND CLADDING (C & C). AREA \leq 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.

WIND PRESSURES - ROOF:

| WIND UPLIFT PRESSURE LEC | ASCE 7–16 ROOF C & C DESIGN PRESSURES | |
|--------------------------|---|------------|
| ZONE 1' – FIELD ZONE | | -32.6 PSF |
| ZONE 1 – FIELD ZONE | ⊨≓ ① | -56.8 PSF |
| ZONE 2 – EDGE ZONE | <u>⊧</u> 2 | -74.9 PSF |
| ZONE 3 – CORNER ZONE | ¥ | -102.1 PSF |

ALL PRESSURES ARE ALLOWABLE STRESS DESIGN (ASD). DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE - SEE DIAGRAM

CODES: <u>FLORIDA BUILDING CODE 2020 (7TH ED) AND ASCE 7–16</u>

| 3 | 3 | 3 |
|---|---|-----------|
| 3 | 2 | 3 |
| | | \rangle |

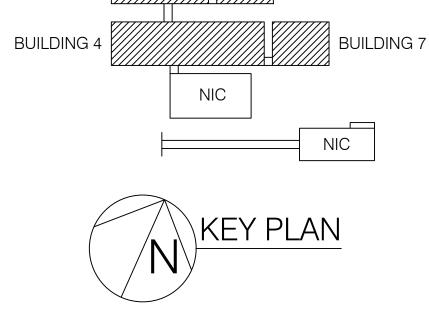
BUILDING 8



WIND PRESSURES - METAL FLASHINGS:

| WIND UPLIFT PRESSURE LEGEND: | | ROOF AREAS A-C |
|---|---|----------------|
| ZONE 2 - ROOF EDGE PERIMETER VERTICAL LOAD DIRECTION | 2 | -150 PSF |
| ZONE 3 - ROOF EDGE CORNERS VERTICAL LOAD DIRECTION | 3 | -205 PSF |
| ZONE 4 – WALL EDGE PERIMETER HORIZONTAL LOAD DIRECTION | 4 | -78 PSF |
| ZONE 5 – WALL EDGE CORNERS HORIZONTAL LOAD DIRECTION | 5 | -96 PSF |

*ALL PRESSURES ARE ASD WITH A SAFETY OF FACTOR OF 2 PER ANSI/SPRI ES-1.



BUILDING 8



SHEET

PLOT: 3/32" = 1'-0"

| NUMBER | TYPE | REVISION | S DATE: | |
|-----------------------|------|----------|----------------------------------|--|
| | | | | |
| DRAWN BY: APPROVED | | | PROJECT NUMBER: DATE:DECEMBER | |

| JAY AMMON ARCHITECT, INC. | | | | | |
|---|------|----------------|---|--------------------------|---|
| 126 PARK AVENUE SOUTH, SUITE A 🔹 WINTER PARK, FLORIDA 32789 | | | | | |
| (407) 333-1977 | FAX: | (407) 333-4686 | • | E MAIL: JAY@JAYAMMON.COM | |
| | | | | | , |

PROJECT NUMBER:

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

CONSTRUCTION DOCUMENTS

BUILDING 5

| | 2 | 3 |
|---|----------------|---|
| - | | 3 |
| | < <u>NIC</u> > | |
| | | |

GEJ

DS-G

GENERAL NOTES:

- 1. PRODUCTS LISTED ARE A BASIS OF DESIGN. PRODUCTS MEETING THE PERFORMANCE
- CHARACTERISTICS AS THOSE LISTED WILL BE CONSIDERED.
- 2. CONTRACTOR IS REQUIRED TO CHECK USE OF PRODUCTS APPLICATION AND INSTALLATION PRIOR TO SUBMITTAL AND ORDERING.
- 3. CONTRACTOR IS REQUIRED TO INSTALL MOCK-UP OF EACH TYPE OF DETAIL FOR OWNER / ARCHITECT REVIEW PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 4. SUBMITTALS: CONTRACTOR TO PROVIDE ALL REQUIRED SUBMITTALS, INCLUDING BUT NOT LIMITED TO, PRODUCT DATA SHEETS, SHOP DRAWINGS, AND FLORIDA PRODUCT APPROVAL AND/OR MIAMI-DADE NOA.

MATERIAL COMPONENT SCHEDULE:

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD.

P.T. WOOD BLOCKING: PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY:

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER. RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY:

MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP. RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE 304.

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL.

DOWNSPOUT STRAP: 1/8" THICK X 1" WIDE 22 GAGE STAINLESS STEEL.

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL.

FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304. **GOOSENECK FLASHING:** 20 GAGE STAINLESS STEEL, TYPE 304.

GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED.

GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304.

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304.

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY. METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304 WITH PRE-PUNCHED HOLES AT 6" O.C.

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES

PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

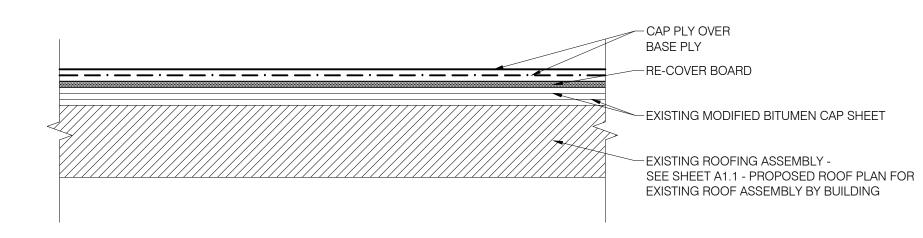
URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

| CONSTRUCTION DC | CUMENTS | | | |
|--|---|--|--|--|
| HENDRY COUNTY SCHO | OL DISTRICT | | | |
| CLEWISTON YOUTH DEVELO CLEWISTON, FLORI | | | | |
| ROOFING REPLACEME BUILDINGS 4, 5, PROJECT NUMB | 7 AND 8 | | | |
| 126 PARK AVENUE SOUTH, SUITE A 💌 WIN | JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM | | | |
| REVISIONS | | | | |
| NUMBER TYPE | DATE: | | | |
| | | | | |
| DRAWN BY:JSJ APPROVED BY: _JPA | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 | | | |
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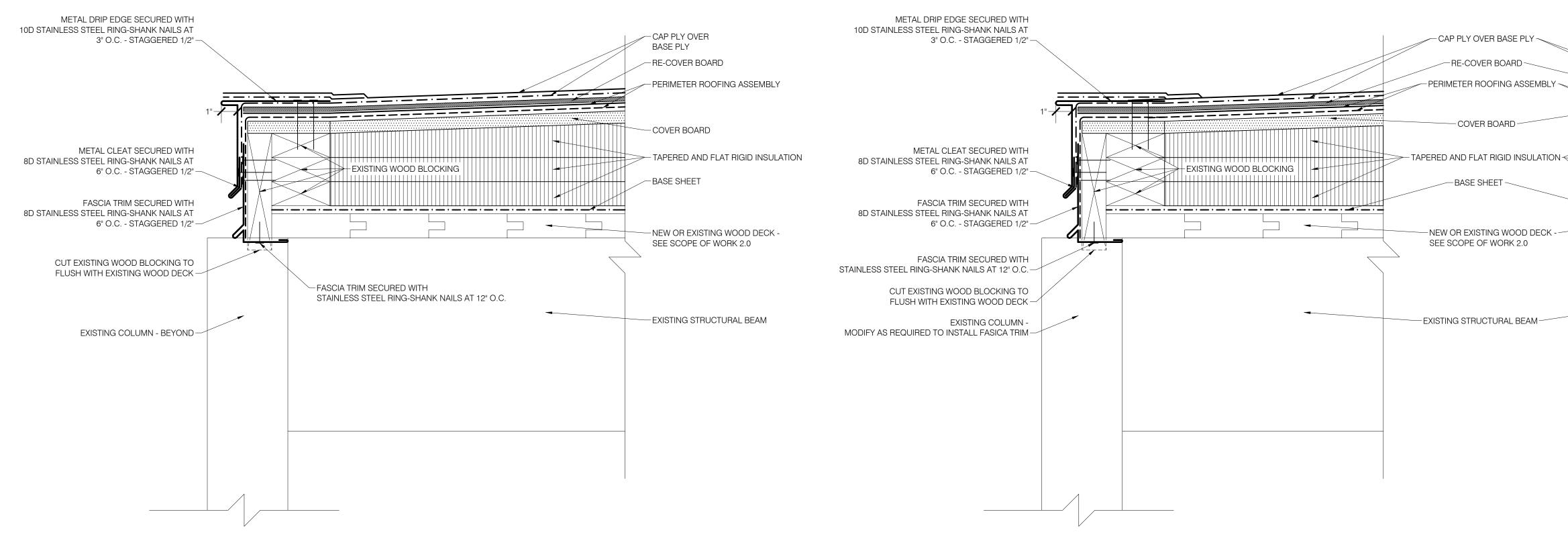
PRODUCT SPECIFICATIONS

A2.00

- FINAL RECOVER ROOFING ASSEMBLY: BASIS OF DESIGN: FL41698 SYSTEM NO. R-13.
- 1. "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER BASE PLY. 2. "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER COVER BOARD.
- 3. 1/4" "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG ADHERED IN PARAFAST IA AT 6" O.C. RIBBON SPACING. 3.1 ADHESIVE TYPE AND RIBBON SPACING PER ROOF ASSEMBLY PRODUCT APPROVAL, DELEGATED ENGINEERED CALCULATIONS AND MANUFACTURER'S RECOMMENDATIONS TO MEET DESIGN WIND UPLIFT PRESSURES. MOST STRINGENT REQUIREMENTS TO BE INSTALLED.
- 3.2 ALL ADHESIVE TO HAVE A MINIMUM THICKNESS AS REQUIRED BY THE TESTED SYSTEM. 4. EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.





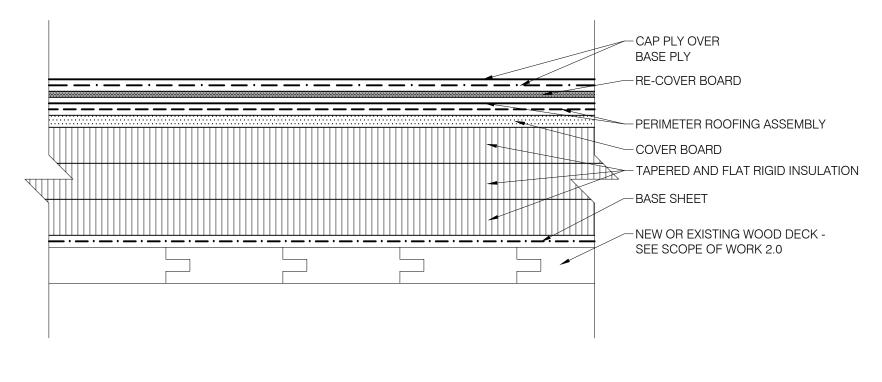




NOTES A/A2.01:

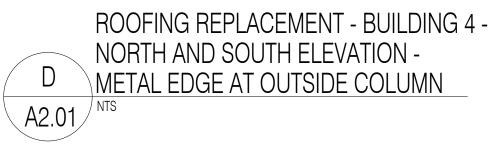
NOTES B/A2.01:

- FINAL RECOVER ROOFING ASSEMBLY: BASIS OF DESIGN: FL41698 SYSTEM NO. R-13.
- 1. "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER BASE PLY. "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER COVER BOARD.
- 1/4" "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG ADHERED IN PARAFAST IA AT 6" O.C. RIBBON SPACING.
- 3.1 ADHESIVE TYPE AND RIBBON SPACING PER ROOF ASSEMBLY PRODUCT APPROVAL, DELEGATED ENGINEERED CALCULATIONS AND MANUFACTURER'S RECOMMENDATIONS TO MEET DESIGN WIND UPLIFT PRESSURES. MOST STRINGENT REQUIREMENTS TO BE INSTALLED. 3.2 ALL ADHESIVE TO HAVE A MINIMUM THICKNESS AS REQUIRED BY THE TESTED SYSTEM.
- PERIMETER ROOFING ASSEMBLY: BASIS OF DESIGN: FL41698 SYSTEM NO. W-31. 1. "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER BASE PLY.
- "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST TORCH APPLIED OVER COVER BOARD.
- 3. 3/4" "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG MECHANICALLY ATTACHED TO NEW OR EXISTING WOOD DECK.
- 3.1 FASTENERS ARE NOT TO PENETRATE THE UNDERSIDE OF WOOD DECK. 3.2 FASTENER TYPE AND SPACING PER SITE SPECIFIC ENGINEERING, MANUFACTURER'S RECOMMENDATION AND DESIGN WIND PRESSURES.
- 3.3 ALL FASTENERS TO HAVE A MINIMUM EMBEDMENT ACCORDING TO PRODUCT APPROVAL.
- 4. TAPERED AND FLAT POLYISOCYANURATE INSULATION. BASE SHEET MECHANICALLY ATTACHED TO WOOD DECK.
- 6. EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.



ROOFING REPLACEMENT В PERIMETER ROOFING - BUILDING -A2.01







MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. **P.T. WOOD BLOCKING:** PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY: BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. **BASE SHEET:** ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL.

FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304. **GOOSENECK FLASHING: 20 GAGE STAINLESS STEEL, TYPE 304.** GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY

METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE **METAL DRIP EDGE:** 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL. TYPE TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

304 WITH PRE-PUNCHED HOLES AT 6" O.C. **ONE-PIECE TRANSITION FLASHING:** 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

PLOT: 3" = 1'-0"

BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY

CLEWISTON, FLORIDA ROOFING REPLACEMENT PROJECT

BUILDINGS 4, 5, 7 AND 8

| PROJECT NUMBER: | | | |
|---|---|----------|---|
| JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM | | | |
| NUMBER | R | EVISIONS | DATE: |
| | | | |
| DRAWN BY: APPROVED | | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 |

ROOF DETAILS

OVERLAP EXISTING А MIN. OF 12 INCHES -EXISTING CAP SHEET -EXISTING COVER BOARD -EXISTING -EXISTING BUILDING 4 -

TRANSITION BETWEEN REPLACEMENT AND RECOVER

INSULATION

BASE SHEET



ROOFING REPLACEMENT - BUILDING 4 -METAL EDGE AT EXISTING WALKWAY CANOPY С A2.02/

-PERIMETER ROOFING ASSEMBLY

- TAPERED AND FLAT RIGID INSULATION

-NEW OR EXISTING WOOD DECK -

-PERIMETER ROOFING ASSEMBLY

- TAPERED AND FLAT RIGID INSULATION

-NEW OR EXISTING WOOD DECK -

SEE SCOPE OF WORK 2.0

CAP PLY OVER OVERLAP EXISTING BASE PLY А MIN. OF 12 INCHES -RE-COVER BOARD -EXISTING CAP SHEET -EXISTING COVER BOARD EXISTING INSULATION -EXISTING BASE SHEET -NEW OR EXISTING WOOD DECK -SEE SCOPE OF WORK 2.0 BUILDING 4 -В TRANSITION BETWEEN REPLACEMENT AND RECOVER / NTS A2.02 METAL DRIP EDGE SECURED WITH 10D STAINLESS STEEL RING-SHANK NAILS AT 3" O.C. - STAGGERED 1/2"-_____ METAL CLEAT SECURED WITH 8D STAINLESS STEEL RING-SHANK NAILS AT EXISTING WOOD BLOCKING 6" O.C. - STAGGERED 1/2"-----

FASCIA TRIM SECURED WITH 8D STAINLESS STEEL RING-SHANK NAILS AT 6" O.C. - STAGGERED 1/2"-FASCIA TRIM SECURED WITH STAINLESS STEEL RING-SHANK NAILS AT 12" O.C. CUT EXISTING WOOD BLOCKING TO FLUSH WITH EXISTING WOOD DECK -

EXISTING COLUMN - BEYOND -

A2.02/

ROOFING REPLACEMENT - BUILDING 4 -D METAL EDGE AT EXISTING WALKWAY CANOPY / NTS

MATERIAL COMPONENT SCHEDULE **ROUGH CARPENTRY**

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. P.T. WOOD BLOCKING: PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING RECOVER ROOF ASSEMBLY:

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL. FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304.

GOOSENECK FLASHING: 20 GAGE STAINLESS STEEL, TYPE 304. GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY.

METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304 WITH PRE-PUNCHED HOLES AT 6" O.C.

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER:

| JAY AMMON ARCHITECT, INC. | |
|---------------------------|--|

126 PARK AVENUE SOUTH, SUITE A 🔹 WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

| NUMBER | TYPE | REVISIONS | DATE: |
|---------------------------|------|-----------|---|
| | | | |
| DRAWN BY: . APPROVED E | | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 |

ROOF DETAILS

CAP PLY OVER

-RE-COVER BOARD

-COVER BOARD

-BASE SHEET

-PERIMETER ROOFING ASSEMBLY

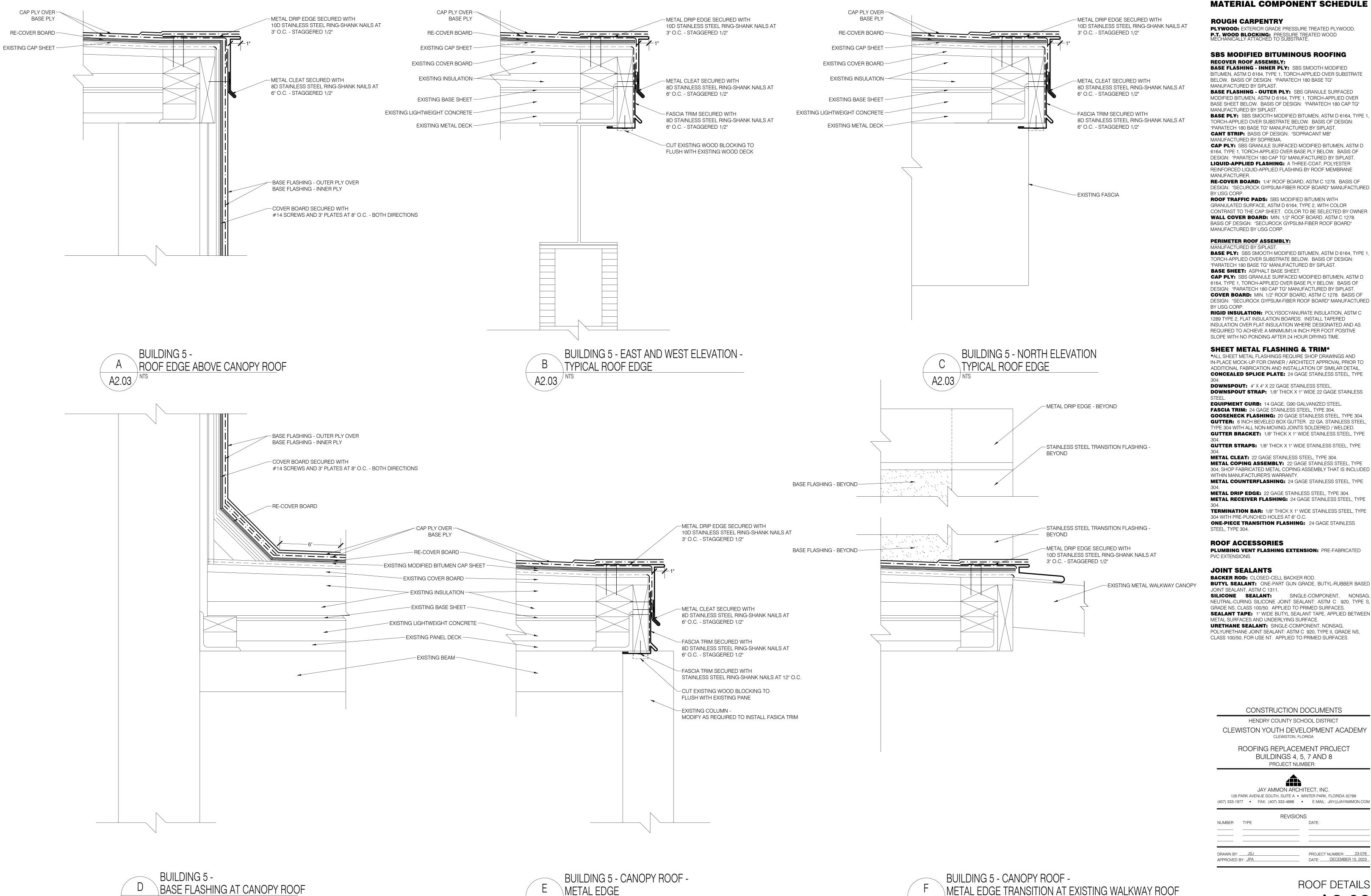
- TAPERED AND FLAT RIGID INSULATION

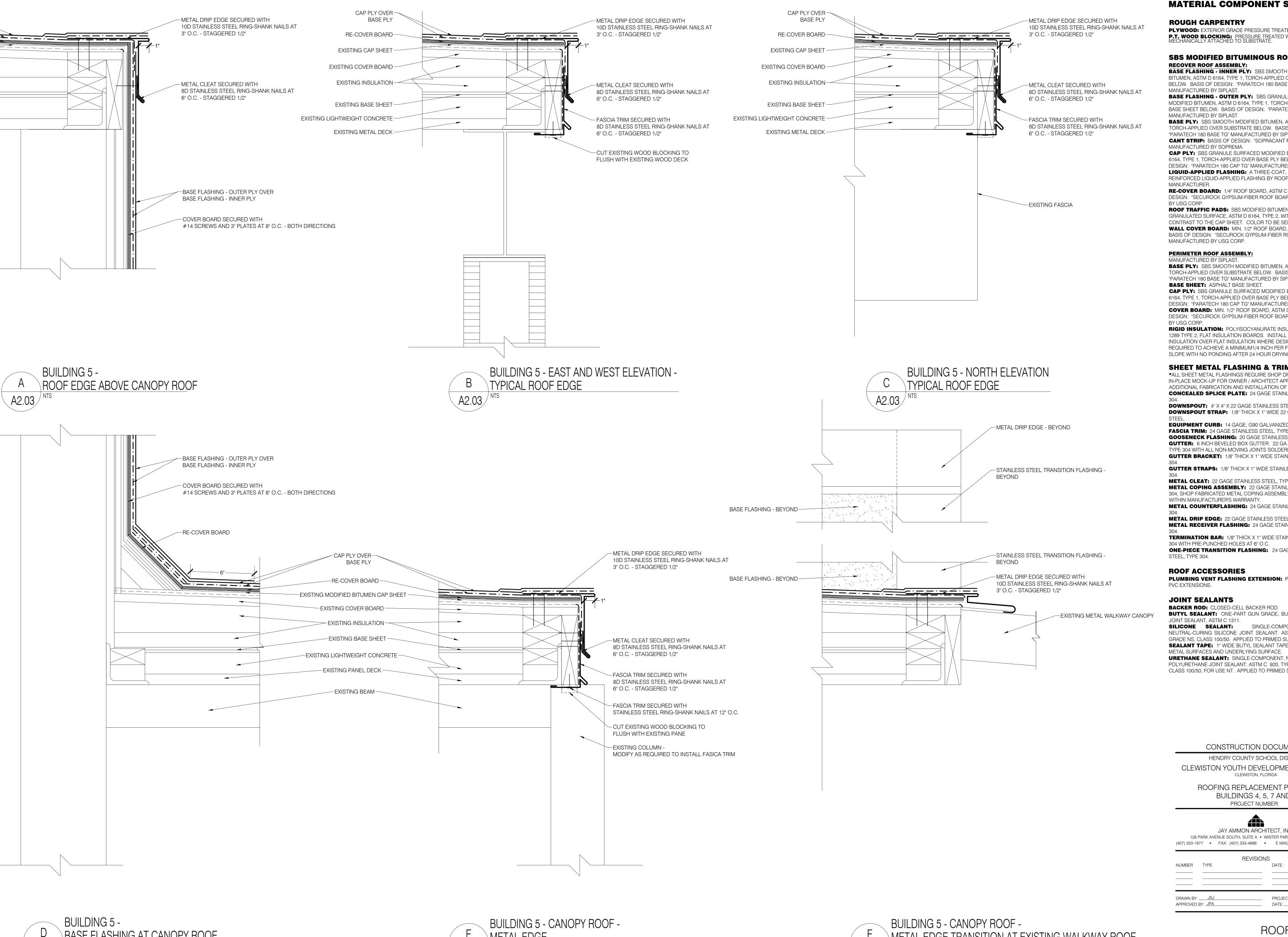
-NEW OR EXISTING WOOD DECK -

- EXISTING STRUCTURAL BEAM - BEYOND

SEE SCOPE OF WORK 2.0

BASE PLY







MATERIAL COMPONENT SCHEDULE

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. P.T. WOOD BLOCKING: PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG"

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG"

TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT STRAP: 1/8" THICK X 1" WIDE 22 GAGE STAINLESS

FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304.

GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED

METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS

PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS,

CLEWISTON YOUTH DEVELOPMENT ACADEMY

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

JAY AMMON ARCHITECT, INC.

(407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM

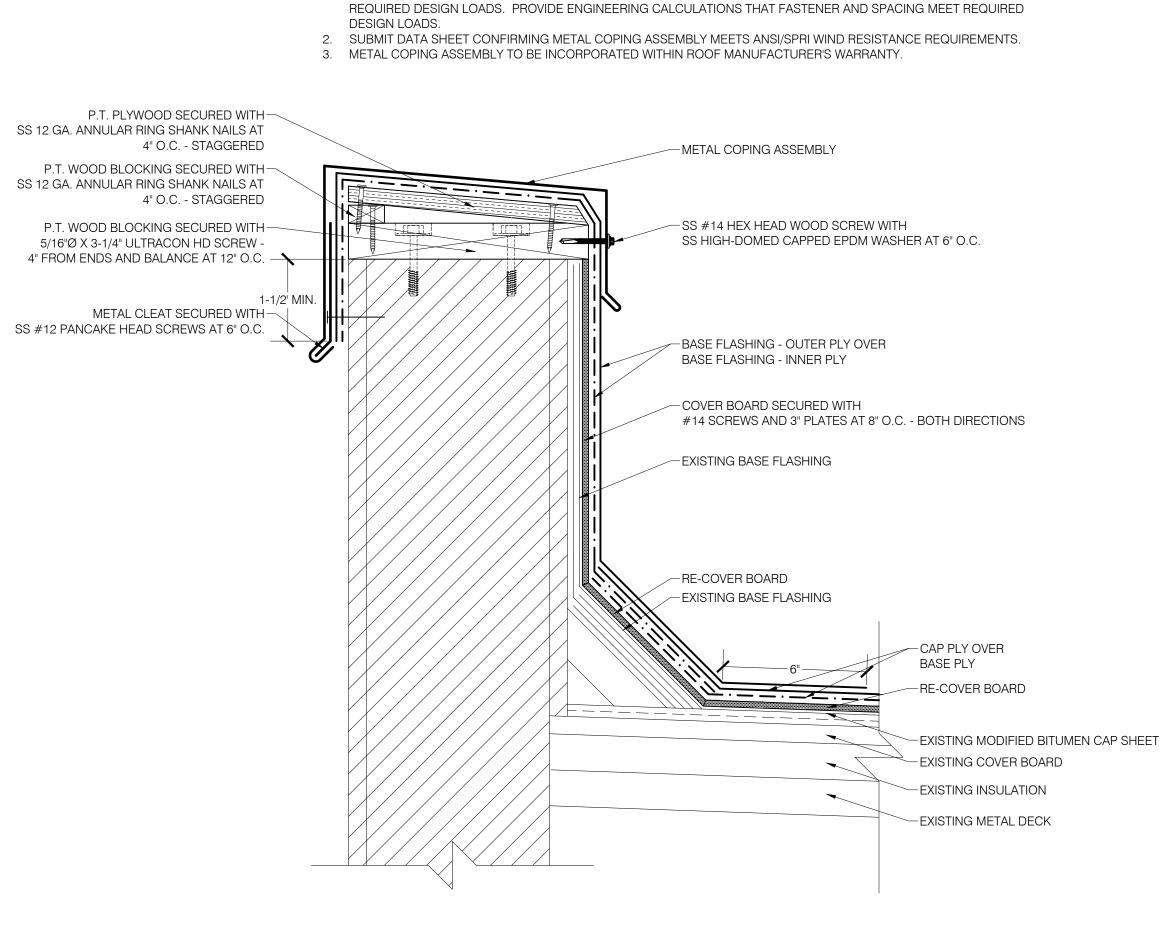
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| DRAWN BY: APPROVED BY | | | PROJECT NUMBER: DATE:DECEMBE | |

ROOF DETAILS

METAL EDGE TRANSITION AT EXISTING WALKWAY ROOF

/ NTS

A2.03



1. PROVIDE PULL-OUT TESTS OF FASTENERS INTO EXISTING SUBSTRATES TO CONFIRM PULL-OUT VALUES MEET

NOTES A/A2.04:



В

A2.04

/ NTS

-CAP PLY OVER

STAINLESS STEEL

1/8" SOLID RIVET

ONE PER STRAP-

4" DEEP

4" WIDE

— X

TYPICAL ROOF EDGE WITH GUTTER

BASE PLY

BUILDINGS 7 AND 8 -

-METAL DRIP EDGE SECURED WITH 10D STAINLESS STEEL RING-SHANK NAILS AT 3" O.C. - STAGGERED 1/2"

-METAL CLEAT SECURED WITH 8D STAINLESS STEEL RING-SHANK NAILS AT 6" O.C. - STAGGERED 1/2"

-SS #14 PANCAKE HEAD SCREW - TWO PER BRACKET - GUTTER STRAP AT 30" O.C. - ALTERNATE W/ BRACKET

-GUTTER BRACKET AT 30" O.C.

- GUTTER SLOPE A MINIMUM OF

1/16" / FT. TO DOWNSPOUT

ALTERNATE W/STRAPS

-GUTTER

SLOPE OF GUTTER - BEYOND

- DOWNSPOUT STRAP

GUTTER THROAT

TO START 6" FROM ENDS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. P.T. WOOD BLOCKING: PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY: BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS STFF

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL.

FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304. GOOSENECK FLASHING: 20 GAGE STAINLESS STEEL, TYPE 304. GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL. TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. **GUTTER BRACKET:** 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY.

METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304 WITH PRE-PUNCHED HOLES AT 6" O.C.

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS. CLASS 100/50. APPLIED TO PRIMED SURFACES. **SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

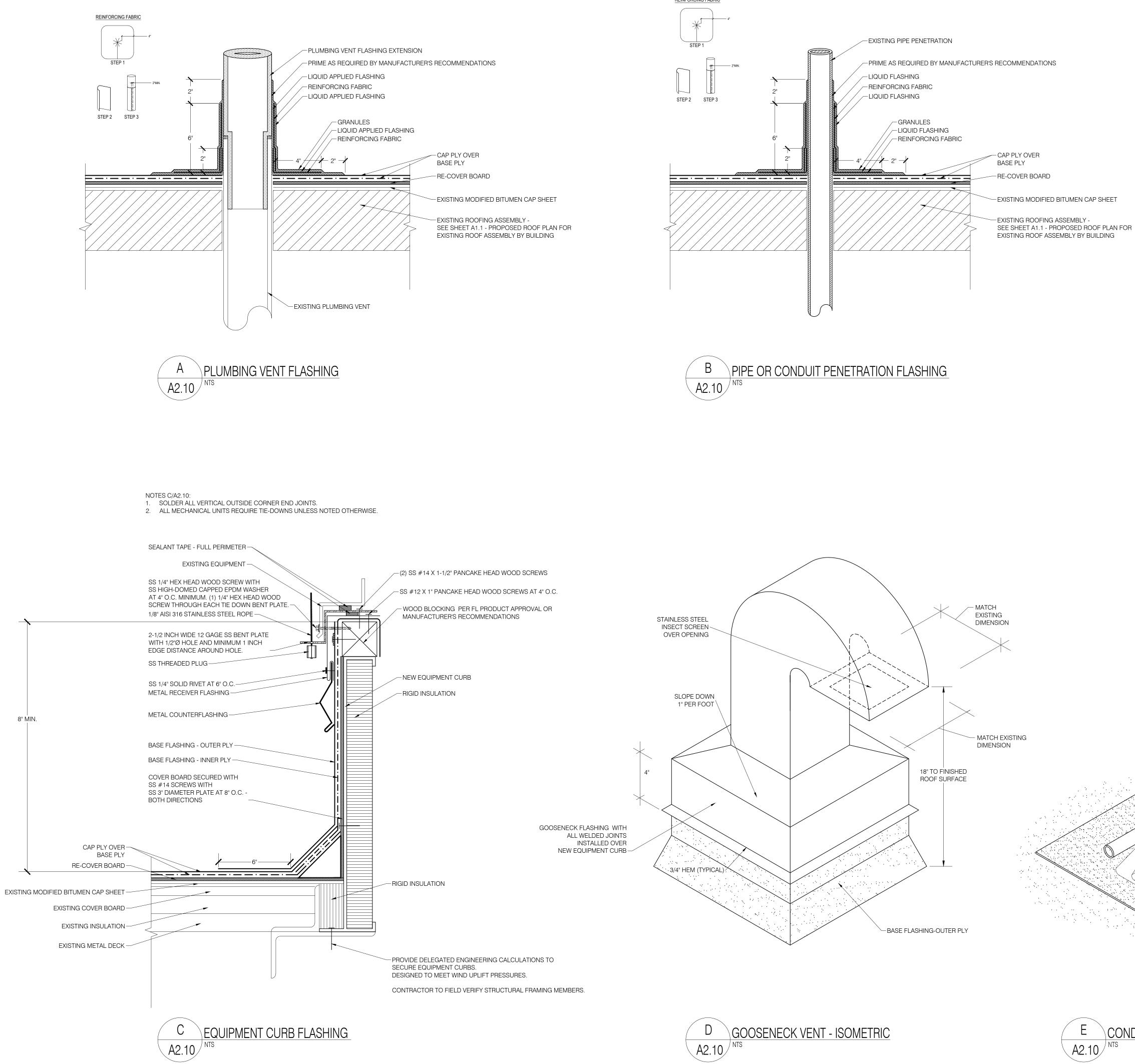
PROJECT NUMBER:

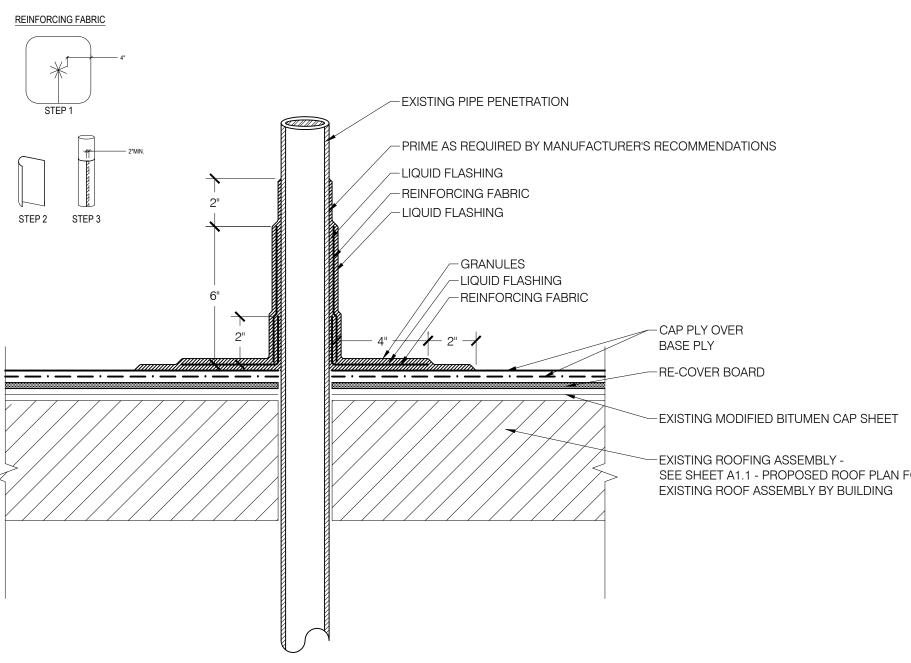
JAY AMMON ARCHITECT, INC.

126 PARK AVENUE SOUTH, SUITE A . WINTER PARK, FLORIDA 32789 (407) 333-1977 🔹 FAX: (407) 333-4686 🔹 E MAIL: JAY@JAYAMMON.COM

| | | REVISIONS | | |
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| NUMBER | TYPE | | DATE: | |
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| | | | | |
| DRAWN BY: _ APPROVED B | | | PROJECT NUMBER: DATE: DECEMBER | |

ROOF DETAILS A2.04







MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. P.T. WOOD BLOCKING: PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY: BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS STFF

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL.

FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304. **GOOSENECK FLASHING:** 20 GAGE STAINLESS STEEL, TYPE 304. GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY

METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

304 WITH PRE-PUNCHED HOLES AT 6" O.C. **ONE-PIECE TRANSITION FLASHING:** 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD. **BUTYL SEALANT:** ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

- CONDENSATE LINE PIPE SUPPORTS AT 4' O.C. SET SUPPORT IN STRUCTURAL SEALANT - ADDITIONAL LAYER OF CAP SHEET ROOF MEMBRANE 8" WIDER THAN SUPPORT

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

> ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER:

JAY AMMON ARCHITECT, INC.

126 PARK AVENUE SOUTH, SUITE A . WINTER PARK, FLORIDA 32789 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM

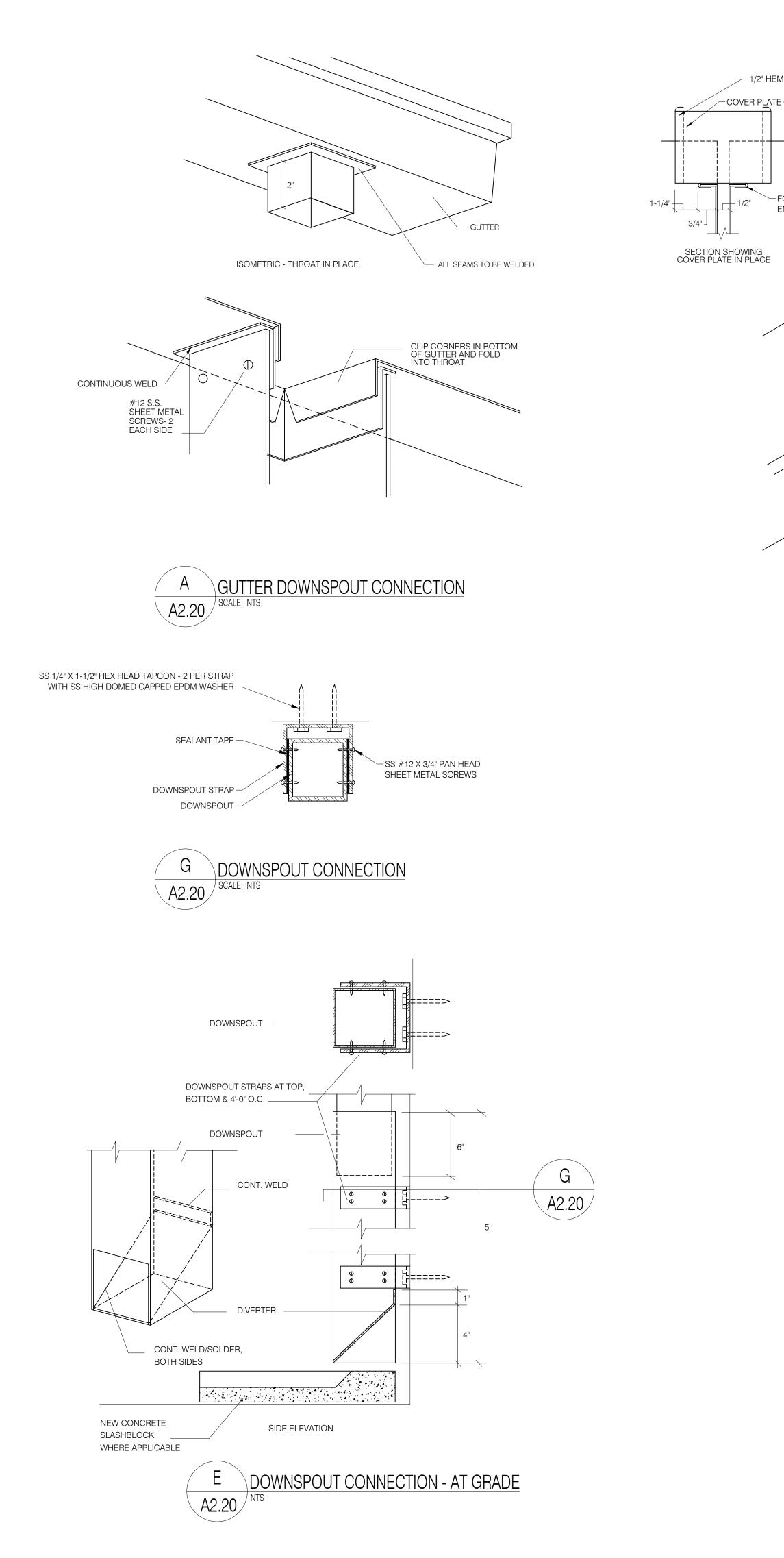
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| DRAWN BY: APPROVED B | | | PROJECT NUMBER: 23-076 DATE: DECEMBER 15, 2023 |

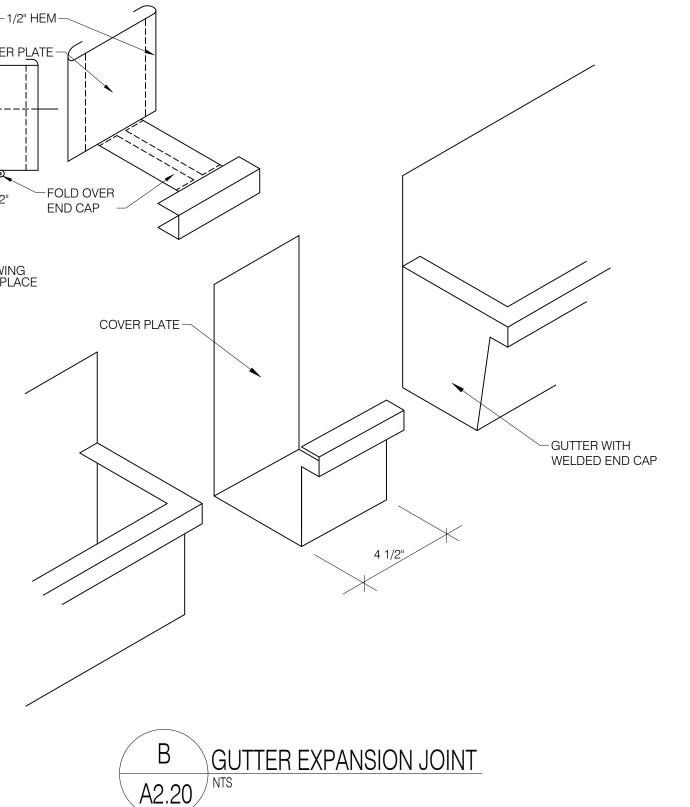
ROOF DETAILS

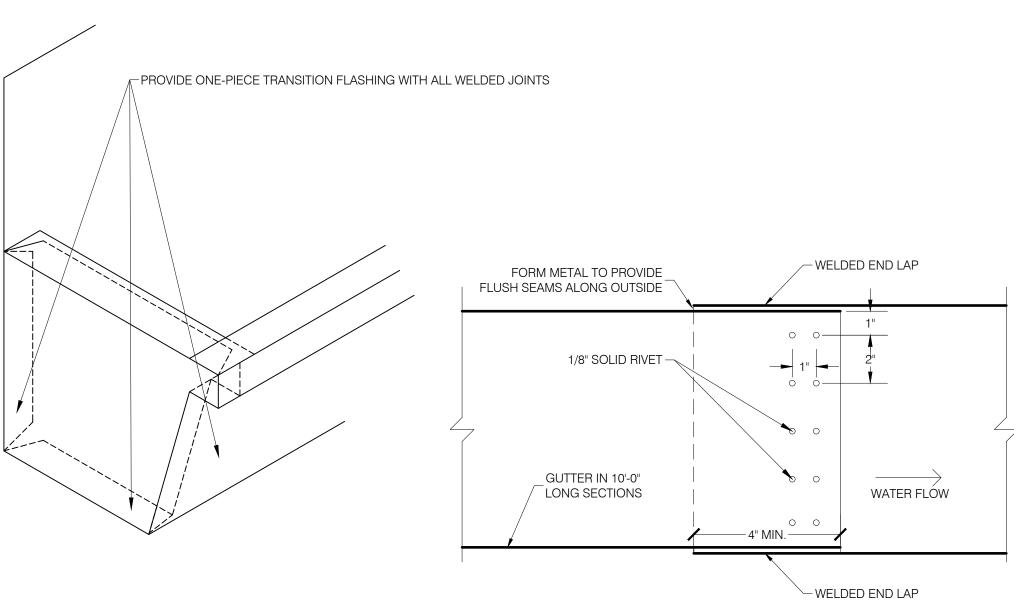
PLOT: 3" = 1'-0"

CONDENSATE LINE SUPPORT

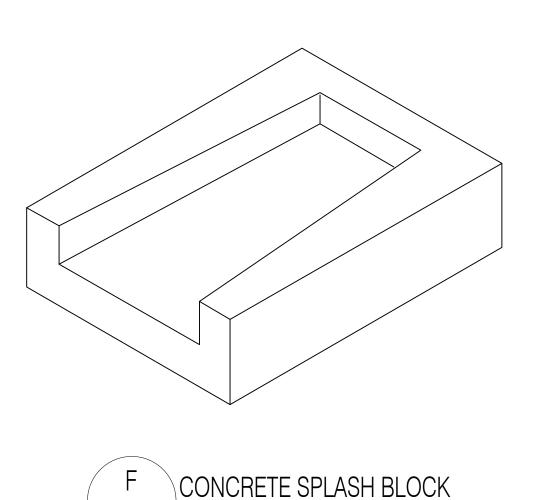
-EXISTING CONDENSATE LINE











/ NTS

A2.20

GUTTER END LAP / NTS A2.20

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. **P.T. WOOD BLOCKING:** PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY: BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE 304

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS STFF

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL. FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304.

GOOSENECK FLASHING: 20 GAGE STAINLESS STEEL, TYPE 304. GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. **GUTTER BRACKET:** 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY. METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE

METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304 WITH PRE-PUNCHED HOLES AT 6" O.C.

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER:

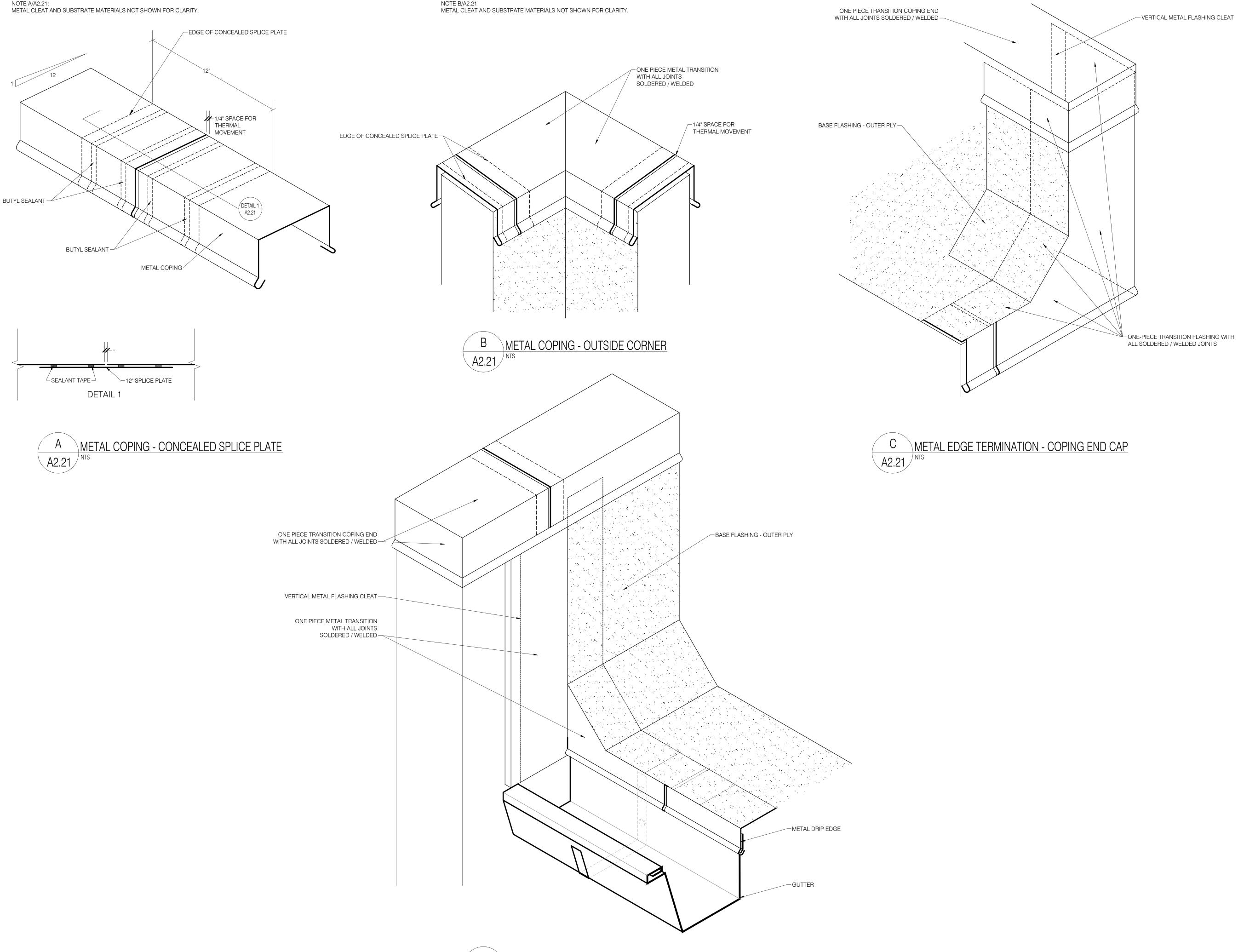
JAY AMMON ARCHITECT, INC.

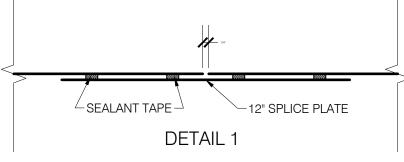
126 PARK AVENUE SOUTH, SUITE A 🔹 WINTER PARK, FLORIDA 32789 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM

| NUMBER | TYPE | REVISIONS | DATE: |
|---------------------------|------|-----------|---|
| DRAWN BY: _ APPROVED E | | | PROJECT NUMBER:23-076 DATE:DECEMBER 15, 2023 |

ROOF DETAILS A2.20









D METAL EDGE / GUTTER TERMINATION AT PARAPET WALL NTS A2.21

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY

PLYWOOD: EXTERIOR GRADE PRESSURE TREATED PLYWOOD. **P.T. WOOD BLOCKING:** PRESSURE TREATED WOOD MECHANICALLY ATTACHED TO SUBSTRATE.

SBS MODIFIED BITUMINOUS ROOFING

RECOVER ROOF ASSEMBLY: BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE SHEET BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST.

CANT STRIP: BASIS OF DESIGN: "SOPRACANT MB" MANUFACTURED BY SOPREMA.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. LIQUID-APPLIED FLASHING: A THREE-COAT, POLYESTER REINFORCED LIQUID-APPLIED FLASHING BY ROOF MEMBRANE MANUFACTURER.

RE-COVER BOARD: 1/4" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6164, TYPE 2, WITH COLOR

CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. WALL COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

PERIMETER ROOF ASSEMBLY: MANUFACTURED BY SIPLAST.

BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER SUBSTRATE BELOW. BASIS OF DESIGN: "PARATECH 180 BASE TG" MANUFACTURED BY SIPLAST. BASE SHEET: ASPHALT BASE SHEET.

CAP PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6164, TYPE 1, TORCH-APPLIED OVER BASE PLY BELOW. BASIS OF DESIGN: "PARATECH 180 CAP TG" MANUFACTURED BY SIPLAST. COVER BOARD: MIN. 1/2" ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG CORP.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A MINIMUM1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME.

SHEET METAL FLASHING & TRIM*

*ALL SHEET METAL FLASHINGS REQUIRE SHOP DRAWINGS AND IN-PLACE MOCK-UP FOR OWNER / ARCHITECT APPROVAL PRIOR TO ADDITIONAL FABRICATION AND INSTALLATION OF SIMILAR DETAIL. CONCEALED SPLICE PLATE: 24 GAGE STAINLESS STEEL, TYPE 304

DOWNSPOUT: 4" X 4" X 22 GAGE STAINLESS STEEL. **DOWNSPOUT STRAP:** 1/8" THICK X 1" WIDE 22 GAGE STAINLESS STFF

EQUIPMENT CURB: 14 GAGE, G90 GALVANIZED STEEL. FASCIA TRIM: 24 GAGE STAINLESS STEEL, TYPE 304.

GOOSENECK FLASHING: 20 GAGE STAINLESS STEEL, TYPE 304. GUTTER: 6 INCH BEVELED BOX GUTTER. 22 GA. STAINLESS STEEL, TYPE 304 WITH ALL NON-MOVING JOINTS SOLDERED / WELDED. GUTTER BRACKET: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304

GUTTER STRAPS: 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE

METAL CLEAT: 22 GAGE STAINLESS STEEL, TYPE 304. METAL COPING ASSEMBLY: 22 GAGE STAINLESS STEEL, TYPE 304, SHOP FABRICATED METAL COPING ASSEMBLY THAT IS INCLUDED WITHIN MANUFACTURER'S WARRANTY.

METAL COUNTERFLASHING: 24 GAGE STAINLESS STEEL, TYPE METAL DRIP EDGE: 22 GAGE STAINLESS STEEL, TYPE 304.

METAL RECEIVER FLASHING: 24 GAGE STAINLESS STEEL, TYPE **TERMINATION BAR:** 1/8" THICK X 1" WIDE STAINLESS STEEL, TYPE 304 WITH PRE-PUNCHED HOLES AT 6" O.C.

ONE-PIECE TRANSITION FLASHING: 24 GAGE STAINLESS STEEL, TYPE 304.

ROOF ACCESSORIES PLUMBING VENT FLASHING EXTENSION: PRE-FABRICATED PVC EXTENSIONS.

JOINT SEALANTS

BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS. CLASS 100/50. APPLIED TO PRIMED SURFACES. SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE II, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8

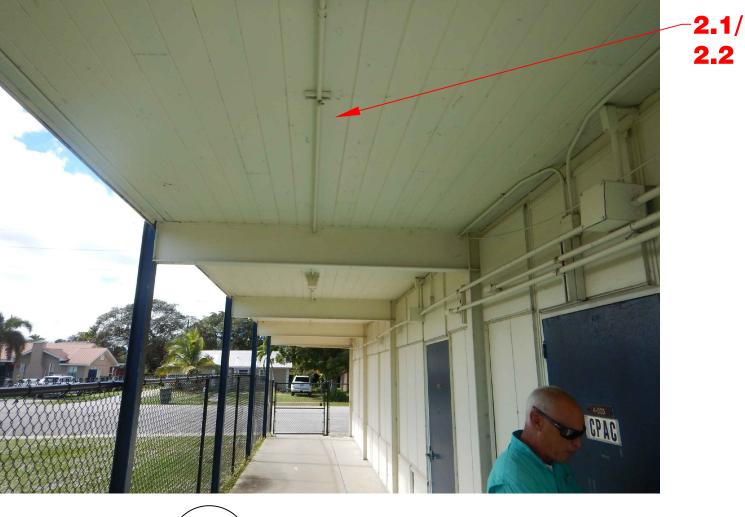
PROJECT NUMBER:

JAY AMMON ARCHITECT, INC.

126 PARK AVENUE SOUTH, SUITE A . WINTER PARK, FLORIDA 32789 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM

| | | REVISIONS | 5 | |
|-----------------------|------|-----------|----------------------------------|--|
| NUMBER | TYPE | | DATE: | |
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| DRAWN BY: APPROVED | | | PROJECT NUMBER: DATE:DECEMBEF | |

ROOF DETAILS A2.21 SHEET

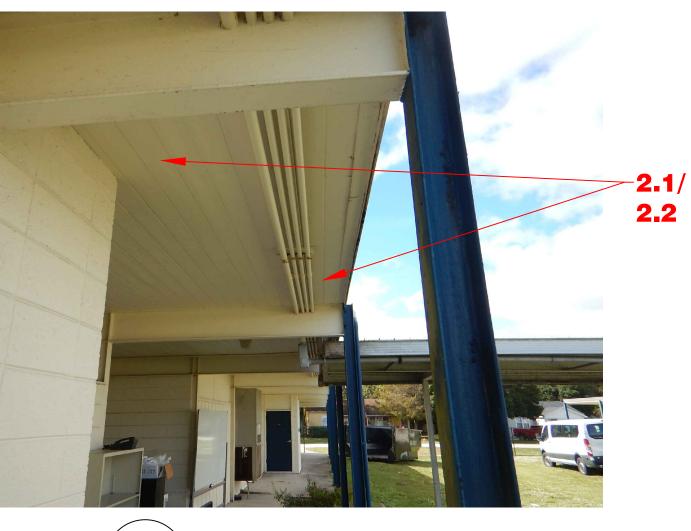




EAST OVERHANG - BLDG. 4



NORTH OVERHANG LOOKING WEST - BLDG. 4





OVERALL ROOF - BLDG. 4



5 PHOTOGRAPH 5 A3.0/

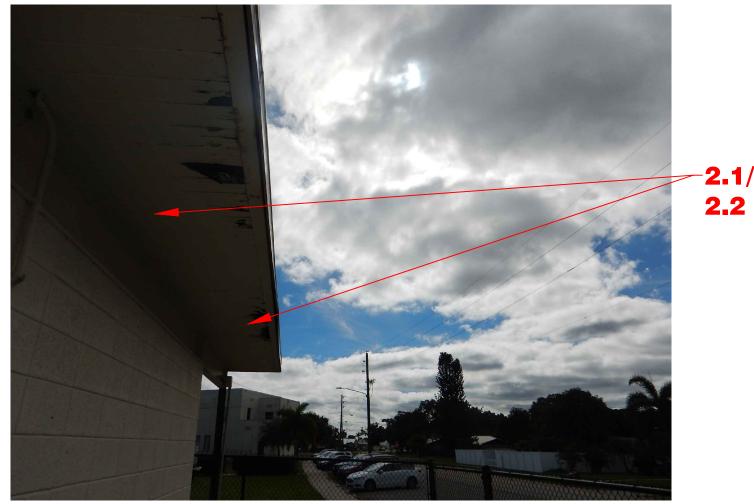
UPPER ROOF - BLDG. 5













SOUTH ELEVATION - BLDG. 5





UPPER ROOF - BLDG. 5





SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 2.0 ROOFING ASSEMBLY REPLACEMENT AND RECOVER BUILDING 4:
- 2.1 DEMOLITION OF PERIMETER OF EXISTING ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED, AT THE PERIMETER OF BUILDING 4. REMOVE EXISTING ROOFING ASSEMBLY, INCLUDING THE ROOF MEMBRANES, FASTENERS AND INSULATION FROM THE TOP SURFACE OF THE EXISTING WOOD DECK. REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES. TRIM AND TRANSITION FLASHINGS. WHERE REQUIRED AT THE WOOD DECK REPLACEMENT. REMOVE EXISTING CONDUITS FROM THE UNDERSIDE OF WOOD DECK AND REINSTALL AFTER NEW ROOFING ASSEMBLY IS INSTALLED. USE STAINLES STEEL FASTENERS AT ALL WOOD DECK ATTACHMENTS. REPLACE ANY DETERIORATED WOOD DECK. PROVIDE AN ALLOWANCE IN THE BASE BID FOR REPLACEMENT OF 200 SQUARE FEET OF WOOD DECK AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. AT THE EAST AND WEST ENDS OF THE OVERHANG, ANY WOOD DECK REPLACEMENT MAY REQUIRE ADDITIONAL ROOF ASSEMBLY REMOVAL TO ACCESS AN EXISTING BEAM FOR PROPER SUPPORT OF THE NEW WOOD DECK. INCLUDE AN ADDITIONAL 150 SQUARE FEET OF THE EXISTING ROOF ASSEMBLY REPLACEMENT IN BASE BID AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. PROVIDE ENGINEERING
- CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER FOR THE NEW WOOD DECK ATTACHMENT METHOD. 2.2 NEW PERIMETER ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED AT THE PERIMETER OF BUILDING 4, WHERE EXISTING ROOF ASSEMBLY WAS REMOVED, MECHANICALLY ATTACH A 15 LB. FIBERGLASS ASPHALTIC BASE SHEET OVER ALL EXISTING AND NEW WOOD DECK. INSTALL FLAT AND TAPERED POLYSOCYANURATE INSULATION OVER THE EXISTING AND NEW REPLACED WOOD DECK, MATCHING THE ADJACENT THICKNESS OF EXISTING ROOF INSULATION. MECHANICALLY ATTACH A COVER BOARD THROUGH THE NEW INSULATION AND INTO THE EXISTING OR REPLACED WOOD DECK MATCHING THE ADJACENT THICKNESS OF THE EXISTING ROOF COVER BOARD. FASTENERS ARE NOT TO PENETRATE THE UNDERSIDE OF THE EXISTING OR NEW WOOD DECK. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD AND OVERLAP THE EXISTING ROOFING ASSEMBLY A MINIMUM OF 12 INCHES. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE
- 2.3 NEW FINAL RECOVER ROOFING ASSEMBLY AT BUILDING 4: INSTALL A NEW 4'X 4'X 1/4" COVER BOARD OVER THE NEW PERIMETER ROOFING ASSEMBLY AND EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 2.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 3.0 ROOFING ASSEMBLY RECOVER BUILDING 5:
- 3.1 DEMOLITION: REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES, TRIM AND TRANSITION FLASHINGS. 3.2 NEW FINAL RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4'X 4'X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 3.3 BASE FLASHINGS BUILDING 5: WHERE DESIGNATED, MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. OVER ALL GYPSUM-FIBER COVER BOARD, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTER PLY OVER THE COVER BOARD
- 3.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 4.0 ROOFING ASSEMBY RECOVER BUILDINGS 7 AND 8:

-**N.I.C.**

- 4.1 DEMOLITION: REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO COPINGS, EDGES, TRANSITION FLASHINGS AND GUTTERS.
- 4.2 NEW RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4' X 4' X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 4.3 BASE FLASHINGS: MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. INSTALL A GYPUSM-FIBER COVER BOARD UP ALL OTHER ADJACENT VERTICAL SURFACES. OVER ALL GYPSUM-FIBER COVER BOARD INSTALLED, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTER PLY OVER THE COVER BOARDS
- 4.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 4.5 ROOF DRAINAGE: WHERE DESIGNATED, INSTALL NEW STAINLESS STEEL GUTTERS AND DOWNSPOUTS. FABRICATE AND INSTALL STAINLESS STEEL GUTTERS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS.
- 5.0 ROOF MOUNTED EQUIPMENT BUILDING 7:
- 5.1 ROOF MOUNTED EQUIPMENT TO REMAIN: REINSTALL ALL EXISTING ROOF MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT OVER NEW EQUIPMENT CURBS. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA. REROUTE AND RECONNECT ALL ELECTRICAL, PLUMBING, CHILLED WATER OR REFRIGERANT LINES, AND ALL OTHER CONNECTIONS REQUIRED FOR THE EQUIPMENT TO FUNCTION PROPERLY. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT.
- 5.2 TRAFFIC PADS: INSTALL ROOF TRAFFIC PADS OF CONTRASTING COLOR RECOMMENDED BY THE ROOF MEMBRANE MANUFACTURER FROM ALL ROOF ACCESS POINTS, BETWEEN ALL EQUIPMENT, AND AROUND ALL MECHANICAL EQUIPMENT THAT REQUIRES SERVICING. INSTALL 2 INCH DRAINAGE SLOTS BETWEEN EACH ROOF TRAFFIC PAD AS REQUIRED BY THE MANUFACTURER.
- 5.3 CONDENSATE LINE STANDS: INSTALL CONDENSATE LINES OVER NEW NON-PENETRATING PIPE SUPPORTS AT 4'-0" O.C. INSTALL CONDENSATE LINE STANDS OVER EQUIPMENT MEMBRANE PADS THAT ARE APPLIED OVER THE FINISHED ROOF MEMBRANE EXTEND THE EQUIPMENT MEMBRANE PADS A MINIMUM OF 2 INCHES BEYOND ALL EDGES OF THE SUPPORT.
- 5.4 GOOSENECK VENT FLASHINGS: INSTALL NEW STAINLESS STEEL GOOSENECK VENT FLASHINGS WITH ALL SOLDERED/WELDED NON-MOVING JOINTS OVER NEW EQUIPMENT CURBS ATTACHED TO THE EXISTING DECK.
- 6.0 PLUMBING VENT FLASHINGS: EXISTING PLUMBING VENTS ARE TO REMAIN. WHERE DESIGNATED, REMOVE EXISTING PLUMBING VENT FLASHINGS AND INSTALL NEW LIQUID-APPLIED FLASHING, APPROVED BY ROOF MEMBRANE MANUFACTURER, TIEING INTO NEW ROOFING ASSEMBLY.

7.0 ALTERNATE 1 · BUILDINGS 4 AND 5:

7.1 GUTTERS AND DOWNSPOUTS: INSTALL STAINLESS STEEL GUTTERS AND DOWNSPOUTS AROUND THE PERIMETER OF THE BUILDINGS. DOWNSPOUTS ARE TO BE INSTALLED AT 24' O.C. AND ATTACHED TO EXISTING COLUMNS. TWO DOWNSPOUTS ARE TO BE INSTALLED ON EACH SIDE OF THE EAST AND WEST SIDES OF THE BUILDINGS.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER:

JAY AMMON ARCHITECT, INC. 126 PARK AVENUE SOUTH, SUITE A • WINTER PARK, FLORIDA 32789 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM REVISIONS NUMBER

| DRAWN | BY: JSJ | PROJECT | NUMBER: | 23-076 |
|--------|------------|-------------|----------|----------|
| APPRO\ | ED BY: JPA | DATE: | DECEMBER | 15, 2023 |
| | | | | |

PHOTOGRAPHS A3.0

| PLOT: | N.T.S. |
|-------|--------|

SHEET

NORTH ELEVATION - BLDG. 7









ROOF MOUNTED EQUIPMENT - BLDG. 7

OVERALL ROOF - BLDG. 7





OVERALL ROOF - BLDG. 8



6 \PHOTOGRAPH 6 \A3.1/

SOUTH ELEVATION - BLDG. 8













SCOPE OF WORK

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 2.0 ROOFING ASSEMBLY REPLACEMENT AND RECOVER BUILDING 4:
- 2.1 DEMOLITION OF PERIMETER OF EXISTING ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED, AT THE PERIMETER OF BUILDING 4, REMOVE EXISTING ROOFING ASSEMBLY, INCLUDING THE ROOF MEMBRANES, FASTENERS AND INSULATION FROM THE TOP SURFACE OF THE EXISTING WOOD DECK. REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES, TRIM AND TRANSITION FLASHINGS. WHERE REQUIRED AT THE WOOD DECK REPLACEMENT, REMOVE EXISTING CONDUITS FROM THE UNDERSIDE OF WOOD DECK AND REINSTALL AFTER NEW ROOFING ASSEMBLY IS INSTALLED. USE STAINLESS STEEL FASTENERS AT ALL WOOD DECK ATTACHMENTS. REPLACE ANY DETERIORATED WOOD DECK. PROVIDE AN ALLOWANCE IN THE BASE BID FOR REPLACEMENT OF 200 SQUARE FEET OF WOOD DECK AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. AT THE EAST AND WEST ENDS OF THE OVERHANG, ANY WOOD DECK REPLACEMENT MAY REQUIRE ADDITIONAL ROOF ASSEMBLY REMOVAL TO ACCESS AN EXISTING BEAM FOR PROPER SUPPORT OF THE NEW WOOD DECK. INCLUDE AN ADDITIONAL 150 SQUARE FEET OF THE EXISTING ROOF ASSEMBLY REPLACEMENT IN BASE BID AND INCLUDE A UNIT PRICE IN THE BID FORM TO ADJUST THE QUANTITY FOR ACTUAL FIELD CONDITIONS. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER FOR THE NEW WOOD DECK ATTACHMENT METHOD.
- 2.2 NEW PERIMETER ROOFING ASSEMBLY AT BUILDING 4: WHERE DESIGNATED AT THE PERIMETER OF BUILDING 4, WHERE EXISTING ROOF ASSEMBLY WAS REMOVED, MECHANICALLY ATTACH A 15 LB. FIBERGLASS ASPHALTIC BASE SHEET OVER ALL EXISTING AND NEW WOOD DECK. INSTALL FLAT AND TAPERED POLYSOCYANURATE INSULATION OVER THE EXISTING AND NEW REPLACED WOOD DECK. MATCHING THE ADJACENT THICKNESS OF EXISTING ROOF INSULATION. MECHANICALLY ATTACH A COVER BOARD THROUGH THE NEW INSULATION AND INTO THE EXISTING OR REPLACED WOOD DECK MATCHING THE ADJACENT THICKNESS OF THE EXISTING ROOF COVER BOARD. FASTENERS ARE NOT TO PENETRATE THE UNDERSIDE OF THE EXISTING OR NEW WOOD DECK. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD AND OVERLAP THE EXISTING ROOFING ASSEMBLY A MINIMUM OF 12 INCHES. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE
- 2.3 NEW FINAL RECOVER ROOFING ASSEMBLY AT BUILDING 4: INSTALL A NEW 4'X 4'X 1/4" COVER BOARD OVER THE NEW PERIMETER ROOFING ASSEMBLY AND EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 2.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 3.0 ROOFING ASSEMBLY RECOVER BUILDING 5:
- 3.1 DEMOLITION: REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO EDGES, TRIM AND TRANSITION FLASHINGS. 3.2 NEW FINAL RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4' X 4' X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY.
- 3.3 BASE FLASHINGS BUILDING 5: WHERE DESIGNATED, MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. OVER ALL GYPSUM-FIBER COVER BOARD, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTEF PLY OVER THE COVER BOARD.
- 3.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.

4.0 ROOFING ASSEMBY RECOVER - BUILDINGS 7 AND 8:

- 4.1 DEMOLITION: REMOVE EXISTING METAL FLASHINGS INCLUDING BUT NOT LIMITED TO COPINGS, EDGES, TRANSITION FLASHINGS AND GUTTERS.
- 4.2 NEW RECOVER ROOFING ASSEMBLY: INSTALL A NEW 4'X 4'X 1/4" COVER BOARD OVER THE EXISTING ROOFING ASSEMBLY IN ADHESIVE AT RIBBON SPACING OF 6 INCHES ON CENTER. TORCH APPLY A MODIFIED BITUMINOUS BASE PLY OVER THE COVER BOARD. TORCH APPLY A GRANULATED MODIFIED BITUMINOUS CAP PLY OVER THE BASE PLY
- 4.3 BASE FLASHINGS: MECHANICALLY ATTACH A GYPSUM-FIBER COVER BOARD OVER THE EXISTING VERTICAL BASE FLASHINGS INTO STRUCTURAL FRAMING. INSTALL A GYPUSM-FIBER COVER BOARD UP ALL OTHER ADJACENT VERTICAL SURFACES. OVER ALL GYPSUM-FIBER COVER BOARD INSTALLED, TORCH APPLY A SMOOTH MODIFIED BITUMINOUS BASE FLASHING-INNER PLY AND A GRANULATED MODIFIED BITUMINOUS BASE FLASHING-OUTER PLY OVER THE COVER BOARDS.
- 4.4 METAL FLASHINGS: FABRICATE AND INSTALL STAINLESS STEEL, TYPE 304, FLASHINGS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS. ALL EXPOSED FASTENERS TO BE TYPE 304 STAINLESS STEEL WITH STAINLESS STEEL SEALING WASHER. INSTALL MOCK-UP OF ALL FLASHING DETAILS FOR OWNER/ARCHITECT APPROVAL PRIOR TO INSTALLING MORE OF SIMILAR DETAIL.
- 4.5 ROOF DRAINAGE: WHERE DESIGNATED, INSTALL NEW STAINLESS STEEL GUTTERS AND DOWNSPOUTS. FABRICATE AND INSTALL STAINLESS STEEL GUTTERS COMPLYING WITH ALL ANSI / SPRI WIND RESISTANCE REQUIREMENTS AND WITH FULLY SOLDERED NON-MOVING SEAMS.

5.0 ROOF MOUNTED EQUIPMENT - BUILDING 7:

- 5.1 ROOF MOUNTED EQUIPMENT TO REMAIN: REINSTALL ALL EXISTING ROOF MOUNTED MECHANICAL AND ELECTRICAL EQUIPMENT OVER NEW EQUIPMENT CURBS. A RECEPTACLE OUTLET SHALL BE PROVIDED FOR ALL EQUIPMENT REQUIRING SERVICE IN A LOCATION IN ACCORDANCE WITH NFPA. REROUTE AND RECONNECT ALL ELECTRICAL, PLUMBING, CHILLED WATER OR REFRIGERANT LINES, AND ALL OTHER CONNECTIONS REQUIRED FOR THE EQUIPMENT TO FUNCTION PROPERLY. INSTALL HOLD DOWN STRAPS TO PREVENT WIND DISPLACEMENT.
- 5.2 TRAFFIC PADS: INSTALL ROOF TRAFFIC PADS OF CONTRASTING COLOR RECOMMENDED BY THE ROOF MEMBRANE MANUFACTURER FROM ALL ROOF ACCESS POINTS, BETWEEN ALL EQUIPMENT, AND AROUND ALL MECHANICAL EQUIPMENT THAT REQUIRES SERVICING. INSTALL 2 INCH DRAINAGE SLOTS BETWEEN EACH ROOF TRAFFIC PAD AS REQUIRED BY THE MANUFACTURER.
- 5.3 CONDENSATE LINE STANDS: INSTALL CONDENSATE LINES OVER NEW NON-PENETRATING PIPE SUPPORTS AT 4'-0" O.C. INSTALL CONDENSATE LINE STANDS OVER EQUIPMENT MEMBRANE PADS THAT ARE APPLIED OVER THE FINISHED ROOF MEMBRANE. EXTEND THE EQUIPMENT MEMBRANE PADS A MINIMUM OF 2 INCHES BEYOND ALL EDGES OF THE SUPPORT.
- 5.4 GOOSENECK VENT FLASHINGS: INSTALL NEW STAINLESS STEEL GOOSENECK VENT FLASHINGS WITH ALL SOLDERED/WELDED NON-MOVING JOINTS OVER NEW EQUIPMENT CURBS ATTACHED TO THE EXISTING DECK.
- 6.0 PLUMBING VENT FLASHINGS: EXISTING PLUMBING VENTS ARE TO REMAIN. WHERE DESIGNATED, REMOVE EXISTING PLUMBING VENT FLASHINGS AND INSTALL NEW LIQUID-APPLIED FLASHING, APPROVED BY ROOF MEMBRANE MANUFACTURER, TIEING INTO NEW ROOFING ASSEMBLY.

7.0 ALTERNATE 1 · BUILDINGS 4 AND 5:

-4.1

4.4

7.1 GUTTERS AND DOWNSPOUTS: INSTALL STAINLESS STEEL GUTTERS AND DOWNSPOUTS AROUND THE PERIMETER OF THE BUILDINGS. DOWNSPOUTS ARE TO BE INSTALLED AT 24' O.C. AND ATTACHED TO EXISTING COLUMNS. TWO DOWNSPOUTS ARE TO BE INSTALLED ON EACH SIDE OF THE EAST AND WEST SIDES OF THE BUILDINGS.

CONSTRUCTION DOCUMENTS

HENDRY COUNTY SCHOOL DISTRICT CLEWISTON YOUTH DEVELOPMENT ACADEMY CLEWISTON, FLORIDA

ROOFING REPLACEMENT PROJECT BUILDINGS 4, 5, 7 AND 8 PROJECT NUMBER:

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| DRAWN BY: | JSJ | | | PROJECT NUMBER: 23-076 |
| APPROVED | | | _ | DATE: DECEMBER 15, 2023 |

PHOTOGRAPHS A3.1

PLOT: N.T.S.

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