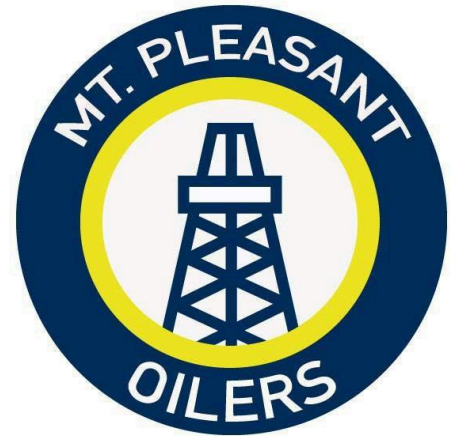


Mount Pleasant Public Schools

PROJECT MANUAL

Mount Pleasant Public Schools

Bid Pack No. 5
High School Gym Wall Repair



April 17, 2025

ARCHITECTS/ENGINEERS

Kingscott Associates, Inc.
950 Trade Centre Way, Suite 130
Portage, Michigan 49002
Telephone: (800) 632-7815

Kingscott
Creating Possibilities

CONSTRUCTION MANAGER

Wolgast Corporation
4835 Towne Centre Road, Suite 203
Saginaw, Michigan 48604
Telephone: (989) 790-9120
Fax: (989) 790-9063

Wolgast
CORPORATION

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END OF SECTION 00005

Mount Pleasant Public Schools will receive sealed bid proposals for construction trade work from qualified contractors for the **Mount Pleasant Public Schools, Bid Pack No. 5 - High School Gym Wall Repair**. A pre-bid meeting and project walk-through will be conducted by the Construction Manager, Wolgast Corporation, and the Architect, **Kingscott Associates, Inc.**, on **Thursday, April 24, 2025**, at **3:30 PM** (local time) at the **Mt Pleasant High School Cafeteria**.

Proposals may be mailed or delivered in person to **Jennifer Verleger, Superintendent**, c/o **Mount Pleasant Public Schools, 720 North Kinney Avenue, Mount Pleasant, MI 48858** or by **ELECTRONIC SEALED BIDDING via Building Connected**. Proposals must be received prior to **1:00 PM** (local time) on **Friday, May 9, 2025**, at the **Mount Pleasant Public Schools Administration Building (Kinney Elementary)** located at 720 North Kinney Avenue, Mount Pleasant, Michigan 48858 or **via Building Connected** (<https://app.buildingconnected.com/login?retUrl=%2F>). Proposals will be publicly opened and read aloud at **1:05 PM** in the **Kinney Elementary School Cafeteria** and virtually utilizing 8x8 Online Meeting: <https://8x8.vc/wolgast/chris.ice>. All bids will be evaluated after the bid opening. All bids received after **1:00 PM** of the bid date will be returned to the Bidder unopened.

The Project will utilize separate prime contractors. All contracts for construction will be direct contracts with the Owner. Overall administration of the Project will be the responsibility of the Construction Management Firm, Wolgast Corporation, 4835 Towne Centre, Suite 203, Saginaw, Michigan 48604, Phone: (989) 790-9120, Fax: (989) 790-9063. The Owner will award contracts on or about **May 19, 2025**, to separate prime contractors for separate bid divisions or combinations of bid divisions. A Bidder may submit a proposal on more than one Bid Division; however, a separate bid must be submitted for each Bid Division of a combined bid. All bids shall be submitted on the bid forms provided in the project specifications, completely filled in, and executed (copies of the bid forms are acceptable). Facsimile bids will not be accepted.

The Bidders shall read and review the Bidding Documents carefully, and familiarize themselves thoroughly with all requirements.

Requests by Contractors for inclusion, as Bidders shall be addressed to Wolgast Corporation. One (1) set of Bidding Documents will be provided to each contractor at No Cost. Plans may be obtained from Wolgast Corporation, attention **Judy Rauch** at jrauch@wolgast.com. All questions regarding the bidding procedures, design, and drawing/specification intent are to be directed to the Construction Manager on a Clarification Request Form (Section 00310), attention **Christopher Ice** at cice@wolgast.com and **Judy Rauch** at jrauch@wolgast.com.

A Bid Security by a qualified surety authorized to do business in the state where the Project is located in the amount of five percent (5%) of Base Bids shall accompany each proposal or proposal combination. The Bid Security may be in the form of a Bid Bond, Cashier's Check, or Money Order. Personal checks are NOT acceptable. Bids may not be withdrawn for a period of sixty (60) days after the bid date. Successful Bidders may be required to furnish Surety Bonds as stated in the Project Specifications (Section 00600).

The Owner reserves the right to reject any or all proposals, accept a bid other than the low bid, and to waive informalities, irregularities, and/or errors in the bid proposals, which they feel to be in their own best interest.

All bidders must provide familial disclosure in compliance with MCL 380.1267 and attach this information to the bid. The bid shall be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the Owner or the employee of the bidder and any member of the board, intermediate school board, or board of directors or the superintendent of the school district, intermediate superintendent of the intermediate school district, or chief executive officer of the public school academy. The District shall not accept a bid that does not include this sworn and notarized disclosure statement.

END OF SECTION 00010

PART 1 – GENERAL

1.01 DEFINITIONS

- A. The Owner is: **Mount Pleasant Public Schools.**
 - B. The Architect is: **Kingscott Associates, Inc.**
 - C. The Construction Manager is: **Wolgast Corporation.**
 - D. The Project Team consists of the Construction Manager, the Architect, and other design professionals providing services in connection with the project.
 - E. The Project is: **Mount Pleasant Public Schools, Bid Pack No. 5 - High School Gym Wall Repair**
 - F. Work is any portion of the Project.
 - G. The Bidding Documents include (as applicable to the Project):
 - 1. The Notice to Bidders.
 - 2. The Instructions to Bidders.
 - 3. Bid Division Descriptions.
 - 4. Proposal Forms.
 - 5. Sample Contract Forms.
 - 6. The Specifications for the Project.
 - 7. The Drawings for the Project.
 - 8. All Addenda issued for the Project.
 - 9. The Preliminary Milestone Schedule.
 - H. Addenda are written and/or graphic instruments issued by the Architect, which add to, delete from, clarify, or correct the Bidding Documents.
 - I. Bids are sums stipulated in Proposals for which Bidders propose to perform the Work of Bid Divisions.
 - J. Base Bids are sums stipulated in Proposals for which Bidders offer to perform the Work of Bid Divisions, and which Alternate Bids may be added to or deleted from.
 - K. Alternate Bids are sums that may be added to or deleted from Base Bids for the performance of Alternate Work, as delineated in the Bidding Documents.
 - L. Unit Prices are sums included in Proposals as Bids per unit measure of materials and/or services, as required by the Bidding Documents.
 - M. Proposals are complete, properly executed forms including Base Bids, Alternate Bids, Unit Prices, and other information requested by the Owner.
 - N. Bidders are pre-qualified contractors who submit proposals to the Owner for Work as Prime Contractors on the Project.
 - O. Bid Divisions are the divisions of Work into which the Project is divided for bidding. Bid Divisions shall not be confused with Technical Specification Divisions.
 - P. Bid Division Descriptions (Section 00309) are written descriptions of the Work included in the Bid Divisions.
- Wolgast Corporation – Construction Management

1.02 MULTIPLE PRIME CONTRACTS/BID DIVISIONS

- A. This is an Owner Represented Project. There is no General Contractor. All contracts awarded on the Project shall be prime contracts. The Owner will award contracts for each Bid Division and/or for groups of Bid Divisions. The Construction Manager will administrate the Project.
- B. Although each Bid Division involves an obvious and recognizable segment of “conventional” trade contracting, multiple contract project delivery requires that adjustments be made to permit the completion of each Bid Division as a separate segment of construction. Each bidder shall carefully review the total scope of their responsibilities with respect to the Work of their Bid Division(s), and shall provide for the total scope in their Proposal.
- C. Bid Division Descriptions (Section 00309) have been written to clearly delineate each Bid Division. The Owner is not responsible for a Bidder’s interpretation of the Bid Division Descriptions. Bidders are encouraged to request information by calling or emailing the Project Manager:

Christopher Ice, Project Manager, at cice@wolgast.com, and **Judy Rauch**, Project Administrator, jrauch@wolgast.com.

- D. For the purpose of clarity, the scope of work for each Bid Division may be divided into four categories: “GENERAL INCLUSIONS,” “DIVISION INCLUSIONS,” “PROJECT INCLUSIONS,” AND “EXCLUDED.”
1. Information provided under the heading “GENERAL INCLUSIONS” is the obvious and/or “conventional” work scope of each Bid Division.
 2. Information provided under “DIVISION INCLUSIONS” or “PROJECT INCLUSIONS” points out items which may be considered less obvious or “unconventional,” but which are included in the work scope of a particular Bid Division. (Information under these headings are not always necessary to delineate a Bid Division.)
 3. Information provided under “EXCLUDED” is for the purpose of indicating beginning and termination points, and/or to provide an understanding of fringe involvement included in Bid Divisions. (Information under this heading is not always necessary to delineate a Bid Division.)
- E. **Bidders shall construe nothing contained in the Bidding Documents, including the Bid Division Descriptions, as an assignment of work to any construction industry trade. Each Bidder is responsible for their own work assignments when making their proposal.**

1.03 INTERFACING BID DIVISIONS

- A. Each Bidder shall familiarize themselves with the work scope of all Bid Divisions that interface with their own. Each Bidder shall consider that the work of their Bid Division(s) may follow the work of another Division or other Divisions, and that other Contractors may perform work after the work of their Bid Division(s), and that other Contractors may work simultaneously with the work of their own Bid Division(s). Each Bidder shall include provisions for such interfaces and for cooperation with interfacing Contractors in their Proposal.

1.04 PRE-BID CONFERENCE

- A. **Mt Pleasant High School Cafeteria
1155 South Elizabeth Street
Mt Pleasant, MI 48858
Thursday, April 24, 2025 at 3:30 PM**

1.05 BIDDING DOCUMENTS

- A. Qualified Bidders have received sets of Bidding Documents. Requests from Bidders for additional sets of Bidding Documents will be honored under the conditions set forth in the Notice to Bidders (Section 00010).
- B. Following the award of construction contracts for the Project, all sets of Bidding Documents, plans, and specifications, except sets in possession of Contractors who have been awarded contracts, shall be returned to the Project Team.
- C. Bidders who return sets of Bidding Documents, plans, and specifications, in reasonably good condition shall have their plan deposit returned within ten (10) days of the Project Team's receipt of the documents.
- D. Bidders shall use complete sets of Bidding Documents in preparing Proposals. Bidders are responsible for ascertaining that the Bidding Documents upon which their Proposals are based are complete.
- E. Bidding Documents are provided to Bidders for uses pertaining to bidding only. No other use is permitted.
- F. Bidders shall promptly notify the Project Team of any ambiguities, inconsistencies, errors, and/or omissions they may discover in the Bidding Documents.
- G. Requests from Bidders for clarification or interpretation of the Bidding Documents must reach the Project Team five days before the bid date or by the date addressed in the pre-bid agenda. Any bidder clarifications which reach the Project Team after such dates have passed will not be considered.
- H. Changes and corrections to the Bidding Documents will be made by Addendum, and distributed to Bidders.
- I. Each Bidder shall ascertain prior to submitting their Proposal that they have considered every Addendum issued prior to the Bid Date, and shall acknowledge receipt of each Addendum in writing in their Proposal.

1.06 PRELIMINARY MILESTONE SCHEDULE

- A. The Preliminary Milestone Schedule is Section 00999 of this Project Manual.
- B. A Preliminary Milestone Schedule has been developed by the Construction Manager and supplied to the Bidders. Each Bidder is required to review the dates indicated in that Schedule, and either endorse or amend them within the context of the Bid Division(s) they are bidding. Space is provided on the Proposal Form for endorsement or amendment. The Milestone Schedule and the information it provides are not part of the Contract Documents.
- C. The milestone dates as endorsed and/or amended by successful bidders and accepted by the Owner will be used in the development of a Master Schedule to be used as a guide during the construction of the Project.
- D. Each Bidder is obligated to comment, in writing, on the Milestone Schedule if, in their opinion, the dates do not depict realistic time interval(s) for performance of the Work of their Bid Division(s)
- E. The effect of endorsements of and amendments to the Milestone Schedule will be considered when selecting Bidders for contract awards.

1.07 BID SECURITY

- A. Bid Security is required for this Project in the amount of five percent (5%). A surety company licensed, as such, to do business in the State of Michigan, must issue the Bid Bond, and all other Bonds. For additional information and instructions regarding Bid Security, refer to Section 00410.

1.07.1 AFFIDAVITS ACCOMPANYING BID PROPOSALS

- A. All Bid Proposals shall include the Familial Affidavit form (see Section 00306 – Familial Affidavit) to be included as part of the Bid Proposal.
- B. All Bid Proposals shall include the State of Michigan required Iran Economic Sanctions Affidavit form (see Section – 00307 – Iran Economic Sanctions) to be included as part of the Bid Proposal.

1.08 SUBSTITUTIONS

- A. The materials, products, and equipment described in the Bidding Documents establish the quality standard, required function, dimensions, and appearance, which shall be met by all substitutions.
- B. Contractors may request items not included in the construction bid documents be considered for inclusion as acceptably specified items by submitting a written request to the Project Team addressed to the Construction Manager not later than ten (10) days prior to the bid date. The Construction Manager will forward these written requests to the Architect who will make the determination whether the requested item is an acceptable “equal”. These acceptable “equal” items will be identified as acceptable by their inclusion in a written Addendum.
- C. Each substitution request will include a complete description of the proposed substitute, drawings, cuts, performance and test data, the name of the material or equipment for which it is to be substituted, and any other information necessary for evaluation. A statement setting forth any changes in other materials, equipment, or Work that incorporation of the substitute would require should also be included. The burden of proof of the merit of the proposed substitute is upon the Bidder. The Architect’s approval or disapproval of a proposed substitution shall be final.
- D. The bidder’s Base Bid contained in the Bid Proposal Form shall be the exact items contained in the construction bid documents (plans, specifications or addenda). The Base Bid contained in the Bid Proposal Form shall not include any substitute items not allowed in the construction bid documents.
- E. Bidders that have other substitutions to be considered for inclusion in the Project must identify them as Voluntary Alternates in the portion of the Bid Proposal Form so designated. The identity of these items must include the all product information and the dollar amount of increase or decrease associated with each individual substitute item.
- F. By making requests for any substitution, the Contractor represents:
 - 1. The Contractor has personally investigated the proposed substitution product and determined that it is equal to or superior to the product specified;
 - 2. The Contractor will provide the warranty for the substitution as the product specified;
 - 3. The cost data presented is complete and includes all related costs required for it to be incorporated into the Project including costs for additional Architectural and/or Construction Management services.
- G. The Architect will reply in writing to the Contractor, through the Construction Manager, stating whether the Owner or Architect, after due investigation, has reasonable objection to any substitution request. The decision of the Architect shall be final

1.09 VOLUNTARY ALTERNATES/VALUE ENGINEERING SUGGESTIONS

- A. Base Bids and Alternate Bids shall be based upon the Bidding Documents, including approved substitutions, and on the Bidders’ evaluation of the Project Site. However, the Owner invites Voluntary Alternates or Value Engineering suggestions consistent with the intent of the Bidding Documents. Such Alternates and suggestions, if submitted, shall be incorporated into Proposals by describing Voluntary Alternate(s) on company letterhead and attached to the Bid Proposal Form.

1.10 BID OPENING AND CONTRACT AWARDS

- A. Bids will be opened publicly after the time and date established for receipt of Proposals. Bid Summaries will be made available to Bidders by request after the Bid Date, but not before Post Bid Interviews have been conducted.
- B. Contract awards will be based on Bidders' Proposals and ability to perform. The Owner intends to award contracts to Bidders who submit proper Proposals in accordance with the requirements of the Bidding Documents.
- C. Decisions regarding Bidders abilities affecting contract awards will be made by the Owner.
- D. The Owner reserves the right to waive any informality or irregularity in any Proposal.
- E. The Owner reserves the right to reject any Proposal.
- F. All awards will be made in the Owner's best interest.

1.11 POST-BID INTERVIEWS

- A. Bidders in contention for contract awards will be required to attend Post-Bid Interviews and submit post-bid submittals in rough draft for review.

1.12 POST-BID SUBMITTALS

- A. Bidders who have been notified of the Owner's intent to award a contract shall submit the following items to the Construction Manager:
 - 1. A Schedule of Values utilizing the level of detail requested by the Owner (reference Section 00670).
 - 2. A list of all subcontractors and suppliers to be used, and all items of material and equipment to be incorporated into the Project (reference Section 00680).
 - 3. The name(s) of the on-site supervisor(s) whom the Bidder proposes to employ to accomplish the Work (reference Section 00690).
 - 4. Sample copies of the construction contracts are included in Sections 00510.

1.13 OWNER'S RIGHT TO APPROVE SUPPLIERS, SUBCONTRACTORS, MATERIALS, EQUIPMENT, AND EMPLOYEES

- A. Bidders will be required to establish, to the satisfaction of the Owner, the reliability and responsibility of proposed employees, suppliers and subcontractors, and the suitability of proposed materials and equipment.
- B. Prior to the award of a contract, the Construction Manager will notify the Bidder if the Owner has reasonable and substantial objection to any person, organization, material, or equipment listed by the Bidder. If the Owner has a reasonable and substantial objection, the Bidder shall amend their Proposal by providing an acceptable substitute. The Owner may, at their discretion, accept such a substitute, or they may disqualify the Proposal.
- C. Suppliers, subcontractors, employees, materials, and equipment proposed by the Bidder and accepted by the Owner shall be used on the Work for which they are proposed and accepted, and shall not be changed except with the written approval of the Owner.

1.14 BONDS

- A. Refer to Section 00600 for information and instructions regarding the bond requirements of this Project.

1.15 INSURANCE

- A. Refer to Sections 00650, and 00700 for information and instructions regarding insurance requirements for this Project.

PART 2 – FORMS FOR BIDDING

2.0 PROPOSAL FORMS

- A. Bidders are required to use the forms provided by the Owner for bidding purposes.
- B. Sample form(s) and instructions are in Section 00305 of this project manual.

PART 3 – PROCEDURES AND CONDITIONS FOR BIDDING

3.01 COMPLETION OF PROPOSAL FORMS

- A. Refer to Section 00300 for detailed information and instructions regarding completion of Proposal Forms.

3.02 SUBMISSION OF PROPOSALS

- A. Proposals shall be submitted to:

**Mount Pleasant Public Schools, Jennifer Verleger, Superintendent, 720 North Kinney Avenue
Mt Pleasant, MI 48858 or via Building Connected**

(Refer to Section 00010 – Notice to Bidders for additional information and instructions regarding the location for submittal of Proposals.)

- B. Proposals shall be submitted by **1:00 PM on Friday, May 9, 2025.**

(Refer to Section 00010 – Notice to Bidders for additional information and instructions regarding the date and time of submittal of Proposals.)

- C. **Bidders shall bear full responsibility for delivering Proposals to the required location by the time and date established.**

3.03 MODIFICATION OR WITHDRAWAL OF PROPOSALS

- A. A Proposal may not be modified, withdrawn, or cancelled by the Bidder within sixty (60) days following the time and date designated for the receipt of Proposals and the Bidder so agrees in submitting their Proposals.
- B. Prior to the time and date designated for receipt of Proposals, Proposals may be modified or withdrawn. Modifications and withdrawals shall be in writing or by telegram. If by telegram, written confirmation shall have been mailed and postmarked before the date and time set for receipt of Proposals. Telegraphic communications shall be worded so that the amounts of the original Proposals are not revealed.
- C. Withdrawn Proposals may be resubmitted up to the time and date designated for receipt of Proposals.

3.04 BIDDERS' REPRESENTATION AND ACKNOWLEDGEMENTS

A. In submitting their Proposal, each Bidder represents that:

1. They have read and understand the Bidding Documents.
2. Their Proposal is made in accordance with the Bidding Documents.
3. They have visited the Project Site and have familiarized themselves with the local conditions under which the Work they are bidding will be performed.
4. **They will accept the contract award, regardless of the identity of other Contractors on the Project.**
5. **During contract performance, they will not interrupt their Work nor impede the progress of other Contractors as a result of prejudice based on sex, race, color, creed, labor affiliation, or lack of labor affiliation of Contractors or employees of Contractors engaged on this Project.**

B. In submitting their Proposal each bidder acknowledges:

1. The right of the Owner to accept or reject any Proposal, to waive any informality or irregularity in any Proposal received, and to accept other than the low Bid.
2. The right of the Owner to accept any combination of Bid Divisions they desire.
3. The right of the Owner to award contracts in their own best interest.

3.05 OTHER INFORMATION

- A. All Bidders shall comply with the requirements of the Bidding Documents, Addenda, and all applicable codes, laws, and regulations in preparing and submitting their Proposals.
- B. Refer to Section 00300 – Instructions for Proposals and Bid Division Descriptions for additional information and instructions regarding Proposals.

END OF SECTION 00100

PART 1 – GENERAL

1.01 PROPOSAL FORMS

- A. A separate set of Proposal Forms, Bid Division Descriptions, Drawings, Contract Conditions, Specifications, and Preliminary Milestone Schedule(s).
- B. Bidders shall use the copies of Proposal Forms included in the separate sets of Bidding Documents. Copies of the Proposal Forms are acceptable.

1.02 BID DIVISION DESCRIPTIONS

- A. Section 00309 contains the Bid Division Descriptions. Each Bid Division Description represents a separate, self-contained Scope of Work. Bid Divisions are the basic divisions of Work into which the Project has been divided for bidding and construction.

PART 2 – PROPOSAL FORMAT

2.01 BID PROPOSALS

- A. Bidders are required to use the Proposal Forms provided by the Owner.
- B. A complete Proposal consists of:
 - 1. **Submit 1 complete copy of your proposal on Proposal Form – Section 00305.**
 - 2. Alternate Pricing forms (if applicable to this Project).
- C. Each Proposal shall have a Bid Security in the amount of five percent (5%) attached to the proposal.
- D. All spaces provided on the Proposal Form(s) shall be filled in. If any space provided is not utilized by the Bidder, that space shall be filled in with the notation “N/A” (Not Applicable).
- E. The Proposal Form(s) shall be filled in by typewriter or printed manually in ink.
- F. Where indicated, all sums shall be expressed in words and figures.
In case of discrepancy, the words shall govern.
- G. **Bidders shall not make unsolicited notations or statements on the Proposal Form(s). Alteration of the Proposal Form(s) is not permitted.**
- H. All changes to and erasures of the Bidder’s entries shall be initialed by the signer of the Proposal.
- I. Each Proposal shall include the legal name of the Bidder and a statement regarding whether the Bidder is a sole proprietor, a partnership, a corporation, or other type of legal entity. Proposals submitted by corporations shall have the state of incorporation noted, and shall have corporate seals affixed. Any Bid submitted by an agent shall have a current Power of Attorney attached, certifying the agent’s power to bind the Bidder.

2.02 ALTERNATES

- A. **All requested Alternates shall be bid with all lines completed or the Proposal will be considered incomplete.**

PROPOSAL FOR MULTIPLE BID DIVISIONS

- A. Each Bidder shall submit only one (1) Proposal for each Bid Division the Contractor is bidding. There is no limit to the number of Bid Divisions a Bidder may bid.
- B. Each Bidder is required to include a separate Bid for each Bid Division in order to be considered for contract award. Spaces are provided in the Proposal Form(s) to reference multiple Proposals.
- C. Multiple Bid Proposals shall contain separate Proposal Forms for each Bid Division being bid.
 - 1. Each Proposal Form shall be fully completed.
 - 2. The Bid for each Bid Division shall be independent of Bids for other Bid Divisions.
 - 3. Bidders shall use the "Combined Bid Deduct" section of the Proposal Form (Section 00305) to finalize multiple Bid Proposals.

PART 3 – COMPLETION OF PROPOSAL FORMS AND SEALED BID ENVELOPE

3.01 PROPOSAL FOR (SECTION 00305)

- A. Each Bid Division shall be submitted in a separate envelope, with a separate Bid Bond.
- B. Fill in the legal name of the Bidder, the address, the telephone number, fax number, contact name and contact email.
- C. Fill in the name and number of the Bid Division covered by the Proposal.
- D. Fill in the numbers and dates of all Addenda issued, received, and considered a part of the Proposal. Proposals must include acknowledgement of all Addenda issued up to the Bid Date.
- E. On the Proposal Form(s), fill in the Lump Sum Base Bid for the Bid Division. Fill in the amount in both words and figures. DO NOT include costs for Performance Bonds or Labor/Materials Payment Bond in the Base Bid amount.
- F. Fill in the cost(s) for Performance Bond(s) and Labor and Material Payment Bond(s) in the amount(s) requested (reference Section 00600), in the space(s) provided. Fill in the amount(s) in both words and figures.
- G. In the "Combined Bid Deduct" portion of the Proposal Form(s), state the amount(s) to be deducted from the total of your Base Bid should you be awarded contracts for multiple Bid Divisions. State the numbers of the Bid Divisions included in each combination, and the amount to be deducted from the total of all Base Bids in each combination.
- H. If Alternate Bid(s) have been requested, fill in the Lump Sum Bid for each Alternate Bid in the space provided. DO NOT include costs for Performance Bonds or Labor and Material Payment Bonds.
- I. Fill in the anticipated date(s) of indicated Shop Drawings and/or Sample Submittal(s) in the space(s) provided.
- J. Fill in the anticipated number of weeks needed for fabrication of indicated items, beginning on the Bid Date.
- K. Fill in the anticipated number of on-site staff.
- L. Fill in the anticipated number of days to complete the Work.
- M. Fill in the anticipated number of weeks needed for delivery of indicated items, beginning on the Bid Date.
- N. Fill in the names of the manufacturers, suppliers, and/or subcontractors of indicated items.

- O. If you choose to submit Voluntary Alternates or Value Engineering Suggestions, please summarize your suggestions and state the amount to be deducted from the Base Bid.
- P. Review the "Bid Division Responsibilities" portion of the Proposal Form.
- Q. Review the "Schedule" portion of the Proposal Form.
- R. If the Proposal includes exceptions or substitutions to any part of the Bidding Documents or the Contract Documents, state the exceptions or substitutions in writing on the Proposal Form.
- S. Fill in the Bidder's legal name.
- T. Indicate the Bidder's status as a sole proprietor, partnership, corporation, or other type of entity.
- U. Sign the Proposal Form in the space provided.
- V. Type or print the signer's name and title in the spaces provided below the signature line.
- W. Date the Proposal Form in the space provided.
- X. Provide phone number, fax number and email address on the space provided.

3.02 SEALED BID ENVELOPE

- A. Bids submitted must be sealed, preferably in a 9" x 12" manila envelope.
- B. Each Bid Division is to be submitted in a separate envelope.
- C. **Label the sealed bid as follows:**

TO: **Mount Pleasant Public Schools**
 Attn: Jennifer Verleger
 720 North Kinney Avenue
 Mount Pleasant, MI 48858

SEALED BID FOR:

Mount Pleasant Public Schools
 Bid Pack No. 5 - High School Gym Wall Repair

Bid Division No: _____

END OF SECTION 00300

**Project: Mount Pleasant Public Schools
Bid Pack No. 5 - High School Gym Wall Repair**

Submitted By: _____
(Bidder's Company Name)

Address: _____

City / State / Zip: _____

Phone: _____

Fax: _____

Contact Name: _____

Email: _____

Bid Proposal Deadline: Prior to Friday, May 9, 2025 at 1:00 PM (local time) to:

Mount Pleasant Public Schools
Jennifer Verleger, Superintendent
720 North Kinney Avenue
Mount Pleasant, MI 48858
or
Via Building Connected

Bid Division Name: _____

Bid Division Number: _____

ADDENDA

We (the Bidder) acknowledge receipt of the following Addenda:

☐ Addendum #__ Dated _____
☐ Addendum #__ Dated _____
☐ Addendum #__ Dated _____

BID BOND ATTACHED?

☐ Yes, 5% Bid Bond is Attached
☐ Certified Check/Money Order for 5% of Base Bid is Attached

BASE BID for Mount Pleasant Public Schools – Bid Pack No. 5 (not including Labor Bond, Material Bond, and/or Performance Bond Costs):

_____ Dollars and 00/100ths

\$ _____

BOND COST for Mount Pleasant Public Schools – Bid Pack No. 5 (Cost to provide Labor Bond, Material Bond, and/or Performance Bonds on Base Bid):

_____ Dollars and 00/100ths

\$ _____

COMBINED BID DEDUCT

If awarded a contract for the Work, combining the following Bid Division(s), the corresponding amount(s) may be deducted from the Base Bid(s) of each of the involved Bid Divisions.

Bid Divisions Combined

Deduct from each Bid Division:

ALTERNATES

N/A

SUBMITTALS

Anticipated Date of Shop Drawing Submittal at Post Bid Interview: _____

Anticipated Number of Days to Begin: _____

Anticipated Number of On-site Staff: _____

Anticipated Number of Days to Complete: _____

Anticipated Number of Days for Delivery of Needed Items: _____

Proposed Manufacturers, Suppliers, and/or Subcontractors:

<u>Item(s)</u>	<u>Manufacturer/Subcontractor/Supplier</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

VOLUNTARY ALTERNATES / VALUE ENGINEERING SUGGESTIONS

We suggest the following alternate procedure(s) and/or material(s):

<u>Summary of Suggestions</u>	<u>Deduct from Base Bid</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

BID DIVISION RESPONSIBILITY

We recognize that the Scope of Work within a Bid Division represents a construction segment that is not necessarily restricted to a single construction trade, and our Proposal includes work of all trades required to fully and successfully complete all of the Work required in the Bid Division(s) we have submitted Proposals for:

SCHEDULE

We have reviewed the Preliminary Milestone Schedule and hereby endorse it with regard to the Work of Bid Division(s) we have bid. ALL WORK MUST BE COMPLETED BY **August 15, 2025**.

EXCEPTIONS AND/OR SUBSTITUTIONS

We have submitted our Proposal, as specified, complete and in accordance with the Bidding Documents, including Addenda and the Contract Documents, without exceptions or substitutions, unless otherwise noted in the "Voluntary Alternate / Value Engineering Suggestions" portion of this Proposal Form.

EXECUTION

Name of Bidder: _____

Bidder's Status:

___Corporation; ___Partnership; ___Sole Proprietor; ___Other: (Please Specify: _____)

By/Signature: _____

Name: _____

Title: _____

Date: _____

Email: _____

Phone: _____ Fax: _____

END OF SECTION 00305

Familial Relationship Sworn Statement

_____ does hereby disclose that per MCL 380.1267:
Company Name

☐ **YES**, There exists a familial relationship between the Owner of the project or any member of their Board, or Board of Directors, or the Superintendent of the School district, intermediate superintendent of the intermediate school district, or chief executive officer of the public school academy and the Owner or an employee(s) of _____.
Company Name

Disclosure Between:

Name _____ AND Name _____

Title: _____ Title: _____

Relationship: _____ Relationship: _____

☐ **NO**, There does not exist a familial relationship between the Owner of the project or any member of their Board, or Board of Directors, or the Superintendent of the School district, intermediate superintendent of the intermediate school district, or chief executive officer of the public school academy and the Owner or an employee(s) of _____.
Company Name

Name (printed): _____

Position: _____

Signature: _____

Date: _____

Notary Public(printed): _____

Signature: _____

County: _____

Date: _____ My Commission Expires: _____

Affix Notary Seal Here:



END OF SECTION 00306

Iran Business Relationship Affidavit

Effective April 1, 2013 all bids, proposals, and/or qualification statements received in the State of Michigan must comply with the "Iran Economic Sanctions Act". The following certification is to be signed and included at time of submittal.

CERTIFICATION

Pursuant to the Michigan Iran Economic Sanctions Act, 2012 P.A. 517, by submitting a bid, proposal or response, Respondent certifies, under civil penalty for false certification, that it is fully eligible to do so under law and that it is not an "Iran linked business," as that term is defined in the Act.

Signature

Title

Company

Date

END OF SECTION 00307

IRAN ECONOMIC SANCTIONS ACT
Act 517 of 2012

AN ACT to prohibit persons who have certain economic relationships with Iran from submitting bids on requests for proposals with this state, political subdivisions of this state, and other public entities; to require bidders for certain public contracts to submit certification of eligibility with the bid; to require reports; and to provide for sanctions for false certification.

History: 2012, Act 517, Eff. Apr. 1, 2013.

The People of the State of Michigan enact:

129.311 Short title.

Sec. 1. This act shall be known and may be cited as the "Iran economic sanctions act".

History: 2012, Act 517, Eff. Apr. 1, 2013.

129.312 Definitions.

Sec. 2. As used in this act:

(a) "Energy sector of Iran" means activities to develop petroleum or natural gas resources or nuclear power in Iran.

(b) "Investment" means 1 or more of the following:

(i) A commitment or contribution of funds or property.

(ii) A loan or other extension of credit.

(iii) The entry into or renewal of a contract for goods or services.

(c) "Investment activity" means 1 or more of the following:

(i) A person who has an investment of \$20,000,000.00 or more in the energy sector of Iran.

(ii) A financial institution that extends \$20,000,000.00 or more in credit to another person, for 45 days or more, if that person will use the credit for investment in the energy sector of Iran.

(d) "Iran" means any agency or instrumentality of Iran.

(e) "Iran linked business" means either of the following:

(i) A person engaging in investment activities in the energy sector of Iran, including a person that provides oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran.

(ii) A financial institution that extends credit to another person, if that person will use the credit to engage in investment activities in the energy sector of Iran.

(f) "Person" means any of the following:

(i) An individual, corporation, company, limited liability company, business association, partnership, society, trust, or any other nongovernmental entity, organization, or group.

(ii) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in section 1701(c)(3) of the international financial institutional act, 22 USC 262r(c)(3).

(iii) Any successor, subunit, parent company, or subsidiary of, or company under common ownership or control with, any entity described in subparagraph (i) or (ii).

(g) "Public entity" means this state or an agency or authority of this state, school district, community college district, intermediate school district, city, village, township, county, public authority, or public airport authority.

History: 2012, Act 517, Eff. Apr. 1, 2013.

129.313 Ineligibility of Iran linked business to submit request for proposal bid; certification.

Sec. 3. (1) Beginning April 1, 2013, an Iran linked business is not eligible to submit a bid on a request for proposal with a public entity.

(2) Beginning April 1, 2013, a public entity shall require a person that submits a bid on a request for proposal with the public entity to certify that it is not an Iran linked business.

History: 2012, Act 517, Eff. Apr. 1, 2013.

129.314 Effect of false certification.

Sec. 4. If a public entity determines, using credible information available to the public, that a person has submitted a false certification under section 3(2), the public entity shall provide the person with written notice of its determination and of the intent not to enter into or renew a contract with the person. The notice shall include information on how to contest the determination and specify that the person may become eligible for a

future contract with the public entity if the person ceases the activities that cause it to be an Iran linked business. The person shall have 90 days following receipt of the notice to respond in writing and to demonstrate that the determination of false certification was made in error. If a person does not make that demonstration within 90 days after receipt of the notice, the public entity may terminate any existing contract and shall report the name of the person to the attorney general together with information supporting the determination.

History: 2012, Act 517, Eff. Apr. 1, 2013.

129.315 Civil action; penalty.

Sec. 5. The attorney general may bring a civil action against any person reported under section 4. If a civil action results in a finding that the person submitted a false certification, the person is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the public entity's investigation, and reasonable attorney fees, in addition to the fine. A person who submitted a false certification shall be ineligible to bid on a request for proposal for 3 years from the date the public entity determines that the person has submitted the false certification.

History: 2012, Act 517, Eff. Apr. 1, 2013.

129.316 Conditional effect.

Sec. 6. The provisions of this act are effective only if Iran is a state sponsor of terror as defined under section 2 of the divestment from terror act, 2008 PA 234, MCL 129.292.

History: 2012, Act 517, Eff. Apr. 1, 2013.

END OF SECTION 00307

Bid Division: 040000 – Masonry

Bid to Include:

Total Responsibility for Specification Sections:

Section 013300 Architect's Submittal Procedures
Section 014000 Quality Requirements
Section 017300 Execution
Section 024119 Selective Demolition - All Selective Masonry Demo
Section 042000 Unit Masonry

Limited Responsibility for Specification Sections (as it relates to work in this Bid Division):

Section 079200 Joint Sealants (Exterior control joints)

Provide all labor, materials, tools, and equipment necessary to perform the work of the specified bid sections. The contractor must also furnish, deliver, unload, store, protect, erect and install all items required for the completion of the work of this bid division in compliance with all drawings and specifications for a complete operational system including but not limited to:

Mortar, block, brick, scaffolding, shoring, toothing of existing masonry, installing of embedded items, caulking, reinforcing, etc.

General Inclusions:

1. There is no general contractor associated with this project; any and all reference to a "general contractor" related to the work of this bid division shall be understood to mean the contractor of this bid division.
2. The contractor for this bid division work is required to include but is not limited to all items, services, tasks, materials, personnel, equipment, etc. identified in this bid division description regardless of the presence of language in other bid division descriptions that is the same or is similar to that found in this contractor's bid division description.
3. Coordination of the work of this bid division with any and all work of other bid division contractors for the scheduling and integration of the work of this contractor.
4. All contractors are responsible for the entire set of plans and specifications, including tables, schedules, and notes.
5. Provide continuous housekeeping and clean-up, and proper legal off-site disposal of any debris generated by this Bid Division's work.
6. Contractor is responsible for own dumpster(s) and all removal and disposal charges thereof. (Use of the Owner's dumpsters is strictly prohibited.)
7. All Contractors are required to inspect the existing project components and are to include all work necessary to complete the work to deliver a fully operational system in compliance with all governing codes.
8. This Contractor shall be responsible for performing all work in full compliance with all health and safety standards including Asbestos Awareness and Notification, Lead Paint Abatement, and all MIOSHA Standards. This Contractor shall also be responsible for satisfying all safety violations and/or fines resulting from the actions or lack of action by this Contractor at the sole expense of this Contractor.
9. Any contractor who compounds a mistake by installing their product on another Contractor's obvious faulty work will assume responsibility for repair of said work.
10. This contractor shall repair and restore any damaged area to an original or better condition with no detectable evidence that the area has been repaired. Repairs must be done by personnel qualified in the execution of the work skilled and licensed in that trade. Whenever possible, repairs to work shall be done by the original installer of the work.
11. Submittal of all insurance, unit pricing, schedule of values, required product data and shop drawings within (2) two weeks of Owner's Notice to commence work.
12. Must provide all submittals within 20 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.

Bid Division: 040000 – Masonry

13. Provide all layout and measurements required to perform the work of this Bid Division.
14. The Owner reserves the right to salvage any materials removed from the site during the duration of the project.
15. Coordinate delivery of materials with Construction Manager (48 hours) in advance of the delivery and provide proper personnel and equipment to perform the unloading.
16. Contractor shall submit to the field construction manager a complete written daily field report stating the work being done on site and the number of employees performing the work for each day the Contractor has representatives on site.
17. Contractors shall have a supervisor on site at all times when a crew is present on the job.
18. On Friday, or last workday of each week, the Contractor must update the Master Copy of As-Built, as it applies to the work of their Bid Division.
19. **Wolgast uses Auto Desk Construction Cloud for their CM Software. Please note: We will upload all drawings, and drawing revisions as they are approved, to the Drawings tool. However, it is each contractor's responsibility to verify that they are working from the most up to date, approved, drawings.**

Division Inclusions:

1. Caulking of all exterior control joints.
2. Temporary weather protection as needed, including temporary enclosures, temporary heat, temporary heating fuel. Mason to heat sand water & mixture.
3. Installation of miscellaneous steel lintels.
4. Installation of bolts and grouted anchors.
5. Coordinate the location of all masonry openings and penetrations with the trade requiring same.
6. Coordinate masonry opening sizes and locations with all contractors.
7. Layout for opening for other trades to be performed by that trade.
8. Verify correct window rough opening sizes for all new and relocated existing window units prior to building masonry window openings.
9. Provide all required masonry sealants and caulking for wall flashing, weep holes, and rigid insulation.
10. Provide patching of all wall penetrations as required.
11. All toothing and patching as required for all work related to this project.
12. Grout all jambs and headers of all hollow metal frames, and brass door jambs per manufacturer's recommendation.
13. The brick is the responsibility of the masonry contractor, to purchase and install.
14. The mason contractor is responsible for removing all excess mortar from salvaged brick prior to installation.
15. Removal of mortar from floors, clean with cleaner and water to remove excess mortar and mortar dust.
16. Cavity wall insulation includes all insulation extending beyond the top of the brick or veneer line but laying against the CMU wall as specified.
17. Provide through wall flashing at building tie-ins, including any demolition required.
18. Temporarily brace masonry as required by industry standards and MIOSHA, to include temporary warning signage and barricades.
19. Samples of brick for exterior walls will be tested for efflorescence per ASTM C67 prior to acceptance of brick.
20. In the event that efflorescence appears after walls are in place, the Architect shall select samples of brick and mortar taken directly from the wall to be tested for chemical content. If efflorescence producing materials are found in the brick or mortar in amounts exceeding the limits called for by this specification and referenced in the ASTM standards, the contractor shall bear the cost of the testing and all remedial, additional or replacement work. If efflorescence producing materials in both the brick and the mortar do not exceed the limits as stated above, the cost of the testing and patching of the areas where samples were removed shall be borne by the Owner.
21. Install access doors in masonry walls.

Project Inclusions:

1. Provide all demo of existing masonry as identified on A1.1
2. Provide any and all temporary shoring along with engineered shop drawings and shoring plan prior to work starting.
3. Provide a weather tight enclosure system to protect the interior finishes from exterior weather conditions.
4. Furnish and install all required masonry materials.

Bid Division: 040000 – Masonry

5. Furnish and install all required spray foam cavity wall insulation and rigid insulation against masonry construction.
6. Provide masonry reinforcing shop drawings with the submittals.
7. Furnish and install fire-resistive joint system materials and compressible joint filler at new masonry to existing construction.
8. Provide all caulking of all exterior control joints. The first joint caulked must be approved by the Construction Manager to set the level of acceptance for all caulking. All unsatisfactory caulking will be required to be removed and re-installed. Confirm color of exterior caulking with the Architect prior to installation.
9. Furnish and install all masonry veneer.
10. Install all steel bearing plates on new and existing masonry as documented.
11. Install all steel lintels and imbedded steel as furnished by bid division 06000.
12. Furnish and install all required anchors for new masonry to existing materials.
13. Provide complete cavity wall drainage system with all required weeps, grout, vents, drainage material, etc.
14. Provide dumpsters for all masonry related scope of work.
15. Repair all damaged or affected exterior lawn areas or flower beds as a result of work being completed by this Bid Division. This shall include restoration of any staging areas.
16. Review the milestone schedules. This bid division's work will be required to be completed at multiple locations and concurrently for some of the work. Prepare your bid proposal accordingly to allow for sufficient manpower and resources to meet the completion date. If overtime work is required to keep the project on schedule and to complete the project per the schedule, this contractor shall include any overtime or premium rates in their bid proposal as necessary to ensure the project completion date and or task completion dates are met. Note that the timing of all tasks may change as required to stay on schedule and no contractor shall cause a delay in meeting their own or any other contractor's obligations as it pertains to the milestone schedule. The milestone schedule will be used as a template to create the construction schedule once input has been received from all awarded contractors, however the completion dates as listed in the milestone schedule will need to be achieved.
17. Must provide all submittals within 10 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
18. Mandatory attendance at all required pre-installation meetings.
19. Completion of all punch list work within 5 working days or less upon receipt of punch list items, unless specific circumstances occur that are out of control of this bid division contractor dictate otherwise.
20. Provide required manpower along with required work hours (including weekends if required) to meet the indicated schedule. There will be no cost compensation to meet schedule, if this contractor is behind the published milestone schedule.
21. This contractor shall provide daily clean-up of all debris generated by this contractors daily work. This is not limited to the immediate area but should also include clean-up of all dust and debris that affected adjoining areas.
22. Project Inclusions are provided as assistance for contractors that are bidding and are not an all-inclusive scope of work. It is every contractor's responsibility to review all the construction documents and prepare their bid accordingly.

Excludes:

1. Hollow metal door frames provided by Bid Division 060000 and installed by this bid division.
2. Steel lintels provided by Bid Division 060000.
3. Temporary floor protection of the gym floor will be provided and installed by Bid Division 060000.

Consideration for award:

The ability to begin as soon as areas of work become available. To have proper equipment and responsible personnel to complete the above list of work. To repair any adjacent materials damaged in the execution of the above-mentioned work. Close cooperation with the Construction Manager and other bid divisions to provide input to develop a working schedule. An approved schedule of values will be required before approval is granted for the first payment request. Expediting communication and follow-up as required.

END OF BID DIVISION 040000

Wolgast Corporation – Construction Management

Contractor _____

BID DIVISION 040000 - MASONRY

Package #	Package	Number	Spec #	Spec	Title
040000 PA-001	Masonry - Start Ups	040000-01		Masonry - Start Ups	Signed Post Bid Interview Form
040000 PA-001	Masonry - Start Ups	040000-02		Masonry - Start Ups	Schedule of Values
040000 PA-001	Masonry - Start Ups	040000-03		Masonry - Start Ups	Signed Contracts Returned
040000 PA-001	Masonry - Start Ups	040000-04		Masonry - Start Ups	Payment/Performance Bonds
040000 PA-001	Masonry - Start Ups	040000-05		Masonry - Start Ups	Certificate of Insurance
040000 PA-001	Masonry - Start Ups	040000-06		Masonry - Start Ups	Employee List
040000 PA-001	Masonry - Start Ups	040000-07		Masonry - Start Ups	Safety Policy
040000 PA-001	Masonry - Start Ups	040000-08		Masonry - Start Ups	SDS Sheets
040000 PA-001	Masonry - Start Ups	040000-09		Masonry - Start Ups	Certificate of Subcontractor & Supplier
040000 PA-001	Masonry - Start Ups	040000-10		Masonry - Start Ups	AHERA Notification and Contractor Compliance Affidavit
040000 PACO-001	Masonry - Close Outs	040000-11		Masonry - Close Outs	Contractor (2) Year Guarantee
040000 PACO-001	Masonry - Close Outs	040000-12		Masonry - Close Outs	Consent of Surety
040000 PACO-001	Masonry - Close Outs	040000-13		Masonry - Close Outs	Certificate of Substantial Completion
040000 PACO-001	Masonry - Close Outs	040000-14		Masonry - Close Outs	Completed Punch List
040000 PACO-001	Masonry - Close Outs	040000-15		Masonry - Close Outs	As Built Drawings
040000 PACO-001	Masonry - Close Outs	040000-16		Masonry - Close Outs	All Processed Change Orders Returned
040000 PACO-001	Masonry - Close Outs	040000-17		Masonry - Close Outs	Current Certificate of Insurance
040000 PACO-001	Masonry - Close Outs	040000-18		Masonry - Close Outs	Signed Hazardous Materials Compliance Affidavit
040000 PACO-001	Masonry - Close Outs	040000-19		Masonry - Close Outs	Signed Asbestos Free Affidavit
040000 PACO-001	Masonry - Close Outs	040000-20		Masonry - Close Outs	All Other Warranties Required
040000 PACO-001	Masonry - Close Outs	040000-21		Masonry - Close Outs	Operations & Maintenance Manuals
040000 PACO-001	Masonry - Close Outs	040000-22		Masonry - Close Outs	Replacement Parts turned over to Owner
040000 PACO-001	Masonry - Close Outs	040000-23		Masonry - Close Outs	Inspections & Certificates
040000 PACO-001	Masonry - Close Outs	040000-24	079200	Joint Sealants	Special Manufacturer's Warranty on Joint Sealants
040000-001	Masonry - Submittals	040000-25	042000	Unit Masonry	Product data, material certificates and mix designs on unit masonry.
040000-001	Masonry - Submittals	040000-26	042000	Unit Masonry	Shop drawings on unit masonry.
040000-001	Masonry - Submittals	040000-27	079200	Joint Sealants	Product data and samples on joint sealants.

Bid Division: 060000 – General Trades

Bid to Include:

Total Responsibility for Specification Sections:

Section 013300	Architect's Submittal Procedures
Section 014000	Quality Requirements
Section 017300	Execution
Section 024119	Selective Demolition - All Selective Demo Except for MEP & Masonry Demo
Section 033000	Cast-In-Place Concrete
Section 055000	Metal Fabrications
Section 061053	Miscellaneous Rough Carpentry
Section 084113	Aluminum-Framed Entrances
Section 096466	Wood Athletic Flooring (Wall Base)
Section 099600	High Performance Coatings

Limited Responsibility for Specification Sections (as it relates to work in this Bid Division):

Section 079200	Joint Sealants
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Provide all labor, materials, tools, and equipment necessary to perform the work of the specified bid sections. The contractor must also furnish, deliver, unload, store, protect, erect, and install all items required for the completion of the work of this bid division in compliance with all drawings and specifications for a complete operational system including but not limited to:

All required nailers, fasteners, blocking, etc for a complete operational system.

General Inclusions:

1. There is no general contractor associated with this project; all references to a "general contractor" related to the work of this bid division shall be understood to mean the contractor of this bid division.
2. The contractor for this bid division work is required to include but is not limited to all items, services, tasks, materials, personnel, equipment, etc. identified in this bid division description regardless of the presence of language in other bid division descriptions that is the same or like that found in this contractor's bid division description.
3. Coordination of the work of this bid division with all work of other bid division contractors for the scheduling and integration of the work of this contractor.
4. All contractors are responsible for the entire set of plans and specifications, including tables, schedules, and notes.
5. Provide continuous housekeeping and clean-up, and proper legal off-site disposal of any debris generated by this Bid Division's work.
6. This contractor is responsible for their own dumpster(s) and all removal and disposal charges thereof. (Use of the Owner's dumpsters is strictly prohibited.)
7. All Contractors are required to inspect the existing project components and are to include all work necessary to complete the work to deliver a fully operational system in compliance with all governing codes.
8. This Contractor shall be responsible for performing all work in full compliance with all health and safety standards including Asbestos Awareness and Notification, Lead Paint Abatement, and all MIOSHA Standards. This Contractor shall also be responsible for satisfying all safety violations and/or fines resulting from the actions or lack of action by this Contractor at the sole expense of this Contractor.
9. Any contractor who compounds a mistake by installing their product on another Contractor's obvious faulty work will assume responsibility for repair of said work.
10. This contractor shall repair and restore any damaged area to an original or better condition with no detectable evidence that the area has been repaired. Repairs must be done by personnel qualified in the execution of the work skilled and licensed in that trade. Whenever possible, repairs to the work shall be done by the original installer of the work.

Wolgast Corporation – Construction Management

Contractor_____

Bid Division: 060000 – General Trades

11. Submittal of all insurance, unit pricing, schedule of values, required product data and shop drawings within (2) two weeks of Owner's Notice to commence work.
12. Must provide all submittals within 20 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
13. Provide all layout and measurements required to perform the work of this Bid Division.
14. The Owner reserves the right to salvage any materials removed from the site during the duration of the project.
15. Coordinate delivery of materials with Construction Manager (48 hours) in advance of the delivery and provide proper personnel and equipment to perform the unloading.
16. Contractor shall submit to the field construction manager a complete written daily field report stating the work being done on site and the number of employees performing the work for each day the Contractor has representatives on site.
17. This contractor shall always have their own supervisor on site when a crew is present on the job.
18. On Friday, or the last workday of each week, the Contractor must update the Master Copy of As-Built, as it applies to the work of their Bid Division.
19. **Wolgast uses Auto Desk Construction Cloud for their CM Software. Please note: We will upload all drawings, and drawing revisions as they are approved, to the Drawings tool. However, it is each contractor's responsibility to verify that they are working from the most up to date, approved, drawings.**

Division Inclusions:

1. Unloading, protection and record of all hollow metal doors and frames.
2. All wood nailers for roof blocking, fascia, masonry, etc.
3. Wood blocking around windows and doors.
4. All temporary shoring as required for work in this Bid Division.
5. Provide, receive, store, protect, inventory, and install all described bid items.
6. Provide proper legal off-site disposal of all construction debris generated by the described work.
7. A sufficient number of shop drawings are to be provided to the affected contractors (i.e., mason, electrician, etc.)
8. Remove items indicated: clean, service and otherwise prepare them for reuse; store and protect against damage. Reinstall items in the same locations or in locations indicated.
9. Remove and legally dispose of items not indicated to be reinstalled, salvaged or to remain the Owner's property.
10. Install all doorframes, and coordinate with mason contractor.
11. Cover all countertops with double layered corrugated cardboard.
12. Clean and dust all casework upon completion.
13. Clean, prep and adjust all equipment immediately prior to Owner occupancy.
14. Patch walls after demo activities. Walls shall be brought to a surface ready to receive new paint.
15. Patch all demolished areas and items affected by demolition to a condition ready to receive finishes and finish materials.
16. Furnish and install all joint sealants and fire stopping as indicated in specifications and drawings including but not limited to perimeter joints of doors and louvers at interior and exterior, perimeter joints between interior wall surfaces and frames of interior doors and all other joints indicated.
17. Provide all temporary enclosures as required, review demo drawings throughout the duration of construction.
18. Contractor shall furnish and install temporary insulated weather-tight closures of openings created as a result of the work in this scope in exterior surfaces to provide acceptable working conditions and protection for materials, to allow for temporary heating, and for building security. Provide doors with self-closing hardware and locks.
19. Provide all wood framing, plywood and nailers as shown and specified. Provide all wood blocking in metal stud walls for all materials that will require it, including but not limited to, casework, fixtures, toilet accessories, coat racks, signage, curtains, marker & tack boards, etc.
20. The contractor shall engage an authorized factory service representative to perform a start-up service prior to the acceptance of the doors by the owner and construction manager. The start-up service certification shall include verification of correct motor wiring and voltage; adjusting the door for proper operation; testing, adjusting, and correcting the door controls and safeties; testing the door for proper function as required by the architect's specifications; the formal training of the owner and owner's representatives for the proper operation and

Bid Division: 060000 – General Trades

maintenance of the door. The authorized factory service representative shall provide a written certification with the request for final payment stating that the start-up service has been performed and that each of the above items have been verified for proper operation.

Project Inclusions:

1. This bid division is responsible for all required interior & exterior selective demolition for the project. (Mechanical, electrical and existing Masonry Wall demolition by respective bid divisions as indicated).
2. Provide all dumpsters required for complete removal of all demolition debris as created by this bid division. Legally dispose of off the site.
3. This contractor will be required to patch all existing materials scheduled to remain, that are affected by the demolition work, to a condition ready to receive finishes and finish materials. Wolgast Field Manager and Owner's Representative will determine the level of acceptance.
4. Furnish and install all joint sealants and fire stopping as indicated in specifications and drawings. Verify installation of caulking is approved by construction manager to set level of acceptance for all required work. Poor caulking installation will be required to be removed and reinstalled.
5. Provide all painting and caulking of interior control joints as required for this project.
6. Provide and install temporary floor protection to protect existing gym floor from demo activities. A minimum of ¾" plywood shall cover the interior floor area to be protected (16' wide x 30' long).
7. Provide and install a 16' tall temporary 2x4 stud wall with ½" OSB on one side, along with any bracing required. Approximately 46 lft of temp wall will be required. At the top of this wall supply and install fiber reinforced poly roll sheeting, to run from top of temporary wood framed wall, up to bottom side of roof deck. This will contain dust and flying debris within the immediate work area.
8. Provide and install any and all metals (lintels, beams, bearing plates, and misc. metal fabrications. Masonry contractors will install any embedded structural metals. See Detail 3 on sheet S101 for an example of what is expected to be covered by this bid division.
9. Provide demo and reinstallation of gym floor vented base per construction documents.
10. Provide the demo and reinstallation of the existing exterior door and frame at opening #908 on A1.1.
11. Provide demo and installation of any required concrete for this project.
12. **Provide an additional \$7,500 allowance for replacement of existing foundation wall/footing if required.**
13. **Include an additional \$5,000.00 allowance for any painting that may be required as directed by the Field Manager. Any additional work will be performed on a time and material basis, additions or deletions will be addressed by change order. This is in addition to the required painting as covered under other Project Inclusions in the Bid Division.**
14. Provide daily cleanup of the entire job site. Include costs to provide a General Laborer to provide daily cleanup activities as directed by the Field Manager. Costs included shall cover this worker for a project total of 40 man-hours. The amount of time spent will be tracked by the Field Manager using a timecard and signed off by both parties each time there are hours utilized per this project inclusion.
15. Review the milestone schedules. This bid division's work will be required to be completed at multiple locations and concurrently for some of the work. Prepare your bid proposal accordingly to allow for sufficient manpower and resources to meet the completion date. If overtime work is required to keep the project on schedule and to complete the project per the schedule, this contractor shall include any overtime or premium rates in their bid proposal as necessary to ensure the project completion date and or task completion dates are met. Note that the timing of all tasks may change as required to stay on schedule and no contractor shall cause a delay in meeting their own or any other contractor's obligations as it pertains to the milestone schedule. The milestone schedule will be used as a template to create the construction schedule once input has been received from all awarded contractors, however the completion dates as listed in the milestone schedule will need to be achieved.
16. Must provide all submittals within 10 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
17. Mandatory attendance at all required pre-installation meetings.
18. Completion of all punch list work within 5 working days or less upon receipt of punch list items, unless specific circumstances occur that are out of control of this bid division contractor dictate otherwise.

Bid Division: 060000 – General Trades

19. Provide required manpower along with required work hours (including weekends if required) to meet the indicated schedule. There will be no cost compensation to meet schedule, if this contractor is behind the published milestone schedule.
20. This contractor shall provide daily clean-up of all debris generated by this contractors daily work. This is not limited to the immediate area, but should also include clean-up of all dust and debris that affected adjoining areas.
21. Project Inclusions are provided as assistance for contractors that are bidding and are not an all-inclusive scope of work. It is every contractor's responsibility to review all the construction documents and prepare their bid accordingly.

Excludes:

1. All demolition of all masonry, mechanical, plumbing, and electrical work.

Consideration for award:

The ability to begin as soon as areas of work become available. To have proper equipment and responsible personnel to complete the above list of work. To repair any adjacent materials damaged in the execution of the above-listed work. Close cooperation with the Construction Manager and other bid divisions to provide input to develop a working schedule. An approved schedule of values will be required before approval is granted for the first payment request. Expediting communication and follow-up as required.

END OF BID DIVISION 060000

BID DIVISION 060000 - GENERAL TRADES

Package #	Package	Number	Spec #	Spec	Title
060000 PA-001	General Trades - Start Ups	060000-01		General Trades - Start Ups	Signed Post Bid Interview Form
060000 PA-001	General Trades - Start Ups	060000-02		General Trades - Start Ups	Schedule of Values
060000 PA-001	General Trades - Start Ups	060000-03		General Trades - Start Ups	Signed Contracts Returned
060000 PA-001	General Trades - Start Ups	060000-04		General Trades - Start Ups	Payment/Performance Bonds
060000 PA-001	General Trades - Start Ups	060000-05		General Trades - Start Ups	Certificate of Insurance
060000 PA-001	General Trades - Start Ups	060000-06		General Trades - Start Ups	Employee List
060000 PA-001	General Trades - Start Ups	060000-07		General Trades - Start Ups	Safety Policy
060000 PA-001	General Trades - Start Ups	060000-08		General Trades - Start Ups	SDS Sheets
060000 PA-001	General Trades - Start Ups	060000-09		General Trades - Start Ups	Certificate of Subcontractor & Supplier
060000 PA-001	General Trades - Start Ups	060000-10		General Trades - Start Ups	AHERA Notification and Contractor Compliance Affidavit
060000 PACO-001	General Trades - Close Outs	060000-11		General Trades - Close Outs	Contractor (2) Year Guarantee
060000 PACO-001	General Trades - Close Outs	060000-12		General Trades - Close Outs	Consent of Surety
060000 PACO-001	General Trades - Close Outs	060000-13		General Trades - Close Outs	Certificate of Substantial Completion
060000 PACO-001	General Trades - Close Outs	060000-14		General Trades - Close Outs	Completed Punch List
060000 PACO-001	General Trades - Close Outs	060000-15		General Trades - Close Outs	As Built Drawings
060000 PACO-001	General Trades - Close Outs	060000-16		General Trades - Close Outs	All Processed Change Orders Returned
060000 PACO-001	General Trades - Close Outs	060000-17		General Trades - Close Outs	Current Certificate of Insurance
060000 PACO-001	General Trades - Close Outs	060000-18		General Trades - Close Outs	Signed Hazardous Materials Compliance Affidavit
060000 PACO-001	General Trades - Close Outs	060000-19		General Trades - Close Outs	Signed Asbestos Free Affidavit
060000 PACO-001	General Trades - Close Outs	060000-20		General Trades - Close Outs	All Other Warranties Required
060000 PACO-001	General Trades - Close Outs	060000-21		General Trades - Close Outs	Operations & Maintenance Manuals
060000 PACO-001	General Trades - Close Outs	060000-22		General Trades - Close Outs	Replacement Parts turned over to Owner
060000 PACO-001	General Trades - Close Outs	060000-23		General Trades - Close Outs	Inspections & Certificates
060000 PACO-001	General Trades - Close Outs	060000-24	079200	Joint Sealants	Special Warranty on Joint Sealants.
060000 PACO-001	General Trades - Close Outs	060000-25	099600	High-Performance Coatings	Extra Materials on Coatings. 5 percent
060000-001	General Trades - Submittals	060000-26	050000	Metal Fabrications	Shop drawings on metal fabrications.
060000-001	General Trades - Submittals	060000-27	079200	Joint Sealants	Product data and samples on joint sealants.
060000-001	General Trades - Submittals	060000-28	099600	High-Performance Coatings	Product data on high-performance coatings.
060000-001	General Trades - Submittals	060000-29	099600	High-Performance Coatings	Samples on high-performance coatings.

Bid Division: 230000 – Mechanical

Bid to Include:

Total Responsibility for Specification Sections:

Section 013300 Architect's Submittal Procedures
Section 014000 Quality Requirements
Section 017300 Execution
Section 230005 Basic HVAC Requirements
Section 230505 Selective Demolition For HVAC
Section 230719 HVAC Piping Insulation
Section 232113 HVAC Piping

Limited Responsibility for Specification Sections (as it relates to work in this Bid Division):

Section 079200 Joint Sealants

Provide all labor, materials, tools, and equipment necessary to perform the work of the specified bid sections. The contractor must also furnish, deliver, unload, store, protect, erect, and install all items required for the completion of the work of this bid division in compliance with all drawings and specifications for a complete operational system including but not limited to:

Plumbing, heating, ventilating, air conditioning, balancing, temperature control, etc., for a complete operational system.

General Inclusions:

4. There is no general contractor associated with this project; any and all reference to a "general contractor" related to the work of this bid division shall be understood to mean the contractor of this bid division.
5. The contractor for this bid division work is required to include but is not limited to all items, services, tasks, materials, personnel, equipment, etc. identified in this bid division description regardless of the presence of language in other bid division descriptions that is the same or is similar to that found in this contractor's bid division description.
6. Coordination of the work of this bid division with any and all work of other bid division contractors for the scheduling and integration of the work of this contractor.
7. All contractors are responsible for the entire set of plans and specifications, including tables, schedules, and notes.
8. Provide continuous housekeeping and clean-up, and proper legal off-site disposal of any debris generated by this Bid Division's work.
9. This contractor is responsible for supplying their own dumpster(s) and all removal and disposal charges thereof. (Use of the Owner's dumpsters is strictly prohibited.)
10. All Contractors are required to inspect the existing project components and are to include all work necessary to complete the work to deliver a fully operational system in compliance with all governing codes.
11. This Contractor shall be responsible for performing all work in full compliance with all health and safety standards including Asbestos Awareness and Notification, Lead Paint Abatement, and all MIOSHA Standards. This Contractor shall also be responsible for satisfying all safety violations and/or fines resulting from the actions or lack of action by this Contractor at the sole expense of this Contractor.
12. Any contractor who makes a mistake by installing their product on another Contractor's obvious faulty work will assume responsibility for repair of said work.
13. This contractor shall repair and restore any damaged area to an original or better condition with no detectable evidence that the area has been repaired. Repairs must be done by personnel qualified in the execution of the work skilled and licensed in that trade. Whenever possible, repairs to the work shall be done by the original installer of the work.
14. Submittal of all insurance, unit pricing, schedule of values, required product data and shop drawings within (2) two weeks of Owner's Notice to commence work.

Bid Division: 230000 – Mechanical

15. Must provide all submittals within 20 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
16. Provide all layout and measurements required to perform the work of this Bid Division.
17. The Owner reserves the right to salvage any materials removed from the site during the duration of the project.
18. Coordinate delivery of materials with Construction Manager (48 hours) in advance of the delivery and provide proper personnel and equipment to perform the unloading.
19. Contractor shall submit to the field construction manager a complete written daily field report stating the work being done on site and the number of employees performing the work for each day the Contractor has representatives on site.
20. This contractor shall have a supervisor on site at all times when a crew is present on the job.
21. On Friday, or the last workday of each week, the Contractor must update the Master Copy of As-Built, as it applies to the work of their Bid Division.
22. **Wolgast uses Auto Desk Construction Cloud for their CM Software. Please note: We will upload all drawings, and drawing revisions as they are approved, to the Drawings tool. However, it is each contractor's responsibility to verify that they are working from the most up to date, approved, drawings.**

Division Inclusions:

1. Concrete Patching for mechanical and electrical trades by Bid Division 15000 and 16000
2. Selective Demolition (concrete floors, etc.).
3. No concrete is to be installed until verification of acceptable density testing. Any concrete installed without density verification will become the sole responsibility of the Contractor and may be required to be replaced at the Contractor's expense.
4. Provide all blocking required for plumbing fixture mounting.
5. Perform all connections between site utilities and building, coordinate with site contractor on utilities.
6. Patch floors with concrete, where existing fixtures and pipe are removed and capped.
7. Removal of all plumbing and heating fixtures.
8. Provide proper repair of all ceilings, walls, floors, etc., when installing new piping fixtures and hangers.
9. Furnish and install all fixtures in cabinetry as required.
10. Provide all final connections and hook-ups for kitchen equipment.
11. Furnish all louvers and access panels to masonry and drywall contractors for installation.
12. Provide shop drawings to State Fire Marshall for Plan Review (allowing sufficient time for changes that may be made and must be completed prior to beneficial occupancy).
13. Patch all demolished areas and items affected by HVAC & plumbing demolition to a condition ready to receive finishes and finish materials (finish materials by others, i.e., carpet, tile paint, etc.).
14. Perform all excavating, backfill, and compaction required for the work of this bid division.
15. Furnish and install duct detectors, back draft dampers, etc. as shown and specified, and/or required by Code.
16. Perform all demolition necessary for the completion of the work of this Bid Division as shown and specified.
17. Provide all final plumbing hook-ups to all plumbing related fixtures and equipment.
18. Provide coordination with roofing and metal contractors for roof penetrations, equipment rails and pipe boots including layouts.
19. Maintain fire rating in all walls penetrated.
20. Remove spoils from site.
21. Provide all required layouts and verify that no conflict occurs with other trades.
22. Furnish operating and maintenance manuals.
23. Provide record and as-built drawings.
24. Provide all necessary connections between temperature control and instrumentation devices and equipment to be controlled.
25. Provide roof curbs for rooftop equipment.
26. Provide all permits required.
27. Provide all required work to prepare each piece of equipment to receive and allow for proper installation and operation of the temperature control modules and related automatic temperature control devices.

Bid Division: 230000 – Mechanical

28. Provide temporary water distribution as required.
29. Provide all State Certification for equipment (boilers, etc.).
30. Refer to all equipment schedules for additional equipment to be furnished and installed (including kitchen equipment and kitchen equipment schedules).
31. Abandoning of retired plumbing.
32. Furnish test and balance reports.
33. This contractor shall coordinate phased delivery of all pre-purchased equipment with the supplier.
34. Contractor shall maintain existing HVAC systems in fully functional order in occupied areas of the building throughout the duration of the project.
35. Contractor shall furnish and install temporary insulated weather-tight closures of openings created as a result of the work in this scope in exterior surfaces to provide acceptable working conditions and protection for materials, to allow temporary heating, and building security.
36. Remove, clean, and reinstall all existing grids, vents, registers, and diffusers including those mounted in metal ceiling grid systems.
37. All HVAC equipment is to be completed with all motor starters, disconnects or other items to allow for the proper operation of the system.
38. Disconnect all roof top units to allow roofing contractor to raise and replace flashings as required.
39. Provide start-up training with Owner Representative, Architect and Construction Manager for all equipment installed.
40. Final installation and all work by this bid division must comply with governing building and life safety codes.
41. Provide water test approval two weeks prior to Owner Occupancy.

Project Inclusions:

1. Include costs for all required permits in bid proposal and coordinate all required inspections.
2. Provide all required plumbing and HVAC demolition as documented and as required for the completion of this bid division's work.
3. All plumbing and HVAC installations shall meet all required governing requirements.
4. Provide all reinstallation and installation of new work as identified and as required by this project.
5. Provide all required plumbing and HVAC insulation.
6. Furnish and install all new gas lines and tie them into the existing gas lines as indicated.
7. Provide and install all piping supports as documented.
8. Provide and install all reworked temperature controls wiring as indicated.
9. Remove and reinstall all HVAC and Plumbing items from masonry wall that is scheduled to be replaced.
10. Fire seal any penetrations to maintain wall integrity.
11. Review the milestone schedules. This bid division's work will be required to be completed at multiple locations and concurrently for some of the work. Prepare your bid proposal accordingly to allow for sufficient manpower and resources to meet the completion date. If overtime work is required to keep the project on schedule and to complete the project per the schedule, this contractor shall include any overtime or premium rates in their bid proposal as necessary to ensure the project completion date and or task completion dates are met. Note that the timing of all tasks may change as required to stay on schedule and no contractor shall cause a delay in meeting their own or any other contractor's obligations as it pertains to the milestone schedule. The milestone schedule will be used as a template to create the construction schedule once input has been received from all awarded contractors, however the completion dates as listed in the milestone schedule will need to be achieved.
12. Must provide all submittals within 10 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
13. Mandatory attendance at all required pre-installation meetings.
14. Completion of all punch list work within 5 working days or less upon receipt of punch list items, unless specific circumstances occur that are out of control of this bid division contractor dictate otherwise.
15. Provide required manpower along with required work hours (including weekends if required) to meet the indicated schedule. There will be no cost compensation to meet schedule, if this contractor is behind the published milestone schedule.
- 16.

Bid Division: 230000 – Mechanical

17. This contractor shall provide daily clean-up of all debris generated by this contractors daily work. This is not limited to the immediate area, but should also include clean-up of all dust and debris that affected adjoining areas.
18. Project Inclusions are provided as assistance for contractors that are bidding and are not an all-inclusive scope of work. It is every contractor's responsibility to review all the construction documents and prepare their bid accordingly.

Consideration for award:

The ability to begin as soon as areas of work become available. To have proper equipment and responsible personnel to complete the above list of work. To repair any adjacent materials damaged in the execution of the above-listed work. Close cooperation with the Construction Manager and other bid divisions to provide input to develop a working schedule. An approved schedule of values will be required before approval is granted for the first payment request. Expediting communication and follow-up as required.

END OF BID DIVISION 222300

BID DIVISION 230000 - MECHANICAL

Package #	Package	Number	Spec #	Spec	Title
230000 PA-001	Mechanical - Start Ups	230000-01		Plumbing & HVAC Systems - Start Ups	Signed Post Bid Interview Form
230000 PA-001	Mechanical - Start Ups	230000-02		Plumbing & HVAC Systems - Start Ups	Schedule of Values
230000 PA-001	Mechanical - Start Ups	230000-03		Plumbing & HVAC Systems - Start Ups	Signed Contracts Returned
230000 PA-001	Mechanical - Start Ups	230000-04		Plumbing & HVAC Systems - Start Ups	Payment/Performance Bonds
230000 PA-001	Mechanical - Start Ups	230000-05		Plumbing & HVAC Systems - Start Ups	Certificate of Insurance
230000 PA-001	Mechanical - Start Ups	230000-06		Plumbing & HVAC Systems - Start Ups	Employee List
230000 PA-001	Mechanical - Start Ups	230000-07		Plumbing & HVAC Systems - Start Ups	Safety Policy
230000 PA-001	Mechanical - Start Ups	230000-08		Plumbing & HVAC Systems - Start Ups	SDS Sheets
230000 PA-001	Mechanical - Start Ups	230000-09		Plumbing & HVAC Systems - Start Ups	Certificate of Subcontractor & Supplier
230000 PA-001	Mechanical - Start Ups	230000-10		Plumbing & HVAC Systems - Start Ups	AHERA Notification and Contractor Compliance Affidavit
230000 PA-001	Mechanical - Start Ups	230000-11		Plumbing & HVAC Systems - Start Ups	Mechanical Permit
230000 PACO-001	Mechanical - Close Outs	230000-12		Plumbing & HVAC Systems - Close Outs	Contractor (2) Year Guarantee
230000 PACO-001	Mechanical - Close Outs	230000-13		Plumbing & HVAC Systems - Close Outs	Consent of Surety
230000 PACO-001	Mechanical - Close Outs	230000-14		Plumbing & HVAC Systems - Close Outs	Certificate of Substantial Completion
230000 PACO-001	Mechanical - Close Outs	230000-15		Plumbing & HVAC Systems - Close Outs	Completed Punch List
230000 PACO-001	Mechanical - Close Outs	230000-16		Plumbing & HVAC Systems - Close Outs	As Built Drawings
230000 PACO-001	Mechanical - Close Outs	230000-17		Plumbing & HVAC Systems - Close Outs	All Processed Change Orders Returned
230000 PACO-001	Mechanical - Close Outs	230000-18		Plumbing & HVAC Systems - Close Outs	Current Certificate of Insurance
230000 PACO-001	Mechanical - Close Outs	230000-19		Plumbing & HVAC Systems - Close Outs	Signed Hazardous Materials Compliance Affidavit
230000 PACO-001	Mechanical - Close Outs	230000-20		Plumbing & HVAC Systems - Close Outs	Signed Asbestos Free Affidavit
230000 PACO-001	Mechanical - Close Outs	230000-21		Plumbing & HVAC Systems - Close Outs	All Other Warranties Required
230000 PACO-001	Mechanical - Close Outs	230000-22		Plumbing & HVAC Systems - Close Outs	Operations & Maintenance Manuals
230000 PACO-001	Mechanical - Close Outs	230000-23		Plumbing & HVAC Systems - Close Outs	Replacement Parts turned over to Owner
230000 PACO-001	Mechanical - Close Outs	230000-24		Plumbing & HVAC Systems - Close Outs	Inspections & Certificates
230000 PACO-001	Mechanical - Close Outs	230000-25		Plumbing & HVAC Systems - Close Outs	Mechanical Certificate of Acceptance
230000-001	Mechanical - Submittals	230000-26	230719	HVAC Piping Insulation	Product data on HVAC piping insulation.
230000-001	Mechanical - Submittals	230000-27	232113	HVAC Piping	Product data on HVAC piping.

Bid Division: 260000 – Electrical

Bid to Include:

Total Responsibility for Specification Sections:

Section 013300 Architect's Submittal Procedures
Section 014000 Quality Requirements
Section 017300 Execution
Section 260005 Basic Electrical Requirements
Section 260505 Selective Demolition for Electrical
Section 260519 Low-Voltage Electrical Power Conductors and Cables
Section 260526 Grounding and Bonding for Electrical Systems
Section 260529 Hangers and Supports for Electrical Systems
Section 260533.13 Conduit for Electrical Systems
Section 260533.16 Boxes for Electrical Systems

Limited Responsibility for Specification Sections (as it relates to work in this Bid Division):

Section 079200 Joint Sealants

Provide all labor, materials, tools, and equipment necessary to perform the work of the specified bid sections. The contractor must also furnish, deliver, unload, store, protect, erect, and install all items required for the completion of the work of this bid division in compliance with all drawings and specifications for a complete operational system including but not limited to:

All conduit, boxes, switches, etc., for a complete operational system.

General Inclusions:

1. There is no general contractor associated with this project; any and all reference to a "general contractor" related to the work of this bid division shall be understood to mean the contractor of this bid division.
2. The contractor for this bid division work is required to include but is not limited to all items, services, tasks, materials, personnel, equipment, etc. identified in this bid division description regardless of the presence of language in other bid division descriptions that is the same or is similar to that found in this contractor's bid division description.
3. Coordination of the work of this bid division with any and all work of other bid division contractors for the scheduling and integration of the work of this contractor.
4. All contractors are responsible for the entire set of plans and specifications, including tables, schedules, and notes.
5. Provide continuous housekeeping and clean-up, and proper legal off-site disposal of any debris generated by this Bid Division's work.
6. This contractor is responsible for providing their own dumpster(s) and all removal and disposal charges thereof. (Use of the Owner's dumpsters is strictly prohibited.)
7. All Contractors are required to inspect the existing project components and are to include all work necessary to complete the work to deliver a fully operational system in compliance with all governing codes.
8. This Contractor shall be responsible for performing all work in full compliance with all health and safety standards including Asbestos Awareness and Notification, Lead Paint Abatement, and all MIOSHA Standards. This Contractor shall also be responsible for satisfying all safety violations and/or fines resulting from the actions or lack of action by this Contractor at the sole expense of this Contractor.
9. Any contractor who compounds a mistake by installing their product on another Contractor's obvious faulty work will assume responsibility for repair of said work.
10. This contractor shall repair and restore any damaged area to an original or better condition with no detectable evidence that the area has been repaired. Repairs must be done by personnel qualified in the execution of the work skilled and licensed in that trade. Whenever possible, repairs to the work shall be done by the original installer of the work.

Wolgast Corporation – Construction Management

Contractor _____

Bid Division: 260000 – Electrical

11. Submittal of all insurance, unit pricing, schedule of values, required product data and shop drawings within (2) two weeks of Owner's Notice to commence work.
12. Must provide all submittals within 20 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
13. Provide all layout and measurements required to perform the work of this Bid Division.
14. The Owner reserves the right to salvage any materials removed from the site during the duration of the project.
15. Coordinate delivery of materials with Construction Manager (48 hours) in advance of the delivery and provide proper personnel and equipment to perform the unloading.
16. Contractor shall submit to the field construction manager a complete written daily field report stating the work being done on site and the number of employees performing the work for each day the Contractor has representatives on site.
17. This contractor shall have a supervisor on site at all times when a crew is present on the job.
18. On Friday, or the last workday of each week, the Contractor must update the Master Copy of As-Built, as it applies to the work of their Bid Division.
19. **Wolgast uses Auto Desk Construction Cloud for their CM Software. Please note: We will upload all drawings, and drawing revisions as they are approved, to the Drawings tool. However, it is each contractor's responsibility to verify that they are working from the most up to date, approved, drawings.**

Division Inclusions:

1. This contractor shall maintain existing electrical systems in fully functional order in all areas of the building during the duration of the project.
2. Contractor shall coordinate with concrete contractor for locations of housekeeping pads and transformer pads. Concrete is by concrete contractor, layout and coordination is by electrical contractor.
3. Provide all permits required.
4. Furnish and install exterior lights.
5. Remove spoils from site.
6. Provide all cutting and patching required for existing tie-ins.
7. Maintain fire rating at all walls penetrated.
8. All excavation, backfill, compaction, and disposal of spoil for any electrical work placed below finish grade.
9. Coordinate with other trades for rough-in locations.
10. Provide temporary lighting and power distribution. A minimum of 100 watts of temporary lighting per 250 SF of floor area.
11. Provide all plywood or nailers required for mounting of electrical, audio, fire alarm or phone equipment.
12. Furnish any access hatches to mason and drywall contractors for installation required for electrical work.
13. Final hook-up of all equipment for other disciplines of work.
14. Patch all demolished areas affected by the electrical demolition to a condition ready to receive finish materials (finish materials by others, i.e., tile, carpet, etc.).
15. Provide proper repair of all damaged ceilings, walls, floors, etc., when installing new fixtures.
16. Perform all required demolition required for this trade as shown and specified.
17. Furnish and install a complete & operational fire protection alarm system.
18. Contractor is responsible for complete code compliance of Fire Alarm System.
19. Provide "As Built" Drawings for work.
20. Provide shop drawings to State Fire Marshal Plan Review or governing authority (allowing sufficient time for changes that may be made and must be completed prior to beneficial occupancy.)
21. Install pull box and chase conduit for temp control.
22. Provide Owner with training of new equipment.

Project Inclusions:

1. Include costs for all required permits in bid proposal and coordinate all required inspections.
2. Provide all required electrical demolition work as documented and as required for the completion of this bid division's work.

Bid Division: 260000 – Electrical

3. Provide all required coordination with other Bid Division contractors for installation of all electrical materials and equipment prior to the work starting.
4. Furnish and install all conduits for cabling and data outlets as documented.
5. Furnish and install wall sleeves as required.
6. Fire seal all wall openings for electrical work per code.
7. Remove and reinstall all Electrical, Fire Alarm and Building Access Control items from masonry wall that is scheduled to be replaced.
8. Provide required manpower along with required work hours (including weekends if required) to meet the indicated schedule. There will be no cost compensation to meet schedule, if this contractor is behind the published milestone schedule.
9. This contractor shall provide daily clean-up of all debris generated by this contractors daily work. This is not limited to the immediate area, but should also include clean-up of all dust and debris that affected adjoining areas.
10. Must provide all submittals within 10 working days of contract award or sooner, unless specifically clarified with the construction manager prior to contract award.
11. Mandatory attendance at all required pre-installation meetings.
12. Review the milestone schedules. This bid division's work will be required to be completed at multiple locations and concurrently for some of the work. Prepare your bid proposal accordingly to allow for sufficient manpower and resources to meet the completion date. If overtime work is required to keep the project on schedule and to complete the project per the schedule, this contractor shall include any overtime or premium rates in their bid proposal as necessary to ensure the project completion date and or task completion dates are met. Note that the timing of all tasks may change as required to stay on schedule and no contractor shall cause a delay in meeting their own or any other contractor's obligations as it pertains to the milestone schedule. The milestone schedule will be used as a template to create the construction schedule once input has been received from all awarded contractors, however the completion dates as listed in the milestone schedule will need to be achieved.
13. Completion of all punch list work within 5 working days or less upon receipt of punch list items, unless specific circumstances occur that are out of control of this bid division contractor dictate otherwise.
14. Project Inclusions are provided as assistance for contractors that are bidding and are not an all-inclusive scope of work. It is every contractor's responsibility to review all the construction documents and prepare their bid accordingly.

Consideration for award:

The ability to begin as soon as areas of work become available. To have proper equipment and responsible personnel to complete the above list of work. To repair any adjacent materials damaged in the execution of the above-listed work. Close cooperation with the Construction Manager and other bid divisions to provide input to develop a working schedule. An approved schedule of values will be required before approval is granted for the first payment request. Expediting communication and follow-up as required.

END OF BID DIVISION 260000

BID DIVISION 260000 - ELECTRICAL

Package #	Package	Number	Spec #	Spec	Title
260000 PA-001	Electrical - Start Ups	260000-01		Electrical - Start Ups	Signed Post Bid Interview Form
260000 PA-001	Electrical - Start Ups	260000-02		Electrical - Start Ups	Schedule of Values
260000 PA-001	Electrical - Start Ups	260000-03		Electrical - Start Ups	Signed Contracts Returned
260000 PA-001	Electrical - Start Ups	260000-04		Electrical - Start Ups	Payment/Performance Bonds
260000 PA-001	Electrical - Start Ups	260000-05		Electrical - Start Ups	Certificate of Insurance
260000 PA-001	Electrical - Start Ups	260000-06		Electrical - Start Ups	Employee List
260000 PA-001	Electrical - Start Ups	260000-07		Electrical - Start Ups	Safety Policy
260000 PA-001	Electrical - Start Ups	260000-08		Electrical - Start Ups	SDS Sheets
260000 PA-001	Electrical - Start Ups	260000-09		Electrical - Start Ups	Certificate of Subcontractor & Supplier
260000 PA-001	Electrical - Start Ups	260000-10		Electrical - Start Ups	AHERA Notification and Contractor Compliance Affidavit
260000 PA-001	Electrical - Start Ups	260000-11		Electrical - Start Ups	Electrical Permit
260000 PACO-001	Electrical - Close Outs	260000-12		Electrical - Close Outs	Contractor (2) Year Guarantee
260000 PACO-001	Electrical - Close Outs	260000-13		Electrical - Close Outs	Consent of Surety
260000 PACO-001	Electrical - Close Outs	260000-14		Electrical - Close Outs	Certificate of Substantial Completion
260000 PACO-001	Electrical - Close Outs	260000-15		Electrical - Close Outs	Completed Punch List
260000 PACO-001	Electrical - Close Outs	260000-16		Electrical - Close Outs	As Built Drawings
260000 PACO-001	Electrical - Close Outs	260000-17		Electrical - Close Outs	All Processed Change Orders Returned
260000 PACO-001	Electrical - Close Outs	260000-18		Electrical - Close Outs	Current Certificate of Insurance
260000 PACO-001	Electrical - Close Outs	260000-19		Electrical - Close Outs	Signed Hazardous Materials Compliance Affidavit
260000 PACO-001	Electrical - Close Outs	260000-20		Electrical - Close Outs	Signed Asbestos Free Affidavit
260000 PACO-001	Electrical - Close Outs	260000-21		Electrical - Close Outs	All Other Warranties Required
260000 PACO-001	Electrical - Close Outs	260000-22		Electrical - Close Outs	Operations & Maintenance Manuals
260000 PACO-001	Electrical - Close Outs	260000-23		Electrical - Close Outs	Replacement Parts turned over to Owner
260000 PACO-001	Electrical - Close Outs	260000-24		Electrical - Close Outs	Inspections & Certificates
260000 PACO-001	Electrical - Close Outs	260000-25		Electrical - Close Outs	Electrical Certificate of Acceptance
260000 PACO-001	Electrical - Close Outs	260000-26	260533.16	Boxes for Electrical Systems	Maintenance manuals on boxes for electrical systems.
260000 PACO-001	Electrical - Close Outs	260000-27	260533.16	Boxes for Electrical Systems	Extra Materials: Keys for Lockable Enclosures. Two of each different key.
260000-001	Electrical - Submittals	260000-28	260533.16	Boxes for Electrical Systems	Product data on boxes for electrical systems.
260000-001	Electrical - Submittals	260000-29	260526	Grounding and Bonding for Electrical Systems	Product data on grounding and bonding for electrical systems.
260000-001	Electrical - Submittals	260000-30	260519	Low-Voltage Electrical Power Conductors and Cables	Product data on low-voltage electrical power conductors and cables.

PART 1 – GENERAL

1.01 DEFINITION

- A. Clarification Request forms shall be used to document all questions regarding bidding documents and technical specifications. Please use **ONE** Clarification Form for each item.
- B. The Clarification Request form follows as page 2 of this Section.

1.02 PREPARATION OF CLARIFICATION REQUEST FORM

- A. The Contractor shall complete the following items on the Clarification Request form:
 - 1. Date
 - 2. Contractor Name
 - 3. Contractor contact person
 - 4. Contractor email, phone, and fax number
 - 5. Item(s) for clarification
- B. The Contractor shall forward the Clarification Request form, via fax or email, to the Construction Manager **no later than 5 days prior to bid due date**. Request from bidders for clarification, or interpretation of the bidding documents must reach the Project Team five days before the bid date, or by the date addressed in the pre-bid agenda. Any bidder clarifications which reach the project team after such dates have passed will not be considered.

1.03 RESPONSIBILITIES FOR COMPLETION OF CLARIFICATION REQUEST FORMS

- A. The Construction Manager shall review and number Clarification Request forms as they are received.
- B. Clarification Requests regarding BIDDING INSTRUCTIONS OR PROCEDURES shall be answered by the Construction Manager.
- C. Clarification Requests regarding the DESIGN and/or TECHNICAL SPECIFICATIONS shall be answered by the Architect. The Construction Manager shall forward technical specification clarifications to the Architect, via fax or mail, as they are received.

1.04 RESPONSE TO CLARIFICATION REQUEST FORMS

- A. The Architect shall review each Clarification Request form received, and return responses to the Construction Manager.
- B. As noted in Items 1.03.B and 1.03.C above, it is the responsibility of both the Construction Manager and the Architect to respond to Clarification Request forms.
- C. Responses shall be issued via the "Response" section of the Clarification Request form or Addenda.

CLARIFICATION REQUEST FORM

Date: _____

Wolgast Clarification Request
#: _____

To: Wolgast Corporation
Christopher Ice (cice@wolgast.com) and **Judy Rauch** (jrauch@wolgast.com)
4835 Towne Centre Road, Suite 203
Saginaw, MI 48604
Phone (989) 790-9120, Fax (989) 790-9063

From: _____
Contractor Name _____
Contact Name _____
Email Address _____
Phone # _____ Fax # _____

Bid Division # and Name: _____

CSI Code (If Applicable): _____

Drawing #: _____ Detail or Item #: _____

Reason for Request: ☐ More Detail Needed ☐ Engineering Clarification ☐ Alternate Proposal ☐ Other

Project: **Bid Pack No. 5 – High School Gym Wall Repair**

Site Location: **Mount Pleasant High School**

ITEM(S) FOR CLARIFICATION OF BID: (Please use one form for each item)

Please review and respond to the following item(s) for clarification:

RESPONSE: ☐ ITEM TO BE INCLUDED IN ADDENDUM

Construction Manager: _____
Signature Date

Architect: _____
Signature Date

END OF SECTION 00310

PART 1 – GENERAL

1.01 BID SECURITY

- A. Each Proposal shall be accompanied by Bid Security pledging that the Bidder will enter into a contract with the Owner on the terms stated in the Proposal, and will, if required, furnish bonds as described in Section 00600. Should the Bidder refuse to enter into such contract or fail to furnish such Bonds, the amount of the Bid Security shall be forfeited to the Owner as liquidated damages, not as a penalty.
- B. Bid Security shall be in the amount of five percent (5%) of the Base Bid(s).
- C. Bid Security for each Proposal containing Bids for multiple Bid Divisions shall be in the amount of five percent (5%) of the total Base Bids for the highest-priced combination of Bid Divisions included in the Proposal
- D. Bid Security may take the form of a **Bid Bond, a Cashier's Check, or a Money Order made payable to the Owner.** When submitting a Cashier's Check or Money Order a separate check or money order must accompany each Bid Division.
- E. Bid Security that is in the form of a Cashier's Check or Money Order will be returned to Bidders within a reasonable period after construction contracts have been executed, returned and approved by the Owner.

END OF SECTION 00410

PART 1 – GENERAL

1.01 OWNER/CONTRACTOR AGREEMENT

- A. The Agreement between the Owner and the Contractor will be written on the Owner's standard Owner/Contractor Agreement Form. A sample of this Form appears as Section 00510.
- B. The Owner/Contractor Agreement Form will be filled in by the Owner, as appropriate for each Contractor and will be sent to each Contractor.
- C. The executed Owner/Contractor Agreement, the General Conditions and the other Contract Documents will be the entire, integrated Contract between the Owner and each Contractor.
- D. Upon receipt of an Owner/Contractor Agreement, each successful Bidder shall review it for completeness and accuracy, execute it and return it to the Owner's Representative for delivery to the Owner.
- E. Each successful Bidder shall submit all required post-bid documents, including Labor and Material Payment Bond and Performance Bond (Section 00600) unless waived by the Owner, Certificates of Insurance (Section 00650), Schedule of Values (Section 00670), Subcontractor and Supplier Listing (Section 00680), and Employee Listing (Section 00690) as a prerequisite to execution of the Owner/Contractor Agreement
- F. The Owner will execute each Owner/Contractor Agreement after it has been properly executed by the Bidder and after all required post-bid documents have been submitted.

1.02 NOTICE TO PROCEED

- A. The Owner may elect to issue Notices to Proceed prior to the execution of Owner/Contractor Agreements.
- B. Upon receipt of Notice to Proceed, each Contractor shall commence work in accord with the conditions contained in the Notice to Proceed
- C. Regardless of the provisions of any Notice to Proceed or of this Section, no Contractor shall commence work until all required insurance is in force and Certificates of Insurance (Section 00650) have been submitted to the Owner's Representative for delivery to the Owner.
- D. Prior to commencement of work, Contractors shall submit evidence satisfactory to the Owner that required bonds will be furnished and shall deliver the Bonds by the date the Contractor executes the Owner/Contractor Agreement.
- E. The Owner may include Notice to Proceed in Purchase Orders.

1.03 COMMENCEMENT OF WORK

- A. Each Contractor shall commence work immediately upon receipt of Notice to Proceed under the conditions contained in the Notice to Proceed or upon execution of an Owner/Contractor Agreement, whichever is earlier.

END OF SECTION 00500

**SAMPLE
OWNER-CONTRACTOR
CONTRACT ON
FOLLOWING PAGE**

END OF SECTION 00510

AIA[®] Document A132[™] - 2019

Standard Form of Agreement between Owner and Contractor, Construction Manager as Adviser Edition

AGREEMENT made as of the «Day» of «Month» in the year «Year»
(in words, indicate day, month and year)

BETWEEN the Owner:

(Name, legal status, address and other information)

«Owner Name»

«Owner Address»

«Owner CSZ»

Telephone:

Facsimile:

and the Contractor:

(Name, legal status, address and other information)

«Contractor»

«Address»

«CSZ»

Telephone:

Facsimile:

for the following Project:

(Name, legal status, address and other information)

«Project Description»

«Project Name»

«Project Address»

«Project CSZ»

«Bid Division» - «Description»

The Construction Manager is:

(Name, legal status, address and other information)

Wolgast Corporation

4835 Towne Centre Road, Suite 203

Saginaw, MI 48604

Telephone: (989) 790-9120

Facsimile: (989) 790-9063

The Architect is:

(Name, legal status, address and other information)

«Architect Name»

«Architect Address»

«Architect CSZ»

Telephone:

Facsimile:

The Owner and Contractor agree as set forth below.

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

This document is intended to be used in conjunction with AIA Documents A232[™]-2019, General Conditions of the Contract for Construction. Construction Manager as Adviser Edition: B132[™]-2019, Standard Form of Agreement Between Owner and Architect, Construction Manager as Adviser Edition; and C132[™]-2019, Standard Form of Agreement Between Owner and Construction Manager as Adviser.

AIA Document A232[™]-2019 is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

TABLE OF ARTICLES

1	THE CONTRACT DOCUMENTS
2	THE WORK OF THIS CONTRACT
3	DATE OF COMMENCEMENT AND DATES OF SUBSTANTIAL COMPLETION
4	CONTRACT SUM
5	PAYMENTS
6	DISPUTE RESOLUTION
7	TERMINATION OR SUSPENSION
8	MISCELLANEOUS PROVISIONS
9	ENUMERATION OF CONTRACT DOCUMENTS

ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of this Agreement, bid specifications, Owner-accepted portions of bid responses and attachments, thereto, other documents listed in this Agreement, and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than Modifications, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

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

§ 2.1 Provide all work described by but not limited to Bidding Requirements, Contract Forms and Conditions of the Contract, Additional Conditions of the Contract, General Conditions of the Contract for Construction, Division 1 General Requirements and:

BID DIVISION: «Bid_Division» - «Description»

Provide all labor, materials, tools and equipment necessary to perform the work of the specified bid sections. The Contractor must also furnish, deliver, unload, store, protect erect and install all items required for the satisfactory completion of the work of this bid division (as indicated on drawings and associated specifications.) Including but not limited to:

«Written_Description»

INCLUDING SECTIONS: «Including_Sections1»

Limited Responsibility: «Limited_Responsibility»

§ 2.2	<u>Pre-Bid Meeting Agenda and Meeting Minutes dated:</u>	« <u>Pre_Bid_Date</u> »
§ 2.3	<u>Bid Opening dated:</u>	« <u>Bid_Opening</u> »
§ 2.4	<u>Post-Bid Interview dated:</u>	« <u>Post_Bid_Interview_Date</u> »
§ 2.5	<u>Pre-Construction Meeting Agenda and Meeting Minutes dated:</u>	« <u>Pre_Con_Date</u> »
§ 2.6	<u>Performance Bond and Labor and Material Payment Bond required:</u>	« <u>Bond_Required</u> »
§ 2.7	<u>Project Start Date:</u>	« <u>Project_Start_Date</u> »

§ 3.3.2 The Contractor agrees that time is of the essence and to start work when directed by the Construction Manager and to furnish sufficient materials and a sufficient number of properly skilled works, so as not to delay the work of any other Contractor or completion of the project.

ARTICLE 4 CONTRACT SUM

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

(Check the appropriate box.)

☒ Stipulated Sum, in accordance with Section 4.2 below:

(Based on the selection above, complete Section 4.2, 4.3 or 4.4 below.)

§ 4.2 Stipulated Sum

§ 4.2.1 The Stipulated Sum shall be «Contract Amount» Dollars (\$«Contract Amount »), subject to additions and deductions as provided in the Contract Documents. The Contract Sum includes Base Bid, PLM Bonds, and Alternates.

Contract amount includes: Base Bid \$«Base Bid», PLM Bond Amount \$«Bond Amount», Alternates \$«Alternate» totaling \$«Contract Amount ».

§ 4.2.2 Alternates

§ 4.2.2.1 Alternates, if any, included the Contract Sum:

Item	Price
«Alternate Description»	

§ 4.2.2.2 Subject to the conditions noted below, the following alternates may be accepted by the Owner in writing following execution of this Agreement. Upon the Owner's written acceptance, the accepted alternate shall constitute Modification to this Agreement.

(Insert below each alternate and the conditions that must be met for the Owner to accept the alternate.)

Item	Price	Conditions for Acceptance
------	-------	---------------------------

§ 4.2.3 Allowances, if any, included in the Contract Sum:

(Identify each allowance.)

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

§ 4.2.4 Unit Prices, if any:

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

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

To the extent this Agreement includes unit prices, those unit prices shall be fixed for the entire term of this Agreement through Final Completion. Any increase in any unit price or any price in labor or materials shall be borne by the Contractor and shall not be passed on to the Owner or submitted to the Owner as a Change Order or otherwise reimbursed by the Owner. No additional mark-ups shall apply to unit prices.

§ 4.3 Contract Sum

The Owner agrees to pay and the Contractor agrees to accept the sum set forth in the Contract Sum as full compensation for all labor, supervision, equipment, home office and field overhead, materials, administrative and incidental expense required in executing all of the Work contemplated in this Agreement as set forth in the plans and specifications, including all loss or damage arising out of the Work, as impacted by the elements or from any

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obstruction, delay or difficulties which may be encountered. It is further agreed that the Work may be modified only in accordance with the Contract Documents. No claims for extra compensation or adjustments in the Contract Sum will be made by or due to the Contractor on account of delay, costs incurred as a result of variations within the as-planned schedule, or the failure of others to complete any of the Work as scheduled.

ARTICLE 5 PAYMENTS

§ 5.1 Progress Payments

§ 5.1.1 The Construction Manager will provide a Contractor Invoice Form to the Contractor for submitting the Contractor's request for payment each month. All reference to "Application for Payment" or "Progress Payment Request" shall mean "Contractor Invoice Form". Based upon Applications for Payment submitted to the Construction Manager by the Contractor and upon certification of the Application for Payment by the Construction Manager and Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor, as provided below and elsewhere in the Contract Documents.

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

See Contractor Invoice Form Due Date on Attachment "A"

§ 5.1.3 Provided an Application for Payment is received by the Construction Manager not later than the "Contractor Invoice Form Due Date" found on Attachment "A", the Owner shall make payment of the amount certified in the Application for Payment to the Contractor for all undisputed amounts not later than forty-five (45) days after the "Owner Approves Invoice" date found on Attachment "A". If an Application for Payment is received by the Construction Manager after the application date fixed above, payment for all undisputed amounts shall be made by the Owner after the Construction Manager receives the Application for Payment and at the payment date for the Applications for Payment of the following month.

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

§ 5.1.4 Progress Payments Where the Contract Sum is Based on a Stipulated Sum

§ 5.1.4.1 Each Contractor Invoicing Form and Construction Manager prepared Progress Payment Request Form shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Construction Manager and Architect may require. This schedule of values, unless objected to by the Construction Manager, shall be used as a basis for reviewing the Contractor's Invoicing Form and Construction Manager prepared Progress Payment Form.

§ 5.1.4.2 The Contractor Invoicing Form shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.4.3 In accordance with AIA Document A232™-2019, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified, and subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

§ 5.1.4.3.1 The amount of each progress payment shall first include:

- .1 That portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of ten percent (10%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute may be included as provided in Section 7.3.9 of the General Conditions; and
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction, or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing, less retainage of ten percent (10%); and
- .3 Add that portion of Construction Change Directives that the Owner determines, after advice and consent from the Architect in the Architect's professional judgment, to be reasonably justified; and

- .4 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to ninety percent (90%) of the Contract Sum, less such amounts as the Construction Manager and Owner recommends and the Owner determines for incomplete Work and unsettled claims; and
- .5 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of the General Conditions.

§ 5.1.4.3.2 The amount of each progress payment shall then be reduced by:

- .1 The aggregate of any amounts previously paid by the Owner.
- .2 The amount, if any, for Work that remains uncorrected and for which the Construction Manager or Architect has previously withheld or nullified a Certificate for Payment;
- .3 Any amount for which the Contractor does not intend to pay a Subcontractor or material supplier, unless the Work has been performed by others the Contractor intends to pay.
- .4 For Work performed or defects discovered since the last payment application, any amount for which the Architect may withhold payment, refuse to certify in the Certificate for Payment, or nullify a Certificate of Payment in whole or in part, as provided in Article 9 of AIA Document A232-2019;
- .5 Any amount for which the Owner withheld payment, and
- .6 Retainage withheld pursuant to Section 5.1.7.

§ 5.1.4.4 The Contractor shall submit to the Construction Manager an itemized progress payment request by the date required in Section 01045 of the Project Manual. The progress payment request is referred to as the Contractor Invoice Form. After the schedule of values is submitted to and approved by the Construction Manager, the Construction Manager will prepare a Contractor Invoice Form master template in accordance with the approved schedule of values and provide it to the Contractor for use to prepare all progress payment requests. The Contractor shall submit a signed and notarized original Contractor Invoice Form for each monthly progress payment request. It shall be accompanied by such supporting data and documents the Owner, Construction Manager and Architect may require substantiating the Contractor's right to payment.

1. Contractor Invoice Form as defined as: See Section 1045 (Contractors Application for Payment)
2. Cost Control Manual as defined as: See Section 1045 (Contractors Application for Payment)
3. Progress Payment Request as defined as: See Section 1045 (Contractors Application for Payment)

§ 5.1.7 Retainage

§ 5.1.7.1 For each progress payment made prior to when the Work of this Contract is substantially complete, the Owner may withhold the following amount, as retainage, from the payment otherwise due:

(Insert a percentage or amount to be withheld as retainage from each Application for Payment. The amount of retainage may be limited by governing law.)

Ten percent (10%) retainage

§ 5.1.7.2 Reduction or limitation of retainage, if any, shall be as follows:

(If the retainage established in Section 5.1.7.1 is to be modified prior to when the entire Work of this Contract is substantially complete, including modifications for completion of portions of the Work as provided in Section 3.4.2, insert provisions for such modifications.)

Ten percent (10%) retainage shall be held back until the project is complete.

§ 5.1.7.3 Except as set forth in this Section 5.1.7.3, when the Work of this Contract is finally complete, the Contractor may submit an Application for Payment that includes the retainage withheld from prior Application for Payment pursuant to this Section 5.1.7. The Application for Payment submitted when the Work of this Contract is finally complete shall not include retainage as follows:

(Insert any other conditions for release of retainage when the Work of this Contract is substantially complete, or upon Substantial Completion of the Work of all Contractors on the Project or portions thereof.)

Damages incurred by the Owner due to the Contractor's negligence or breach of this Agreement.

§ 5.2 Final Payment

§ 5.2.1 Final Payment Where the Contract Sum is Based on a Stipulated Sum

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

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Article 12 of AIA Document A232-2019, as modified, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment or Project Certificate for Payment has been issued by the Architect.

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

If amounts are withheld from the final payment to cover any incomplete work, such withheld amounts are not considered retainage and shall not be paid to the Contractor until the work is actually completed and accepted. Such withholdings shall not be less than 150% of the estimated cost to complete the work.

§ 5.2.1.3 The following must be submitted to the Construction Manager before the acceptance and submission of final payment in addition to requirements of other sections:

- .1 All required closeout documents including warranties, guarantees, operation and maintenance documents, and training;
- .2 As-Built Drawings;
- .3 Itemized lists of all surplus and extra materials required per specifications at which time the Construction Manager will schedule the delivery of such materials to the Owner by the Contractor;
- .4 Consent of Surety to Final Payment;
- .5 Submit Releases and Final Unconditional Waivers of Lien from all suppliers and subcontractors;
- .6 Submit certification stating that no materials containing asbestos were incorporated into the Work;
- .7 Submit certification that all punch list items have been completed.

§ 5.3 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

(Insert rate of interest agreed upon, if any.)

Five Percent (5%) per annum % See MCL 438.31

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Initial Decision Maker

The Architect will serve as Initial Decision Maker pursuant to Section 15 of AIA Document A232-2019, as modified.

(If the parties mutually agree, insert the name, address and other contact information of the Initial Decision Maker, if other than the Architect.)

N/A

§ 6.2 Binding Dispute Resolution

For any Claim subject to, but not resolved by, mediation pursuant to Section 15 of AIA Document A232-2019, as modified, the method of binding dispute resolution shall be as follows:

(Check the appropriate box.)

- ☐ Arbitration pursuant to Section 15 of AIA Document A232-2019
- ☒ Litigation in a court of competent jurisdiction
- ☐ Other: *(Specify)*

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

§ 6.2.1 The Owner and the Contractor agree that all disputes between them arising out of or relating to this Agreement shall be submitted to non-binding mediation, unless the parties mutually agree otherwise. All parties shall endeavor to settle disputes by mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect. Demand for mediation shall be filed in writing with the other party of this Agreement and with the American Arbitration Association. A demand for mediation shall be made within a reasonable time after the claim, dispute, or other matter in writing to the other party. In the event non-binding mediation fails to resolve any or all of the disputes or claims, the parties may pursue relief through any other legal and/or equitable means.

§ 6.2.2 The Owner reserves the right in its discretion to require consolidation or joinder of any mediation relating to this Agreement with another mediation involving an independent contractor or consultant engaged by the Owner in connection with the Project. Agreement in the event the Owner believes such consolidation or joinder is necessary in order to resolve a dispute or avoid duplication of time, expense, or effort.

§ 6.2.3 In the event the Owner is involved in a dispute which is not subject to mediation involving a person or entity not a party to this Agreement, the mediation provision of this Article shall be deemed to be void and nonexistent in the event the Owner, in its discretion, determines the Contractor should become a part to that dispute by joinder or otherwise.

§ 6.2.4 The Owner reserves the right to require any mediation to be held near the Owner's principal place of business.

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 Where the Contract Sum is a Stipulated Sum

§ 7.1.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A232-2019, as modified.

§ 7.1.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A232-2019, as modified.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A232-2019 or another Contract Document, the reference refers to that provision as modified by the Owner and as amended or supplemented therein, or as amended or supplemented by other provisions of the Contract Documents. All references to AIA Document A232-2019 refer to that document as modified by the Owner, which modified document is incorporated into this Agreement as modified. The Contractor may request a copy of that document from the Construction Manager.

§ 8.2 The Owner's representative:

(Name, address, email address, and other information)

«Owner Name»

«Owner Address»

«Owner CSZ»

§ 8.3 The Contractor's representative:

(Name, address, email address, and other information)

«Contractor»

«Address»

«CSZ»

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

§ 8.5 Insurance and Bonds

§ 8.5.1 The Owner and the Contractor shall purchase and maintain insurance as set forth in AIA Document A132™-2019, Standard Form of Agreement Between Owner and Contractor, Construction Manager as Adviser Edition, and elsewhere in the Contract Documents.

Type of Insurance

Limit of Liability (\$0.00) Per Specifications

§ 8.5.2 The Contractor shall provide bonds as set forth in AIA Document A132™-2019, and elsewhere in the Contract, as required by MCL 129.201, et seq.

§ 8.8 Other provisions:

§ 8.8.1 The Project Team is comprised of the Owner, Construction Manager, Owner's Representative and Architect.

§ 8.8.2 The Bid Division Description(s) outline the work items that the Contractor is responsible to provide for the Project regardless of any customary practices or agreements of that trade.

§ 8.8.3 If a Project Team member has reasonable objection to the actions of or the manner by which work is performed by a person directly employed by the Contractor or by any subcontractor of the Contractor, the Contractor shall propose another to whom the Project Team has no reasonable objection. Any cost associated with the removal and replacement of such a person shall be at the expense of the Contractor. Nothing herein shall be interpreted to modify the independent contractor relationship between Owner and Contractor.

§ 8.8.4 All Change Orders and Change Directives will be initiated by a Change Event. (Reference Sections 01051, and 01053 of the Project Manual). The Change Event will be the instrument by which the Contractor will submit a detailed and itemized cost proposal for a proposed change for review by the Construction Manager, Owner's Representative and Architect, and the approval by the Owner, before the contract change is issued. A Change Event shall not alter the Contractor's obligation to comply with the process of filing claims in accordance with other provisions of this agreement.

§ 8.8.5 All Contractors must conform to the provisions of the Michigan Right-To-Know Law, 1986 PA 80. All Contractors must have available on site a copy of all Safety Data Sheets and in addition provide a copy to the Construction Manager. The Construction Manager will return the copy of the Contractor's Safety Data Sheets at the completion of the project.

§ 8.8.6 The Contractor shall include similar dispute resolution provisions in all agreements with subcontractors, sub-consultants, suppliers, or fabricators so retained, thereby providing for a consistent method of dispute resolution among the parties to those agreements.

§ 8.8.7 In the event of any inconsistency between this agreement and the General Conditions of the Contract for Construction (the "General Conditions"), the terms of this agreement shall govern.

§ 8.8.8 Claims or causes of action by the Owner arising under this Agreement shall be subject to the limitations provisions defined in Michigan law, except that in no event shall a claim or cause of action by the Owner be deemed untimely if filed within six (6) years of the final project completion. This provision is acknowledged to apply notwithstanding any other and shorter time frames contractually applicable to claims of the Contractor.

§ 8.8.9 The Agreement shall be governed by the laws of the State of Michigan.

§ 8.8.10 The Owner, being a governmental unit, is protected by the Michigan Void Construction Contracts Act, MCL 691.991.

§ 8.8.11 Notwithstanding any provisions within the Contract Documents, nothing shall be deemed a waiver of any immunity granted to Owner by law or statute, including but not necessarily limited to, governmental immunity under MCL 691.3407. The provisions of the General Conditions related to any waiver of subrogation are hereby deleted from the document and shall be deemed to have no effect. Further, any provision interpreted as the Owner waiving consequential or other indirect damages shall be ineffective and void.

§ 8.8.12 The Contractor agrees that neither it nor its Subcontractors will discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to hire, tenure, conditions or privilege of employment, or any matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, sexual orientation, gender identity or expression, height, weight, or marital status. Breach of this covenant may be regarded as a material breach of this Agreement.

§ 8.8.13 All Contractor employees assigned to work under this Agreement may, at Owner's discretion, be subject to a background check and clearance by the Owner. Failure to obtain such clearance from the Owner may result in mandatory dismissal from the Owner's property and/or termination of the Agreement.

§ 8.8.14 The Contractor shall indemnify and hold harmless the Owner and its board members, officers, administrators, employees, and agents ("Indemnified Parties") from and against all claims, damages, losses and expenses, including but not limited to attorneys' fees arising out of, or resulting from, this Agreement or Contractor's performance of the Work. The Contractor shall defend any and all suits brought against the Indemnified Parties by any party for damage to property and/or injury or death to persons claimed to have been caused by Contractor's performance of the Work. In the event of any such injury, death, loss, damage, or claim (or notice of any claim related to same). Contractor shall immediately give written notice to Owner regarding same.

§ 8.8.15 The modifications made to AIA Document A232-2019 Edition by the Owner are hereby incorporated into this Agreement.

§ 8.8.16 All specified insurance certificates and/or insurance policies must be received by the Construction Manager prior to the Contractor commencing work. The Contractor agrees to furnish a performance bond, and labor and materials payment bond for the full amount of this contract, including change orders.

ARTICLE 9 ENUMERATIONS OF CONTRACT DOCUMENTS

§ 9.1 This Agreement is comprised of the following documents:

- .1 AIA Document A132™-2019, Standard Form of Agreement Between Owner and Contractor, Construction Manager as Adviser Edition, as modified.
- .2
- .3 AIA Document A232™-2019, General Conditions of the Contract for Construction, Construction Manager as Adviser Edition, as modified. See Section 8.1.
- .4
- .5 The Drawings are as follows, and are dated «Drawings_Dates» unless a different date is shown below: See Attachment "C"

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

- .6 The Specifications are those contained in the Project Manual dated «Manual_Dated» unless a different date is shown below: See Attachment "B"

Section	Title	Date	Pages
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- .7 The Addenda, if any:

Number	Date	Pages
«Addendum_1»	«Adm_Date»	

«Addendum 3»	«Adm 3 Date»
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.8 Other Exhibits:

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

Pre-Construction Meeting and Agenda

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

CONTRACTOR
«Contractor»

(Signature)

(Printed name and title)

(Date)

PART 1 – GENERAL

1.01 BID BONDS

- A. Bid Security must be in the form of a Bid Bond or a certified check made payable to the Owner.
- B. When a Bid Bond is submitted, the Owner shall be listed as obligee.
- C. When a Bid Bond is submitted, the attorney-in-fact that executes the bond on behalf of the Surety shall attach to the Bond a certified, current copy of their Power of Attorney.
- D. **THE BID BOND AND ALL OTHER BONDS MUST BE ISSUED BY A SURETY COMPANY LICENSED AS SUCH TO DO BUSINESS IN THE STATE OF MICHIGAN.**

1.02 LABOR & MATERIAL PAYMENT BONDS AND PERFORMANCE BONDS

- A. The Owner reserves the right to require any successful Bidder to furnish both a Labor and Material Payment Bond, and a Performance Bond, each in the amount of one hundred percent (100%) of their contract amount.
- B. **THE LABOR & MATERIAL PAYMENT BOND AND THE PERFORMANCE BOND MUST BE ISSUED BY A SURETY COMPANY LICENSED AS SUCH TO DO BUSINESS IN THE STATE OF MICHIGAN.**
- C. When required, Labor and Material Payment Bonds and Performance Bonds must be separate. The combined form will not be accepted. Labor & Material Payment Bonds and Performance Bonds must be submitted on AIA Document A312, 2010 edition, without modifications.
- D. When submitted, Labor and Material Payment Bonds and Performance Bonds shall include:
 - 1. Full name and address of Contractor Surety and Owner.
 - 2. The proper Contract Date.
 - 3. The exact amount of the Contract.
 - 4. A description of the contract work / project.
 - 5. The Owner's name and address.
 - 6. An incorporation by reference of the contract terms.
 - 7. Language obligating the Surety, jointly and severally, with the Contract to the Owner
 - 8. The condition for discharge to the Surety.
 - 9. Signature.
 - 10. Corporate Seal, if applicable.
 - 11. Notarization.
 - 12. Power of Attorney.

1.03 SUPPLY BONDS

- A. The Owner reserves the right to require any direct supplier to furnish a Supply Bond in the amount of one hundred percent (100%) of their contract amount.
- B. Supply Bonds shall include all information required above (reference 1.02C above) for Labor and Material Payment Bonds and Performance Bonds.
- C. **ALL SUPPLY BONDS SHALL BE LEGAL AND ENFORCEABLE IN THE STATE OF MICHIGAN.**

1.04 BOND COSTS IN BIDS

- A. Do not include costs for Labor and Material Payment Bond(s), Performance Bond(s), or Supply Bond(s) in Base bid. State the cost of such Bond(s) separately, in the space(s) provided on the Proposal Form (Section 00300).

1.05 SUBMISSION OF BONDS

- A. Bonds shall be submitted to the Construction Manager for delivery to the Owner within fifteen (15) days following the date of issue of the Contract.
- B. Bonds must be submitted prior to contract execution and accepted by the Owner before work may begin on-site.
- C. If the work is commenced prior to contract execution in response to a Notice to Proceed (reference Section 00500), the Contractor shall, prior to commencement of the work, submit evidence satisfactory to the Owner that required bonds will be furnished, and shall deliver the Bonds by the date the Bidder executes the Owner/Contractor Agreement (reference Section 00510).

END OF SECTION 00600

PART 1 – GENERAL

1.01 INSURANCE CERTIFICATES

- A. Each Contractor shall provide, prior to beginning of Work, a certificate of insurance for delivery to the Owner indicating that all required insurance coverage is in force.
- B. Use standard Insurance Certificate Form. The Accord Form 25 (2016/03) are preferable forms. These forms should be obtained from your Insurance agent.
- C. Issue all certificates to: **Mount Pleasant Public Schools
720 North Kinney Avenue
Mount Pleasant, MI 48858**
- D. Certificates must show as 'additional insured' the Owner, **Mount Pleasant Public Schools**, the Architect, **Kingscott Associates, Inc.**, and the Construction Manager, **WOLGAST CORPORATION**.
- E. A "Letter of Compliance" must be completed and submitted along with the certificate of insurance. The "Letter of Compliance" form is Page 3 of this section.
- F. **Insurance certificates must be completed as follows: (please refer to corresponding numerals on the sample certificate (following instructions) and also reference the "Section 00700 - General Conditions of the Contract for Construction."**
 - 1. This blank is to be dated the date the certificate of insurance is issued.
 - 2. This blank is to provide the complete name and address of the insurance agency issuing the certificate.
 - 3. This blank is to provide the full name and address of the "prime contractor."
 - 4. These blanks are to provide the name (or names) of the insurance company (ies) providing coverage for the specific coverage issued on the certificate.
 - 5. General Liability
 - a. General Liability – All blanks must be checked in this section and policies must be on an "occurrence" basis.
 - b. Policy Number – A policy number must be listed here.
 - c. Policy "effective" and "expiration" dates must be listed in these two blanks.
 - d. This section must be filled in with dollar amounts (listed in thousands). Please refer to the example on the following page.
 - 6. Automobile liability
 - a. These blanks must be filled in with either:
 - Option 1: Any Auto, Hired, and Non-Owned automobiles OR
 - Option 2: All Owned Autos (Priv. Pass.), All Owned Autos (Other than Priv. Pass.), Hired Autos, and Non-Owned Autos.
 - b. Policy Number – A policy number must be listed here.
 - c. Policy Effective and Expiration dates must be listed in these two blanks.
 - d. This Section must be filled in with dollar amounts (in thousands).
 - 7. Excess Liability (Provide \$2 million Excess Liability Umbrella policy):
 - a. This blank must be checked with the "Umbrella Form."
 - b. Policy Number – A policy number must be listed here.
 - c. Policy Effective and Expiration dates must be listed in these blanks.
 - d. If this section is required (see Item 7 above), both of these blanks must be filled in with a minimum of \$2,000,000 and \$2,000,000.

8. Worker's Compensation
 - a. Nothing needs to be checked here.
 - b. Policy Number – A policy number must be listed here.
 - c. Policy Effective and Expiration dates must be listed in these blanks.
 - d. These blanks must be filled in with minimum limits as follows:
 - \$500,000 (each accident)
 - \$500,000 (disease policy limits)
 - \$500,000 (disease each employee)
9. This section need not be completed unless some unique coverage is required for a certain type of job.
10. This section should contain the listing of the additional insured as in 1.01D. The names of the Owner, Architect, and Construction Manager must be listed here.
11. The Owner should be listed here, as this is the actual Certificate Holder. List the Owner as follows:

Mount Pleasant Public Schools

12. This blank must show the number thirty (30), indicating that the Owner and all additional insured parties will receive at least thirty (30) days' notice of cancellation of any of the policies listed on the certificate.
13. The certificate must be signed by a licensed insurance agent or representative of the insurance company in order to be valid.

NOTE: Sample Certificate of Liability and Letter of Compliance follows.

Letter of Compliance

Owner: _____

Contractor: _____

Project: _____

This letter is to acknowledge that I/We am/are the Insurance Agent(s) for the above named Contractor and furthermore, that we have reviewed the insurance coverage required under this Contract with the Owner:

Mount Pleasant Public Schools

We hereby certify that said Contractor is in compliance with all insurance coverage required under this Contract with the Owner referenced above.

We hereby certify that said Contractor is in compliance with all insurance requirements, whether or not so evidenced on the attached certificate of insurance.

Signed: _____

Agency: _____

Address: _____

Agent: _____

Witness: _____

Date: _____

Notary: _____

My Commission
Expires: _____

For: _____

Contractor: _____

Address: _____

Bid Division: _____



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
(1)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER (2)	CONTACT NAME:		
	PHONE (A/C, No, Ext):	FAX (A/C, No):	
INSURED (3)	E-MAIL ADDRESS:		
	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: (4)		
	INSURER B:		
	INSURER C:		
	INSURER D:		
INSURER E:			
INSURER F:			

COVERAGES**CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY (5A) <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		(5B)	(5C)		EACH OCCURRENCE (5D) \$ 1,000,000.00 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000.00 MED EXP (Any one person) \$ 5,000.00 PERSONAL & ADV INJURY \$ 1,000,000.00 GENERAL AGGREGATE \$ 1,000,000.00 PRODUCTS - COMP/OP AGG \$ 1,000,000.00
	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY (6A) <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		(6B)	(6C)		COMBINED SINGLE LIMIT (Ea accident) (6D) \$ 1,000,000.00 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR (7A) <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		(7B)	(7C)		EACH OCCURRENCE (7D) \$ 2,000,000.00 AGGREGATE \$ 2,000,000.00
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY (8A) ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/ MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A	(8B)	(8C)		PER STATUTE OTH-ER (8D) E.L. EACH ACCIDENT \$ 500,000.00 E.L. DISEASE - EA EMPLOYEE \$ 500,000.00 E.L. DISEASE - POLICY LIMIT \$ 500,000.00
(9)						

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

(10) LIST THE OWNER, ARCHITECT AND CONSTRUCTION MANAGER AS ADDITIONAL INSURED

CERTIFICATE HOLDER**CANCELLATION**

(11) INSERT THE OWNER'S NAME HERE

NOTE: PLEASE HAVE YOUR INSURANCE COMPANY MAIL THIS DOCUMENT TO THE CONSTRUCTION MANAGER

(12)
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

(13)

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ACORD 25 (2016/03)

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POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - OWNERS, LESSEES OR
CONTRACTORS - SCHEDULED PERSON OR ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) Of Covered Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

- A. Section II - Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

- B.** With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

- C.** With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance**:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - OWNERS, LESSEES OR
CONTRACTORS - AUTOMATIC STATUS WHEN
REQUIRED IN CONSTRUCTION AGREEMENT WITH YOU**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. Section II - Who Is An Insured is amended to include as an additional insured any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and
2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when your operations for that additional insured are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

- a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

2. "Bodily injury" or "property damage" occurring after:

- a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
- b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as part of the same project.

C. With respect to the insurance afforded to these additional insureds, the following is added to **Section III - Limits Of Insurance**:

The most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement you have entered into with the additional insured; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

POLICY NUMBER:

COMMERCIAL GENERAL LIABILITY

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - OWNERS, LESSEES OR
CONTRACTORS - COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)	Location(s) And Description Of Covered Operations
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the

contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to Section III - Limits Of Insurance:

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Within fifteen (15) days following the date of the issue of the Notice to Proceed (Section 00500), each Contractor shall submit to the Construction Manager for delivery to the Owner, a Schedule of Values showing accurate costs for the elements of their Work.
- B. The Schedule of Values shall be typed or printed on Contractor's letterhead, identify the project and work division, and must be dated and signed.
- C. The Schedule of Values shall divide the Work into a sufficient number of individual cost elements to serve as an accurate basis for Contractor's Application for Payment.
- D. Each work item shall be listed with a breakdown between labor and material, shown as separate cost line items on the schedule of values.

1.02 SPECIAL ITEMS

- A. As a part of the schedule of values the Contractor shall designate specific line items and associated values identified as:
 - 1. Performance Bond and Labor & Material Payment Bond (when required by Owner).
Value: Actual Cost of Bonds
 - 2. Daily housekeeping and clean-up inclusive of any special cleaning and preparation required by the specification for delivering the building for the Owners occupancy.
Value: Two percent (2%) of the total Contract Amount
 - 3. Retainage / Punch List
Value: Ten percent (10%) of the total Contract Amount
- B. A request for payment of any special item amount contained in the Contractor's approved Schedule of Values or a portion thereof may be submitted for payment once the work for that item has been completed to the satisfaction of the Owner, Architect and Construction Manager
- C. Upon the completion of the Contractor's work exclusive of any punch list work, a Contractor may submit a separate Application for Payment requesting the Retention / Punch List line item be reduced to (5%). **This** request must be submitted to the Construction Manager along with a Partial Consent of Surety. Once received, the Construction Manager will forward to the Owner for approval and notify the contractor when fully executed. The Owner shall reserve the right to accept or reject all requests for Retention / Punch List reduction.
- D. The Schedule of Values shall be submitted and approved prior to Contract execution and receipt of any payment.
- E. **Absolutely NO CHANGES may be made to an approved Schedule of Values.**
- F. Increases or decreases in the Contract Amount shall be through change orders.
- G. Each Change Order shall be listed as a new line item on the Contractor Invoicing Form.

END OF SECTION 00670

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Within fifteen (15) days following the date of the issue of the Contract, each Contractor shall submit to the Construction Manager for delivery to the Owner, a list of all subcontractors that they intend to utilize in their performance of the Work, and all suppliers who will be providing materials and/or equipment to be incorporated into the Work.
- B. All SUBCONTRACTORS' names, addresses, telephone numbers, and types of Work shall be included on the list.
- C. All SUPPLIERS' names, addresses, telephone number, and items provided shall be included on the list.
- D. All items of material and equipment include in the Work shall be listed. Each items shall be listed with its manufacturer, supplier, and installing subcontractor, if applicable.
- E. Subcontractor / Supplier / Material / Equipment listings shall be submitted prior to contract execution.
- F. Prior to award of a contract, the Construction Manager will notify the contractor if the Owner has reasonable and substantial objection to any person, organization, material and/or equipment listed by the Contractor. If the Owner has a reasonable and substantial objection, the Contractor shall amend their Proposal by providing an acceptable substitute. The Owner may, at their discretion, accept such a substitute or they may disqualify the Proposal.
- G. **Suppliers, Subcontractors, Material, and Equipment proposed by the Contractor and accepted by the Owner shall be used in the Work for which they are proposed and accepted, and shall not be changed except with prior written approval by the Construction Manager and Owner.**

END OF SECTION 00680

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Within fifteen (15) days following the date of issue of a Contract, each Contractor shall submit to the Construction Manager, for delivery to the Owner, a list of all supervisory employees whom the Contractor proposes to employ to accomplish the Work
- B. This list shall include supervisory employees' names, titles, and duties.
- C. Employee listings shall be submitted prior to contract execution.

1.02 OWNER'S APPROVAL

- A. Contractors are required to establish, to the satisfaction of the Owner, the reliability and responsibility of proposed employees.
- B. Prior to the award of a contract, the Construction Manager will notify the Contractor if the Owner has reasonable and substantial objection to any person listed by the Contractor. If the Owner has reasonable and substantial objection, the Contractor may amend their Proposal by providing an acceptable substitute. The Owner may, at their discretion, accept such a substitute or they may disqualify the Proposal.
- C. Employees proposed by the Contractor and accepted by the Owner shall be employed on the Work for which they are proposed and accepted, and shall not be changed except with written approval of the Owner.

END OF SECTION 00690

PROJECT GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION ON FOLLOWING PAGE(S)

END OF SECTION 00700

AIA[®] Document A232™ – 2019

General Conditions of the Contract for Construction, Construction Manager as Adviser Edition

for the following PROJECT:

(Name, and location or address)

Mount Pleasant Public Schools, 2021 School Bond Construction Program – including erecting additions to, and remodeling, furnishing and refurbishing, and equipping and re-equipping school facilities; acquiring and installing instructional technology and instructional technology equipment for school facilities; erecting storage facilities; and preparing, developing, improving, and equipping athletic fields, athletic facilities, and sites; all in accordance with approved project scopes, applicable laws, the approved plans and specifications, the Owner's fixed budget, and as otherwise approved by the Owner.

THE CONSTRUCTION MANAGER:

(Name, legal status, and address)

Wolgast Corporation
4835 Towne Centre Road, Suite 203
Saginaw, Michigan 48604
Telephone: (989) 790-9120
Facsimile: (989) 790-9063

THE OWNER:

(Name, legal status, and address)

Mount Pleasant Public Schools
720 North Kinney Avenue
Mount Pleasant, Michigan 48858
Telephone: (989) 775-2301
Facsimile: (989) 775-2309

THE ARCHITECT:

(Name, legal status, and address)

Kingscott Associates, Inc.
259 East Michigan Avenue, Suite 308
Kalamazoo, Michigan 49007
Telephone: (269) 381-4880
Facsimile: (269) 381-9110

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

This document is intended to be used in conjunction with AIA Documents A132™–2019, Standard Form of Agreement Between Owner and Contractor, Construction Manager as Adviser Edition; B132™–2019, Standard Form of Agreement Between Owner and Architect, Construction Manager as Adviser Edition; and C132™–2019, Standard Form of Agreement Between Owner and Construction Manager as Adviser.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

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

§ 1.1.2 **The Contract.** The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and the Construction Manager or the Construction Manager's consultants, (3) between the Owner and the Architect or the Architect's consultants, (4) between the Contractor and the Construction Manager or the Construction Manager's consultants, (5) between the Owner and a Subcontractor or Sub-subcontractor (6) between the Construction Manager and the Architect, or (7) between any persons or entities other than the Owner and Contractor. The Construction Manager and Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of their duties.

§ 1.1.3 **The Work.** The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project. The Contractor acknowledges and agrees that the Contract Documents are sufficient to provide for the completion of the Work and that the Contract Documents include work (whether or not shown or described) which reasonably may be inferred to be required or useful for the completion of the Work in accordance with applicable laws, codes, and customary standards of the construction industry.

§ 1.1.4 **The Project.** The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by other Contractors, and by the Owner's own forces and Separate Contractors.

§ 1.1.5 **Contractors.** Contractors are persons or entities, other than the Contractor or Separate Contractors, who perform Work under contracts with the Owner that are administered by the Architect and Construction Manager.

§ 1.1.6 **Separate Contractors.** Separate Contractors are persons or entities who perform construction under separate contracts with the Owner not administered by the Architect and Construction Manager.

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

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

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

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§ 1.1.10 Initial Decision Maker. The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not ~~show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith and~~ without negligence.

§ 1.1.11 Products. The term "Product(s)" as used in the Contract Documents refers to the materials, systems, and equipment provided by the Contractor for use in the Work of the Project.

§ 1.1.12 Warranty. The terms "Warranty" and "Guarantee" as used in the Contract Documents shall have the same meaning and shall be defined as "legally enforceable assurance of satisfactory performance or quality of a product or Work".

§ 1.1.13 Materials. Where materials, systems, and equipment items are referred to in the singular, such reference shall not serve to limit the quantity required. The Contractor shall furnish quantities as required by the Contract Documents to complete the Work. Unless specifically limited in the Contract Documents, the words "furnish", "install", and "provide", or any combination thereof mean to furnish and incorporate into the Work, including all necessary labor, materials, and equipment and other items required to perform the Work indicated.

§ 1.1.14 Project Manual. The Project Manual is a volume assembled for the Work which may include the bidding requirements, sample forms, Conditions of the Contract, and Specifications.

§ 1.2 Correlation and Intent of the Contract Documents

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

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

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade. Where responsibility for particular Work is required of the Contractor, the Contractor shall not be released from that responsibility by reason of the specification or drawing which establishes the responsibility. Thus, the Contractor shall be responsible for all Work required of it, even though that responsibility may be shown only in that portion of the documents typically pertaining to another contractor or trade.

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

§ 1.2.4 If there should be a conflict between two or more of the Contract Documents then the following order of interpretation shall apply:

- .1 Where requirements specifically set forth in the applicable Agreement are in conflict with other Contract Documents, including but not limited to these General Conditions, the Agreement shall govern.
- .2 In all other instances, the conflict shall be resolved by complying with the provision that is most favorable to the Owner (as determined by the Owner in the Owner's sole discretion).
- .3 When a duplicate of material or equipment occurs in the Drawings, the Specifications or other Contract Documents, each Contractor shall be deemed to have bid on the basis of each furnishing such material or equipment. The Owner, with the assistance of the Architect and Construction Manager, will decide which Subcontractor(s) shall furnish the same.

§ 1.3 Capitalization

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

§ 1.4 Interpretation

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

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

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

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

§ 1.6 Notice

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

Wherever the Contract Documents require the Contractor to give "Notice" or "Timely Notice" to the Architect, Public Authority, and/or others, it shall be the Contractor's responsibility to furnish all such notices sufficiently in advance to allow the party receiving the notice reasonable time to react to such notice, including travel time on the job site as necessary, when such notices require the on-site presence of the Architect, Public Authority, their authorized representatives, or others for field observation of inspections, testing or approvals. Reasonable time shall be defined as no less than 24 hours plus normal travel time from the home office of the party being notified to the job site and must also accommodate known, standard, or reasonable processing periods.

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

§ 1.7 Digital Data Use and Transmission

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

~~§ 1.8 Building Information Models Use and Reliance~~

~~Any use of, or reliance on, all or a portion of a building information model without agreement to protocols governing the use of, and reliance on, the information contained in the model and without having those protocols set forth in AIA~~

Document E203™ 2013, Building Information Modeling and Digital Data Exhibit, and the requisite AIA Document G202™ 2013, Project Building Information Modeling Protocol Form, shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

ARTICLE 2 OWNER

§ 2.1 General

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

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

§ 2.2 Evidence of the Owner's Financial Arrangements

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

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

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

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

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, ~~including including, but limited to,~~ those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities. Unless otherwise provided under the Contract Documents, the Owner, assisted by the Construction Manager, shall secure and pay for the building permit.

~~§ 2.3.2 The Owner shall retain an architect~~ Architect is the person lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located, ~~is located, if licensed architecture is required by law for the Project.~~ That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number. The term "Architect," "Architect/Engineer," "Engineer," or "Design Professional" as used herein means the Architect or the Architect's authorized representative.

~~§ 2.3.3 The Owner shall retain a construction manager adviser~~ is lawfully practicing construction management in the jurisdiction where the Project is located. That person or entity is identified as the Construction Manager in the Agreement and is referred to throughout the Contract Documents as if singular in number.

~~§ 2.3.4 If the employment of the Construction Manager or Architect terminates, the Owner shall employ a successor construction manager or architect to whom the Contractor has no reasonable objection and~~ whose status under the Contract Documents shall be that of the Construction Manager or Architect, respectively.

~~§ 2.3.5 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The~~ Taking into account the Contractor's experience and expertise, and exercise of professional caution, the Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work. The Contractor shall not be entitled to additional compensation resulting from its failure to confirm the location of the site utilities or existing structures prior to bid opening.

~~§ 2.3.6 The~~ Upon specific written request of the Contractor, the Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services. Contracts with other Contractors alone shall not constitute sufficient Owner control for purposes of this section.

~~§ 2.3.7 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor~~ Contractor will receive at least one copy of the Contract Documents in pdf format (or another format reasonably approved by the Owner) for purposes of making reproductions pursuant to Section 1.5.2.

~~§ 2.3.8 The Owner shall endeavor to~~ forward all communications to the Contractor through the Construction Manager. Other communication shall be made as set forth in Section 4.2.6.

§ 2.4 Owner's Right to Stop the Work

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

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ~~ten-day~~ three-day period after receipt of notice from the Owner or the Owner's designee (or immediately in the case of a threat to the safety of persons or property) to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, ~~correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to review by the Construction Manager and prior approval of the Architect, and the Construction Manager or Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the~~ including any claim against the Contractor's Performance Bond, correct such default or neglect. In such case, the Owner may deduct from payments then or thereafter due the Contractor the reasonable cost of correcting such deficiencies, including Owner's expenses, including any and all legal expenses incurred to effectuate and enforce this provision and compensation for the Construction Manager's and Architect's and their

respective consultants' additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

If the Architect, Construction Manager, Owner, or other contractors or consultants are required to provide additional services due to defects or deficiencies in the Contractor's work or by failure of the Contractor to perform under its agreement, the Contractor shall be responsible for all such costs and fees (including attorney fees), which shall promptly be paid to the Owner. The Owner, Contractor, Architect, and Construction Manager acknowledge that the Owner's receipt of such payment from the Contractor is a condition precedent to the Owner's obligation to make payment to those adversely affected.

This Section 2.5 allows the Owner to withhold payments from a non-performing Contractor irrespective of the termination procedure identified in Section 14.2, and the Owner may pursue either remedy, or both.

ARTICLE 3 CONTRACTOR

§ 3.1 General

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

§ 3.1.1.1 Possession, sale, or consumption of alcoholic beverages on the construction site is strictly prohibited. The unlawful manufacture, distribution, dispensation, possession or use of drugs is prohibited on the construction site.

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

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

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

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

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.5, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Construction Manager and Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information submitted to the Construction Manager in such form as the Construction Manager and Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

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

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of

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Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.2.5 Prior to submitting its bid, the Contractor shall have studied and compared the Contract Documents and shall have reported to the Architect any error, inconsistency, or omission in the Contract Documents related to its work. It will be presumed that the Contractor's bid and the Contract Sum include the cost of correcting any error, inconsistency, or omission, which could have been discovered by the exercise of reasonable diligence. Unless the Contractor establishes that such error, inconsistency, or omission could not have been discovered by the exercise of reasonable diligence, the Contractor will make such corrections without additional compensation so that the Work is fully functional.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner, the Construction Manager, and the Architect, and shall propose alternative means, methods, techniques, sequences, or ~~procedures, procedures,~~ specifically including any delays that could impact timely coordination and completion of the Work. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. The Construction Manager shall review the proposed alternative for sequencing, constructability, and coordination impacts on the other Contractors. Unless the Architect or the Construction Manager objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures. The Contractor shall immediately notify the Construction Manager of delays of other contractors that could impact timely coordination and completion of the Work.

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

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

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work. Such provision of labor and materials shall occur in sufficient time to satisfy the existing Project schedule. The Contractor bears the risk of any failure to timely provide such labor and materials for any reason. The Contractor agrees to execute the appropriate UCC forms to effectuate the Owner's ownership of the material and equipment furnished pursuant to this Agreement.

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

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

§ 3.4.4 The Contractor, Construction Manager, and Architect each respectively agree that neither they nor their subcontractors will discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to hire, tenure, conditions or privilege of employment, or any matter directly or indirectly related to employment, because of race, age, sex, color, religion, national origin, ancestry or physical disability. Breach of this covenant may be regarded as a material breach of this contract.

§ 3.4.5 Asbestos-Free Product Installation

§ 3.4.5.1 It is hereby understood and agreed that no product and/or material containing asbestos including chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actinolite asbestos and any combination of these materials that have been chemically treated and/or altered shall be installed or introduced into the Work by the contractor or his employees, agents, subcontractors, or other individuals or entities over whom the Contractor has control. If applicable, the Contractor shall be required to provide a signed certification statement ensuring that all products or materials installed or introduced into the work all be asbestos-free.

§ 3.4.5.2 The Contractor shall also be required to furnish certified statements from the manufacturers of supplied materials used during construction verifying their products to be asbestos-free in accordance with the requirements of Section 3.4.5.1.

§ 3.4.5.3 The Contractor shall complete and submit to the Owner a certification evidencing asbestos-free product installation prior to issuance of the final Certificate for Payment, in a form acceptable to the Owner.

§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner, Construction Manager, and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. In addition to any other warranties, guarantees or obligations set forth in the Contract Documents or applicable as a matter of a law and not in limitation of the terms of the Contract Documents, the Contractor warrants and guarantees that:

1. The Owner will have good title to the Work and all materials and equipment incorporated into the Work and, unless otherwise expressly provided in the Contract Documents, will be of good quality and new;
2. The Work and all materials and equipment incorporated into the Work will be free from all defects, including any defects in workmanship or materials;
3. The Work and all equipment incorporated into the Work will be fit for the purpose for which they are intended;
4. The Work and all materials and equipment incorporated into the Work will be merchantable; and
5. The Work and all materials and equipment incorporated into the Work will conform in all respects to the Contract Documents.

If required by the Construction Manager or Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Construction Manager or Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

Upon notice of the breach of any of the foregoing warranties or guarantees or any other warranties or guarantees under the Contract Documents, the Contractor, in addition to any other requirements in the Contract Documents, will commence to correct such breach within seventy-two (72) hours after written notice thereof and thereafter will use its best efforts to correct such breach to the satisfaction of the Owner; provided that if such notice is given after final payment hereunder, such seventy-two (72) hour period shall be extended to seven (7) days. The foregoing warranties and obligations of the Contractor shall survive the final payment and/or termination of the Contract.

The Contractor shall, at the time of final completion of the Work and as a condition precedent to final payment to the Contractor, assign to the Owner all manufacturers' warranties related to the materials and labor used in the Work. The Contractor further agrees to perform the Work in such manner as to preserve any and all such manufacturers' warranties and deliver to the Owner the warranties, project manuals, operating procedures, and other materials related

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to each of the building systems and materials included in the Contractor's Work and as required by the Specifications. § 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

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

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work or portions thereof provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect. The Contractor shall also pay all state and federal taxes levied on its business, income or property and shall make all contributions for social security and other wage or payroll taxes. The Contractor shall be solely responsible for such payments and shall hold the Owner harmless from same.

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

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

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

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

§ 3.7.4 **Concealed or Unknown Conditions.** If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide written and dated notice to the Owner, Construction Manager, and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect and Construction Manager will promptly investigate such conditions and, if ~~the Owner and the Architect~~, in consultation with the Construction Manager, determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, they will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. ~~If the Owner and the Architect~~, in consultation with the Construction Manager, determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner, Construction Manager, and Contractor, stating the reasons. ~~If the Owner or Contractor disputes the Architect's determination or recommendation, either party may the Contractor shall submit a Claim as provided in Article 15.~~ The requirements of Section 2 of 1998 PA 57 (MCL 125.1592), as amended, are hereby incorporated into this document. The Contractor shall be alert to any indication or evidence of existing underground or concealed utilities or structures not shown on the Contract Documents and shall immediately notify the Owner of discovery of such evidence. If the Contractor encounters such utilities or structures, it shall cease operations immediately to minimize damage and shall notify the Owner and Architect. The Contractor shall bear the cost of damage resulting from its failure to exercise reasonable care in its construction activity or from continuing operations without notifying the Owner.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall ~~notify~~ provide written and dated notification to the Owner, Construction Manager, and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do

not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features ~~may be made~~ shall be made, as needed as provided in Article 15.

§ 3.8 Allowances

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

§ 3.8.2 Unless otherwise provided in the Contract Documents:

- .1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- .2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and
- .3 whenever costs are ~~more than or less than~~ allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

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

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor. The superintendent and any other personnel shall be satisfactory to the Owner in all respects, and the Owner shall have the right to require the Contractor to remove any superintendent or any other personnel from the Project whose performance is not satisfactory to the Owner and to replace such superintendent or other personnel with another who is satisfactory to the Owner.

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

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

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information, and the Construction Manager's use in developing the Project schedule, a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. In no event shall the Contractor's Construction Schedule be extended due to action or inaction of the Contractor, except with prior written approval of the Owner within the Owner's sole discretion. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project. The Contractor shall cooperate with the Construction Manager in scheduling and performing the Contractor's Work to avoid conflict with, and as to cause no delay in, the work or activities of other Contractors, or the construction or operations of the Owner's own forces or Separate Contractors.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Owner's, Construction Manager's and Architect's approval. The Architect and Construction Manager's approval which approval shall not be unreasonably delayed or

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withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, ~~and~~ (2) allow the Construction Manager and Architect reasonable time to review ~~submittals~~, ~~submittals~~, and (3) provide for expeditious and practical execution of the Work. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall participate with other Contractors, the Construction Manager, and the Owner in reviewing and coordinating all schedules for incorporation into the Project schedule that is prepared by the Construction Manager. The Contractor shall make revisions to the construction schedule and submittal schedule as deemed necessary by the Construction Manager to conform to the Project schedule.

§ 3.10.4 The Contractor shall perform the Work in ~~general accordance with the most recent schedules submitted to the Owner, Construction Manager, and Architect, and incorporated into the approved Project schedule~~ accordance with the most recent approved project schedule and the most recent work schedule.

§ 3.10.5 The Contractor shall cooperate with the Construction Manager in scheduling and performing its Work to avoid conflict or interference with the Work of others, and the Contractor shall be responsible for any conflict or interferences that it causes. The Construction Manager and the Contractor acknowledge and understand that the work schedule will be modified from time-to-time with the Owner's approval to coordinate with the work of others and that such schedule changes do not give rise to a claim for damages or additional compensation by the Contractor for delay or otherwise. The Contractor shall be required to conform to the most recent Owner-approved schedule and acknowledges that fact was taken into account when it agreed to the Contract Sum and entered into this Contract.

§ 3.10.6 The Contractor shall cooperate with the Construction Manager in working out and following the proper sequence of operations between the Work of the Contractor and that of other trades on the site.

§ 3.10.7 The Contractor shall prosecute the Work undertaken in a prompt and diligent manner whenever the Work (or a part thereof) becomes available, or at such other time as the Owner and/or Construction Manager may direct so as to promote the general progress of the entire construction. The Contractor shall not, by delay or otherwise, interfere with or hinder the Work of the Construction Manager or any other Contractor. Any materials that are to be furnished by the Contractor shall be furnished in sufficient time to enable the Contractor to perform and complete its Work within the time or times provided in the schedule. If the Contractor shall, through its action or inactions, including the actions or inactions of its' subcontractors or suppliers, fall behind in furnishing necessary labor and/or materials to meet the construction needs in accordance with the established schedule, then it shall increase its forces or work such overtime as may be required, at its own expense, to bring its part of the work up to the proper schedule. In the event that the Contractor does not take such action necessary to bring its part of the work up to schedule, as determined by the Construction Manager, then the Owner may supplement the Contractor's forces or take other action permitted under Section 2.4 or Section 2.5. The Contractor shall be responsible for any and all costs of performing or completing the Work and shall pay any such sums within ten (10) days of an invoice. If not paid within ten (10) days, the amount will be withheld from the Contractor's next payment and paid to the relevant parties. If the amounts withheld from payments then or thereafter due Contractor are insufficient to cover such costs, the Owner may bill these costs to the Contractor, and the Contractor shall pay any such sums within ten (10) days of an invoice. Exercise of such rights shall in no way limit or jeopardize the Owner's right to any other remedy, including but not limited to a claim against the Performance Bond of the Contractor.

§ 3.11 Documents and Samples at the Site

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

§ 3.12 Shop Drawings, Product Data, and Samples

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

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor for submittal to and review by the Architect to illustrate materials or equipment for some portion of the Work. All Work shall be furnished and installed in accordance with the Drawings, Specifications and as additionally required by the manufacturer's printed instructions. The Contractor shall review the manufacturer's instructions, and where conflict occurs between the Drawings or Specifications and the manufacturer's instructions, the Contractor shall request clarification from the Architect prior to commencing the Work.

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

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect and Construction Manager is subject to the limitations of Sections 4.2.10 through 4.2.12. Informational submittals upon which the Construction Manager and Architect are not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Construction Manager or Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Construction Manager, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the Project submittal schedule approved by the Construction Manager and Architect or, in the absence of an approved Project submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of other Contractors, Separate Contractors, or the Owner's own forces. The Contractor shall cooperate with the Construction Manager in the coordination of the Contractor's Shop Drawings, Product Data, Samples, and similar submittals with related documents submitted by other Contractors.

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

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been reviewed and approved by the Architect.

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

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

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

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will

specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to reasonably rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. ~~Documents, subject to its experience and expertise.~~ The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. ~~The Owner, the Architect, and the Owner shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals.~~ The Architect and Construction Manager shall be entitled to reasonably rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, ~~provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy, subject to their professional judgment, experience, and expertise.~~ Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Construction Manager shall review submittals for sequencing, constructability, and coordination impacts on other Contractors.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Construction Manager and Architect at the time and in the form specified by the Architect.

§ 3.13 Use of Site

§ 3.13.1 The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, permits, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment. Only materials and equipment which are to be used for the Project or to carry out the Work shall be stored at the Project site(s). Protection of such materials and equipment shall be the sole responsibility of the Contractor.

§ 3.13.2 The Contractor shall coordinate the Contractor's operations with, and secure the approval of, the Construction Manager before using any portion of the site.

§ 3.14 Cutting and Patching

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

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

§ 3.15 Cleaning Up

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

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner, or Construction Manager with the Owner's approval, may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.15.3 Any areas and/or concurrently occupied space both occupied by the Owner and used in the progress of the Work, whether within the limits of the construction site or the adjacent areas leading to it, shall be maintained in a clean and safe condition and open to travel. Failure by the Contractor to maintain said areas will result in the Owner's cleaning of same, at the expense of the Contractor.

§ 3.16 Access to Work

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

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall indemnify and hold harmless the Owner, Construction Manager, and Architect ~~harmless from from any and all cost, damage, and loss on account thereof, including, but not limited to actual attorneys' fees, but~~ shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner, Architect, or Construction Manager. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect through the Construction Manager. The review by the Owner of any method of construction, invention, appliance, process, article, device or materials of any kind shall be for its adequacy as integrated into the Work and shall not be an approval for the use thereof by the Contractor in violation of any patent or other rights of any third person.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Construction Manager, Architect, Construction Manager's and Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or ~~resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent in any way related to performance of the Work, or the duties or obligations of this Agreement or the failure of the Contractor or the Work to conform with the Contract Documents, caused in whole or in part by any acts or omissions of the Contractor, a Subcontractor, or anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder, them or anyone for whose acts of any of them may be liable.~~ The Contractor shall not be obligated to indemnify a party for that party's sole negligence but shall remain liable to the fullest extent of its fault or the fault of a person for whom the Contractor is responsible (e.g., a Subcontractor). The Contractor shall be responsible to the Owner, Construction Manager, Architect, Architect's consultants and agents and employees of any of them from and against all amounts such parties may be required to pay in attorney fees in order to pursue enforcement of this provision against the Contractor or otherwise obtain indemnification from the Contractor provided under the terms of this Section 3.18 or any other applicable Contract Document. Such obligation shall not be construed to negate, abridge, ~~abridge~~ or reduce any other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18, which would otherwise exist as to any party or person set forth in this section. To the fullest extent permitted by law, the Contractor shall indemnify the Owner and save the Owner harmless against all loss by fines, penalties or corrective measures resulting from negligent or wrongful acts or omissions by the Contractor, its Subcontractors, agents, employees or assigns, with respect to the violation of safety requirements of this Contract, including reasonable attorney fees.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts. In addition to and not in limitation of the Contractor's other indemnity obligations, the Contractor hereby accepts and assumes exclusive liability for and shall indemnify and save harmless the Owner, Construction Manager and Architect from and against the payment of the following:

All contributions, taxes, or premiums (including interest and penalties thereon) which may be payable under the unemployment insurance law of any state, the federal Social Security Act, federal, state, county and/or municipal tax withholding laws, or any other law, measured upon the payroll of or required to be withheld from employees by whomsoever employed, engaged in the Work to be performed and furnished under the Contract Documents.

All sales, use, personal property and other taxes (including interest and penalties thereon) required by any federal, state, county, municipal or other law to be paid or collected by the Contractor or any of its Subcontractors or vendors or any other person or persons acting for, through or under it or any of them, by reason of the performance of the Work or the acquisition, ownership, furnishing, or use of any materials, equipment, supplies, labor, services or other items for or in connection with the Work;

All pension, welfare, vacation, annuity and other benefit contributions payable under or in connection with respect to all persons by whomsoever employed, engaged in the Work to be performed and furnished under the Contract Documents.

The Contractor shall indemnify and hold the Owner harmless from any claim, damage, loss or expense, including but not limited to actual attorney fees, incurred by the Owner related to any hazardous material or waste, toxic substance, pollution or contamination brought into the Project site or caused by the Contractor or used, handles, transported, stored, removed, remediated, disturbed or dispersed of by Contractor.

§ 3.18.3 In the event that any claim is made or asserted, or lawsuit filed for damages or injury arising out of or resulting from the performance of the Work, whether or not the Owner is named as a party, the Contractor shall immediately advise the Owner, in writing, of such claim or lawsuit and shall provide a full and complete copy of any documents or pleadings thereto, as well as a full and accurate report of the facts involved.

ARTICLE 4 ARCHITECT AND CONSTRUCTION MANAGER

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement. The term "Architect," "Architect/Engineer," "Engineer," or "Design Professional" as used herein means the Architect or the Architect's authorized representative.

§ 4.1.2 The Construction Manager is the person or entity retained by the Owner pursuant to Section 2.3.3 and identified as such in the Agreement.

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

§ 4.2 Administration of the Contract

§ 4.2.1 The Construction Manager and Architect will provide administration of the Contract as described in the Contract Documents and will be the Owner's representatives during construction until the date the Architect issues the final Certificate for ~~Payment.~~ Payment and with the Owner's written concurrence during the correction period. The Construction Manager and Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or more frequently, as otherwise agreed with the Owner, Owner or as required by law, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. ~~However, Subject to the Owner/Architect Agreement, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. On the basis of the site visits, the Architect will keep the Owner and the Construction Manager reasonably informed about the progress and quality of the portion of the Work completed, will guard the Owner against defects and deficiencies in the work, and promptly report to the Owner and Construction Manager known deviations from the Contract Documents.~~ Documents, the Project schedule and defects and deficiencies observed in the Work.

§ 4.2.3 The Construction Manager shall provide one or more representatives who shall be in attendance at the Project site whenever the Work is being performed. The Construction Manager will determine in general if the Work observed is being performed in accordance with the Contract Documents, will keep the Owner and Architect reasonably informed of the progress of the Work, and will promptly report to the Owner and Architect known deviations from the Contract Documents and the most recent Project schedule, and defects and deficiencies observed in the Work.

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§ 4.2.4 The Construction Manager will schedule and coordinate the activities of the Contractor and other Contractors in accordance with the latest approved Project ~~schedule~~ schedule and shall supervise construction as required by 1937 PA 306 (MCL 388.851 et seq.).

§ 4.2.5 The Construction ~~Manager, Manager and Architect~~, except to the extent required by Section 4.2.4, ~~and Architect 4.2.4 or by 1937 PA 306 and/or 1980 PA 299, as applicable~~, will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the Contractor's safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract ~~Documents, and Documents~~. Except as required by their respective agreements with the Owner, neither will be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. Neither the Construction Manager nor the Architect Documents and neither will have control over or charge of, or be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or of any other persons or entities performing portions of the Work. The Construction Manager will schedule and coordinate the work of all Contractors on the Project, including the Contractors' use of the site. The Construction Manager will keep the Contractors informed of the Project Construction Schedule to enable the Contractors to plan and perform the Work in a timely manner.

§ 4.2.6 Communications. The Owner shall endeavor to communicate with the Contractor and the Construction Manager's consultants through the Construction Manager about matters arising out of or relating to the Contract Documents. The Owner and Construction Manager shall endeavor to include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall endeavor to promptly notify the Architect of the substance of any direct communications between the Owner and the Construction Manager otherwise relating to the Project. Communications by and with the Architect's consultants ~~shall may~~ be through the Architect. Communications by and with Subcontractors and suppliers ~~shall may~~ be through the Contractor. Communications by and with other Contractors shall be through the Construction Manager. Communications by and with the Owner's own forces and Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.7 The Construction Manager and Architect will review and certify all Applications for Payment by the Contractor, in accordance with the provisions of Article 9.

§ 4.2.8 The Architect and Construction Manager have authority to reject Work that does not conform to the Contract Documents, and will notify each other about the rejection. Whenever the Construction Manager considers it necessary or advisable, the Construction Manager will have authority to require inspection or testing of the Work in accordance with Sections 13.4.2 and 13.4.3, upon written authorization of the Owner, whether or not the Work is fabricated, installed or completed. The foregoing authority of the Construction Manager will be subject to the provisions of Sections 4.2.18 through 4.2.20 inclusive, with respect to interpretations and decisions of the Architect. However, neither the Architect's nor the Construction Manager's authority to act under this Section 4.2.8 nor a decision made by either of them in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect or the Construction Manager to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons performing any of the Work.

§ 4.2.9 Utilizing the submittal schedule provided by the Contractor, the Construction Manager shall prepare, and revise as necessary, a Project submittal schedule incorporating information from other Contractors, the Owner, Owner's consultants, Owner's Separate Contractors and vendors, governmental agencies, and participants in the Project under the management of the Construction Manager. The Project submittal schedule and any revisions shall be submitted to the Architect for approval.

§ 4.2.10 The Construction Manager will receive and promptly review for conformance with the submittal requirements of the Contract Documents, all submittals from the Contractor such as Shop Drawings, Product Data, and Samples. Where there are other Contractors, the Construction Manager will also check and coordinate the information contained within each submittal received from the Contractor and other Contractors, and transmit to the Architect those recommended for approval. By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Construction Manager represents to the Owner and Architect that the Construction Manager has reviewed and recommended them for approval. The Construction Manager's actions will be taken in accordance with

the Project submittal schedule approved by the Architect or, in the absence of an approved Project submittal schedule, with reasonable promptness while allowing sufficient time to permit adequate review by the Architect.

§ 4.2.11 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Upon the Architect's completed review, the Architect shall transmit its submittal review to the Construction Manager.

§ 4.2.12 Review of the Contractor's submittals by the Construction Manager and Architect is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Construction Manager and Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Construction Manager and Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component. However, should the Construction Manager or Architect discover during the course of such review any inaccuracies, incompleteness, or other irregularities, they shall immediately notify the Owner of the same to determine an appropriate corrective course of action or notify the Contractor of the same to correct the irregularities.

§ 4.2.13 The Construction Manager will prepare Change Orders and Construction Change Directives.

§ 4.2.14 The Construction Manager and the Architect will take appropriate action on Change Orders or Construction Change Directives in accordance with Article 7, and the Architect will have authority to order minor changes in the Work as provided in Section 7.4. The Architect, in consultation with the Construction Manager, will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.15 ~~Utilizing the documents provided by the Contractor, the~~ The Construction Manager will maintain at the site for the Owner one copy of all Contract Documents, approved Shop Drawings, Product Data, Samples, and similar required submittals, in good order and marked currently to record all changes and selections made during construction. These will be available to the Architect and the Contractor, and will be delivered to the Owner in good condition and reasonably organized upon completion of the Project.

§ 4.2.16 The Construction Manager will assist the Architect in conducting inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion in conjunction with the Architect pursuant to Section 9.8; and receive and forward to the Owner written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10. The Construction Manager will forward to the Architect a final Application and Certificate for Payment or final Project Application and Project Certificate for Payment upon the Contractor's compliance with the requirements of the Contract Documents.

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

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

§ 4.2.19 Interpretations ~~and decisions~~ of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such ~~interpretations and decisions~~, interpretations, the Architect will endeavor to secure faithful performance by ~~both Owner and~~

Contractor, ~~will not show partiality to either, and will not be liable for results of interpretations or decisions so rendered in good faith, faith and without negligence.~~

§ 4.2.20 The Architect's ~~decisions-interpretations~~ on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents. ~~Documents and acceptable to the Owner.~~

§ 4.2.21 The Construction Manager will receive and review requests for information from the Contractor, and forward each request for information to the Architect, with the Construction Manager's recommendation. The Architect will review and respond in writing, through the Construction Manager, to requests for information about the Contract Documents. The Construction Manager's recommendation and the Architect's response to each request will be made in writing within any time limits agreed upon or otherwise with reasonable ~~promptness, promptness given the particular circumstances.~~ If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include other Contractors or Separate Contractors or the subcontractors of other Contractors or Separate Contractors. The term "Subcontractor" shall also include material and equipment suppliers.

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

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

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Construction Manager, for review by the Owner, Construction Manager and Architect, of the persons or entities proposed for each principal portion of the Work, including those who are to furnish supplies, materials or equipment ~~equipment, including those fabricated to a special design.~~ Within 14 days of receipt of the information, the Construction Manager ~~may will~~ notify the Contractor whether the Owner, the Construction Manager or the Architect (1) has reasonable objection to any such proposed person or entity or, (2) requires additional time for review. ~~Failure of the Construction Manager to provide notice within the 14 day period shall constitute notice of no reasonable objection.~~ The Contractor shall remain, in all instances, jointly and severally liable to the Owner for all acts or omissions of its Subcontractor. All contractual agreements with additional persons or entities serving as a subcontractor shall incorporate the Contract Documents, expressly identify the Owner as a third-party beneficiary, give the Owner all rights against the Subcontractor that it would have against the Contractor and state that the Owner shall enjoy all third-party beneficiary rights not prohibited by law.

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

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

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner, Construction Manager or Architect makes reasonable objection to such substitution. The Contractor shall notify the Owner, the Architect, and the Construction Manager of any proposed subcontractor substitution a minimum of 10 days prior to such proposed change.

§ 5.3 Subcontractual Relations

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

§ 5.4 Contingent Assignment of Subcontracts

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

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

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

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

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

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction with Own Forces and to Award Other Contracts

§ 6.1.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation insurance. The Construction Manager and Contractor shall be responsible for coordinating the Work with the work of other Contractors, including the Owner's own forces or Separate Contractors so as to complete the Work in accordance with the Project schedule.

§ 6.1.2 When the Owner performs construction or operations with the Owner's own forces or Separate Contractors, the Owner shall provide for coordination of such forces and Separate Contractors with the Work of the Contractor, who shall cooperate with them.

~~§ 6.1.3 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.~~

§ 6.2 Mutual Responsibility

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

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

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

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction, or to property of the Owner, Construction Manager, Separate Contractors, or other Contractors as provided in Section 10.2.5. Should a claim be made that the Contractor wrongfully delayed or caused damage to the Work or property of another contractor (including the Owner's own forces, other Contractors, or Separate Contractors), the Contractor shall promptly settle the dispute with such other contractor. If such other contractor sues the Owner on account of any delay or damage alleged to have been caused by the Contractor, the Construction Manager will notify the Contractor who shall defend such proceedings at the Contractor's sole expense. If any judgment or award against the Owner arises therefrom, the Contractor shall pay or satisfy it and shall reimburse the Owner for all costs, including attorneys' fees and court costs, which the Owner may have incurred.

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

§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, other Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and ~~the Construction Manager, with notice to the Architect, will allocate the cost among those responsible. The Owner's right to clean up shall in no event be deemed a duty, and should the Owner choose not to pursue this remedy, the Contractor necessitating such action shall remain fully responsible for the same.~~

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

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

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

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

§ 7.2 Change Orders

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

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

§ 7.2.3 The Contractor's agreement on any Change Order shall constitute its final settlement of all matters relating to the direct and indirect costs associated with such change and any and all related adjustments to the Contract Sum and the Contract Time.

§ 7.3 Construction Change Directives

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

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

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

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

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

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

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

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§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Construction Manager of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time. Contractor agreements to a Construction Change Directive shall require a follow-up writing or signature as contemplated in Section 7.3.7.

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

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

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for undisputed Work completed under the Construction Change Directive in Applications for Payment. ~~The~~ For those undisputed portions, the Construction Manager and Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Construction Manager and Architect determine to be reasonably justified. The interim determination of ~~cost~~ cost, if agreed to by the Owner in writing, shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of ~~either party~~ the Contractor to disagree and assert a Claim in accordance with Article 15.

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

§ 7.4 Minor Changes in the Work

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

ARTICLE 8 TIME

§ 8.1 Definitions

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

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

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

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

§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for obtaining all supplies, materials, tools and equipment necessary to perform the Work and for properly performing the Work.

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

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time. All work shall be completed in sufficient time to allow for clean-up and preparation for Owner move-in prior to the date of Substantial Completion.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 ~~If~~ Provided the Contractor submits a written request for an extension not more than fourteen days after the occurrence that gives rise to the delay, if the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner, Architect, Construction Manager, or an employee of any of them, or of the Owner's own forces, Separate Contractors, or other Contractors; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, fire, government-declared emergencies, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution, litigation, mediation, or arbitration, as applicable; or (5) by other causes that the Contractor asserts and the Architect, based on the recommendation of the Construction Manager, determines justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine may be extended by Change Order. Failure of the Contractor to submit a timely request for an extension shall irrevocably waive the Contractor's right to such an extension of time. If the contract time is subject to extension pursuant to this subparagraph, such extension shall be the exclusive remedy of the Contractor and the Contractor shall not be entitled to recover damages from the Owner. Further, minor modifications in Contract time resulting from adjustments in the Project construction schedule shall not be deemed a sufficient cause for an extension of time under this Section.

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

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

§ 8.4 Delay Damage Claims

§ 8.4.1 If the Contractor fails to complete its Work on time resulting in loss or damage to the Owner, the Owner shall be entitled to recover any damages caused by the Contractor's breach, including overhead, profit, extended general conditions, actual attorney fees, etc.

§ 8.4.2 In the event the Contractor is delayed or hindered in the commencement or progress of the Work, including but not limited to those delays caused by the Work or lack of Work of another contractor or subcontractor on the Project, and the Contractor claims monetary damages as a direct and proximate consequences thereof (including, but not limited to, extended general conditions, overhead, profit, overtime, interest, supervisions or other costs or profits whatsoever), then the Contractor shall not assert such claims against the Architect, Construction Manager or Owner and, as to the Architect, Construction Manager and Owner, the Contractor's claims of such delay damages are hereby waived. The Contractor's sole and exclusive remedy regarding claims for monetary delay damages shall be to pursue such claims directly against any contractor(s) and/or subcontractors on the job which may have caused the delay, and with regard to such claims asserted against the Contractor by any other contractor(s) and/or subcontractors, the Contractor hereby waives the defense of absence of contractual privity and hereby assumes liability to other contractor(s) and/or subcontractors arising out of the Contractor's actions or inactions resulting in such delay and claim.

§ 8.4.3 For any delay claims raised against the Owner, the Contractor's sole and exclusive remedy is an extension of time to perform the Work not to exceed the time frame of any proven delay. Under no circumstances is the Contractor entitled to monetary delay damages from the Owner.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

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

§ 9.2 Schedule of Values

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

§ 9.3 Applications for Payment

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

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Construction Manager and Architect, but not yet included in Change Orders. A Contractor's request for payment of sums related to work regarding Construction Change Directive shall, unless qualified in writing at the time of request, constitute full and complete consent to the Construction Change Directive(s) and to the issuance of a Change Order.

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

§ 9.3.1.3 The Contractor shall submit with each monthly Application for Payment (1) an Affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the previous application was submitted and the Owner might in any way be responsible have been paid or otherwise satisfied, and (2) a release or waiver of liens rising out of the Contract from each Contractor and/or Subcontractor, materialman, supplier and laborer or the Contractor addressing all previous Applications for Payment submitted for the Project.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site. Payment to Contractor for materials stored off site is discouraged. When circumstances indicate that the Owner's best interest is served by off-site storage, the Contractor shall make written request to the Owner and Construction Manager for approval to include such material costs in its next progress payment. The Contractor's request shall include the following information:

- .1 A list of the fabricated materials consigned to the Project (which shall be clearly identified, giving the place of storage, together with copies of invoices and reasons why materials cannot be delivered to the site.
- .2 Certification that items have been tagged for delivery to the Project and that they will not be used for another purpose.

- .3 A letter from the Contractor's Surety indicating agreement to the arrangements and that payment to the Contractor shall not relieve either party of their responsibility to complete the Work.
- .4 Evidence of adequate insurance covering the material in storage, which shall name the Owner as additionally insured.
- .5 Costs incurred by the Owner, Construction Manager and Architect to inspect material in off-site storage shall be paid by the Contractor.
- .6 Subsequent pay requests shall itemize the materials and their cost which were approved on previous pay requests and remain in off-site storage.
- .7 When a partial payment is allowed on account of material delivered on the site of the Work or in the vicinity thereof or under possession and control of the Contractor, but not yet incorporated therein, such material shall become the property of the Owner, but if such material is stolen, destroyed or damaged by casualty before being used, the Contractor will be required to replace it at its own expense.

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

§ 9.4 Certificates for Payment

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

§ 9.4.2 Where there is more than one Contractor performing portions of the Project, the Construction Manager will, within seven days after the Construction Manager receives all of the Contractors' Applications for Payment: (1) review the Applications and certify the amount the Construction Manager determines is due each of the Contractors; (2) prepare a Summary of Contractors' Applications for Payment by combining information from each Contractor's application with information from similar applications for progress payments from the other Contractors; (3) prepare a Project Application and Certificate for Payment; (4) certify the amount the Construction Manager determines is due all Contractors; and (5) forward the Summary of Contractors' Applications for Payment and Project Application and Certificate for Payment to the Architect.

§ 9.4.2.1 Within seven days after the Architect receives the Project Application and Project Certificate for Payment and the Summary of Contractors' Applications for Payment from the Construction Manager, the Architect will either (1) issue to the Owner a Project Certificate for Payment, with a copy to the Construction Manager; or (2) issue to the Owner a Project Certificate for Payment for such amount as the Architect determines is properly due, and notify the Construction Manager and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Project Application for Payment, and notify the Construction Manager and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1. The Construction Manager will promptly forward the Architect's notice of withholding certification to the Contractors. As between the Owner and the Contractor, the failure of the Architect or Construction Manager to notify the Contractor or the Owner of a withheld certification does not render such withholding ineffective, and the Owner shall have no obligation to pay a Contractor for uncertified amounts or amounts for which no Certificate for Payment has been issued. If the Contractor does not receive notice of a withheld certification, it shall proceed as provided in Section 9.7.

§ 9.4.3 The Construction Manager's certification of an Application for Payment or, in the case of more than one Contractor, a Project Application and Certificate for Payment, shall be based upon the Construction Manager's

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evaluation of the Work and the data in the Application or Applications for Payment. The Construction Manager's certification will constitute a representation that, to the best of the Construction Manager's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is, or Contractors are, entitled to payment in the amount certified.

§ 9.4.4 The Architect's issuance of a Certificate for Payment or, in the case of more than one Contractor, Project Application and Certificate for Payment, shall be based upon the Architect's evaluation of the Work, the recommendation of the Construction Manager, and data in the Application for Payment or Project Application for Payment. The Architect's certification will constitute a representation that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is, or Contractors are, entitled to payment in the amount certified.

§ 9.4.5 The representations made pursuant to Sections 9.4.3 and 9.4.4 are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Construction Manager or ~~Architect~~ Architect, in writing, together with the Certification which the qualification pertains.

§ 9.4.6 The issuance of a Certificate for Payment or a Project Certificate for Payment will not be a representation that the Construction Manager or Architect ~~has has, unless otherwise required by contract or law,~~ (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Construction Manager or Architect may withhold a Certificate for Payment or Project Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Construction Manager's or Architect's opinion the representations to the Owner required by Section 9.4.3 and 9.4.4 cannot be made. If the Construction Manager or Architect is unable to certify payment in the amount of the Application, the Construction Manager will notify the Contractor and Owner as provided in Section 9.4.1 and 9.4.2. If the Contractor, Construction Manager and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment or a Project Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Construction Manager or Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment or Project Certificate for Payment previously issued, to such extent as may be necessary in the Construction Manager's or Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from the acts and omissions described in Section 3.3.2 because of

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

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

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

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§ 9.5.4 If the Architect or Construction Manager withholds certification for payment under Section 9.5.1, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Construction Manager, and both will reflect such payment on the next Certificate for Payment.

§ 9.5.5 If the Contractor disputes any determination by the Owner, Architect, or Construction Manager with regard to any Certificate for Payment, the Contractor shall nevertheless continue to expeditiously perform the Work and such dispute shall provide no basis for any manner of suspension of the Contractor's performance of the Work.

§ 9.6 Progress Payments

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

§ 9.6.1.1 The Owner may, in its sole discretion, choose to make payments to Contractors through the Construction Manager. More particularly, the Owner may distribute funds to the Construction Manager for the Construction Manager to then provide payment to each respective and applicable Contractor. The Owner may discontinue this practice at any time in its sole discretion.

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

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

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner, Construction Manager nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4. Owner may, in its sole discretion, after providing Contractor with ten (10) days prior written notice, make direct payments to the Contractor's Subcontractors, material men, laborers or claimants relating to labor or material provided to the Contractor in the event the Subcontractors, material men, laborers or claimants threaten to or actually cease providing labor and/or materials for the Project due to nonpayment such that, in the Owner's determination, progress of the Project and the Project's schedule are jeopardized. All payments made pursuant to this section shall be considered the same as if paid directly to the Contractor and shall constitute partial payment of the Contract Sum. In the event the Contractor disagrees with the amount proposed to be paid to one or more Subcontractors, material men, laborers or claimants, the Contractor shall provide a bond in the amount the Contractor believes the Owner will overpay, within ten (10) days of receipt of notice, or be barred from making any claim that the amount of the direct payment was incorrect. Payment under this provision shall not jeopardize any other remedy available to the Owner.

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

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require

money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

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

§ 9.6.9 Subject to applicable law, if a petition in bankruptcy or any other arrangement or proceeding regarding insolvency, assignment for the benefit of creditors, trust, chattel mortgage, or similar state or federal proceeding, whether voluntary or involuntary, shall be filed with respect to the Contractor, the Owner may withhold the final balance, or any other payments, whether or not an application for progress payment has been properly filed, until expiration of the period of any guarantees or warranties required for the Contractor, and the Owner may pay out such funds the amount necessary to satisfy any claims or costs that otherwise would have been covered by such guarantees or warranties.

§ 9.7 Failure of Payment

If the Construction Manager and Architect do not issue a Certificate for Payment or a Project Certificate for Payment, through no fault of the Contractor, Contractor and without justifiable basis under the Contract Documents, within fourteen days after the Construction Manager's receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Construction Manager and Architect or awarded by binding dispute resolution, then the Contractor may, upon seven unless the Owner, in good faith, disputes the amount certified, then the Contractor may, upon twenty-one additional days' notice to the Owner, Construction Manager and Architect, stop the Work until payment of the amount owing has been received. (1) the Contractor receives payment of the amount owing, or (2) the Contractor receives notice from the Architect, Construction Manager, or Owner of a full or partial withheld certification as provided herein. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents. The Owner shall have no obligation to pay the Contractor unless it receives a Certificate for Payment for the amount certified. The Owner may withhold payment from a non-performing Contractor irrespective of the issuance of a Certificate for Payment.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents and when all required occupancy permits, if any, have been issued, so the Owner can occupy or utilize the Work for its intended use.

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

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

§ 9.8.4 When the Architect, assisted by the Construction Manager, determines that the Work of all of the Contractors, or designated portion thereof, is substantially complete, the Construction Manager will prepare, and the Construction Manager and Architect shall execute, a Certificate of Substantial Completion that shall establish the date of

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

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

§ 9.8.6 Notwithstanding Sections 9.8.1 and 9.8.2, as a condition precedent to establishing the date of Substantial Completion, the Contractor shall prepare and submit to the Architect and Construction Manager a comprehensive list of items to be completed or corrected (a "punch list"). The Contractor shall respond immediately to correct Work deficiencies and/or punch list items. Should the Contractor fail to make corrections in a timely fashion, but not later than thirty (30) calendar days from the date of Substantial Completion or notification of the required corrections, whichever is earlier, such Work may be corrected by the Owner at the Contractor's sole expense, and the Contract Sum may be adjusted accordingly.

§ 9.9 Partial Occupancy or Use

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

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

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

§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon completion of the Work, the Contractor shall forward to the Construction Manager a notice that the Work is ready for final inspection and acceptance, and shall also forward to the Construction Manager a final Contractor's Application for Payment. Upon receipt, the Construction Manager shall perform an inspection to confirm the completion of Work of the Contractor. The Construction Manager shall make recommendations to the Architect when the Work of all of the Contractors is ready for final inspection, and shall then forward the Contractors' notices and Application for Payment or Project Application for Payment, to the Architect, who will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Construction Manager and Architect will promptly issue a final Certificate for Payment or Project Certificate for Payment stating that to the best of their knowledge, information and belief, and on the basis of their on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Construction Manager's and Architect's final Certificate for Payment or Project Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect through the Construction Manager (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final ~~payment~~ (5) ~~payment~~, (5) an affidavit that states the Work is fully completed and performed in accordance with the Contract Documents and is satisfactory to the Architect and the Owner, (6) in the event of Contractor bankruptcy, at the Owner's option, an order entered by the court having jurisdiction of the Contractor's insolvency proceeding authorizing such payment, (7) a general release executed by the Contractor on a form provided by the Construction Manager, (8) all close-out documents and warranties have been provided in a reasonable and acceptable manner, (9) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6)-(10), if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable-actual attorneys' fees.

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

§ 9.10.4 The making of final payment shall ~~constitute a waiver of Claims by the Owner except these arising from~~
~~1 — liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;~~
~~2 — failure of the Work to comply with the requirements of the Contract Documents;~~
~~3 — terms of special warranties required by the Contract Documents; or~~
~~4 — audits performed by the Owner, if permitted by the Contract Documents, after final payment not constitute a~~
waiver of any Claims by the Owner.

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

§ 9.10.6 All architectural costs incurred after the specified Final Completion date resulting from the Contractor's failure to complete the Work as agreed shall be paid by the Contractor to the Owner prior to the authorization of final payment. Charges to the Contractor shall be made at such times and in such amounts as the Architect invoices the Owner under the current rate schedule in effect at the time of service, for services provided in connection with the Work. The architectural costs incurred after the final completion date will be deducted from the Contractor's progress payment or final payment as applicable.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall submit the Contractor's safety program to the Construction Manager for review and coordination with the safety programs of other Contractors. The Construction Manager's responsibilities for review and coordination of safety programs shall not extend to direct control over or charge of the acts or omissions of the Contractors, Subcontractors, agents or employees of the Contractors or

Subcontractors, or any other persons performing portions of the Work and not directly employed by the Construction Manager.

§ 10.2 Safety of Persons and Property

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

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

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss. The Contractor shall take all reasonable safety precautions with respect to its Work and the work of others, shall comply with all standard industry safety measures and shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority and all other requirements of the Contract Documents, including those applicable to the safety of persons or property. The Contractor shall be responsible for the safety of all of the Contractor's employees and the safety of all of the Contractor's Subcontractors, suppliers, and their employees. The Contractor shall report in writing to the Construction Manager any injury to any of Contractor's or its Subcontractors' employees at the site within one (1) day after the occurrence of such injury. The Contractor acknowledges receiving, or having access to an opportunity to review, health and safety information about the Project site(s), including any applicable asbestos management plan and any other environmental information it deems necessary to perform the work.

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

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel. The Contractor shall be solely and fully responsible for any and all damage claims and for defense of all actions against the Owner relating to such explosives, hazardous materials and/or unusual methods.

§ 10.2.5 The Contractor shall promptly remedy damage and loss ~~(other than damage or loss insured under property insurance required by the Contract Documents)~~ to property referred to in Sections 10.2.1.2, 10.2.1.3 and 10.2.1.4 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2, 10.2.1.3 and 10.2.1.4. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner, Construction Manager or Architect or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

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

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

§ 10.2.8 Injury or Damage to Person or Property

~~If either party the Contractor suffers injury or damage to person or property because of an act or omission of the other party, the Owner, or of others for whose acts such party the Owner is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party Owner within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter. Owner to investigate the matter. The Contractor's failure to do so shall be an irrevocable waiver of any claim against the Owner arising out of such injury or damage. Injury or damage to persons or property suffered by the Owner because of an act or omission of the Contractor or others for whose acts the Contractor is legally responsible shall be subject to the limitations provisions established by Michigan law.~~

§ 10.2.8.1 The Contractor causing damage to the Work of another Contractor shall be responsible for the repair and replacement of such damaged Work. Back charges may be made against the Contract sum of the damaging Contractor when corrections are not made promptly.

§ 10.2.8.2 The Owner reserves the right to pay the Contractor suffering damage from monies due the Contractor who is responsible for the Work required by same and shall deduct it from the Contract amount due the said responsible Contractor.

§ 10.2.9 If the Contractor or any Subcontractor chooses to use any systems, equipment, facilities, or services which have been incorporated in the Project as a permanent part thereof by any other, the Contractor shall assume full responsibility for damages caused to said systems, equipment, facilities or services, and have damages repaired as required, so that in no case will the performance of the used systems, equipment, facilities or services be diminished from the specified criteria as a result of such use.

§ 10.2.10 The Contractor acknowledges that the safety of the Owner's students, employees and guests is of the utmost importance. The Contractor will take no action which would jeopardize the safety of the Owner's students, employees and guests and, without the Owner's written approval, shall take no action which would interfere with the Owner's activities. Without limiting the foregoing provisions, the Contractor shall comply with all laws applicable to students and/or school safety.

§ 10.3 Hazardous Materials

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

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

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Construction Manager, Architect, their consultants, and agents and employees of any of them from

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and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances site. To the extent the Contract requires the removal, transport and disposal of hazardous materials, the Contractor agrees that it assumes responsibility for said tasks as a part of the Agreement.

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

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

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's reasonable discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7. Nothing in this section will be construed as relieving Contractor from the cost and responsibilities for emergencies covered hereby.

§ 10.5 Notification of Utility Companies

§ 10.5.1 At least five (5) working days prior to the start of work in areas which may involve existing utility lines, the Contractor shall notify the MISS DIG notification system of the planned work.

§ 10.5.2 The utility company should, upon receipt of notice, stake, mark or otherwise designate the location (and depth) of their lines, or temporarily move the line(s).

§ 10.5.3 The Contractor shall immediately report to the respective utility company any break or leak in its lines, or any dent, gouge, groove or other damage to the utility line or to its coating or cathodic protection made or discovered in the course of the Work.

§ 10.5.4 The Contractor shall immediately alert the Owner, Construction Manager, Architect and occupants of nearby premises of any and all emergencies caused or discovered in the utility lines(s) in the course of the Work.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. Agreement, as described elsewhere in the Contract Documents, as required by law, or as reasonably required by the Owner in light of the nature of services performed and insurance obligations of its other contractors and consultants. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Construction Manager and Construction Manager's consultants, and the Architect and Architect's consultants, Owner shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents. On all insurance contracts under which the Contractor is obligated to have its insurance company name the Owner as additional insured, the Contractor shall require such insurance company to add to the policy the following clause: "The insurance afforded to the Additional Insured is primary

insurance. If the Additional Insureds have other insurance which is applicable to the loss on an excess or contingent basis, the amount of the insurance company's liability under this policy shall not be reduced by the existence of such other insurance." Certificates of insurance acceptable to the Owner shall be submitted by Contractor to the Owner and Construction Manager prior to commencement of Work and thereafter upon renewal or replacement of each required policy of insurance.

§ 11.1.2 The Contractor shall provide bonds covering faithful performance of 100% of the Contract and payment of 100% of the obligations arising thereunder as stipulated in bidding requirements or specifically required by the Contract Documents or by law on the date of the Contract. The Contractor shall provide such additional surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located and that are reasonably acceptable to the Owner. The Construction Manager shall obtain copies of the Performance Bond and Payment Bond required by the Agreement from the Contractor prior to Contractor beginning performance pursuant to the Agreement. The Contractor's obligation to provide such bonds shall not be waived in any fashion, including any failure to secure such bonds prior to Contractor beginning performance pursuant to the Agreement.

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

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

§ 11.2 Owner's Insurance

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

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

§ 11.2.2.1 The Contractor shall at the Contractor's own expense provide insurance coverage for materials stored off the site after written approval of the Owner at the value established in the approval, and also for portions of the Work in transit until such materials are permanently attached to the Work.

§ 11.2.2.2 The insurance required by Section 11.2 is not intended to cover machinery, tools or equipment owned or rented by the Contractor that are utilized in the performance of the Work, but not incorporated into permanent improvements. The Contractor shall, at the Contractor's own expense, provide insurance for owned or rented machinery, tools or equipment.

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

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Construction Manager and Construction Manager's consultants; (3) the Architect and Architect's consultants; (4) other Contractors and any of their subcontractors, sub-subcontractors, agents, and employees; and (5) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent these losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Construction Manager, Construction Manager's consultants, Architect, Architect's consultants, other Contractors, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this Section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property. is not waiving any rights its insurer(s) may have to subrogation. To the extent any terms in the General Conditions or any other Contract Documents are contrary to the aforementioned, such terms shall be deemed void and unenforceable.

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

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

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

§ 11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Construction Manager, Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Construction Manager, Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner insureds. The Owner shall use its best efforts, with consultation of the Construction Manager, to reach a quick and fair settlement for all interested parties, with the insurance companies after a loss.

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

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

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

§ 12.1.2 If a portion of the Work has been covered that the Construction Manager or Architect has not specifically requested to examine prior to its being covered, the Construction Manager or Architect may request request, with the Owner's consent, to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to Owner shall reasonably adjust the Contract Sum and Contract Time as may be appropriate, appropriate. At the time, Owner's consent is sought as described herein, the Architect and/or Construction Manager shall notify the Owner that additional costs may apply if the Work is in accordance with the Contract Documents. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Construction Manager or Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion, and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Construction Manager's and Architect's services and expenses made necessary thereby, shall be at the Contractor's expense. If any portion of the Work is determined by the Owner, Construction Manager or Architect, either during performance of the Work or during any applicable warranty period, to be defective or not in compliance with the contract requirements, the Construction Manager or Owner shall notify the Contractor in writing that such Work is rejected. Thereupon, the Contractor shall immediately replace and/or correct such Work by making the same comply strictly with all the requirements therefor. The Contractor shall bear all costs of correcting such rejected Work, including work of other Subcontractors and including compensation for the Architect's and Construction Manager's additional services and any delay or related damage to the Owner made necessary thereby. The Construction Manager shall have the right to charge the Contractor for any compensation payable for the Architect's or Construction Manager's additional services required by the Contractor's rejected Work and deduct the payment from the next payment due the Contractor.

§ 12.2.2 After Substantial Completion

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

nonconforming Work within a reasonable time during that period after receipt of notice from the Owner, Construction Manager or Architect, the Owner may correct it in accordance with Section 2.5.

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

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

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

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

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

§ 12.2.6 The Contractor shall respond immediately to correct Work deficiencies and/or punch list items. Failure to correct Work deficiencies and/or punch list items in a timely fashion shall be a substantial breach, and the Owner may terminate the Contract immediately without following the procedure identified in Section 14.2. As used in this Section 12.2.6, "timely" means the Contractor shall begin correction within three days of receiving the punch list or notice of work deficiency, and correction will be completed in a commercially reasonable time in accordance with the direction of the Construction Manager. Whether or not the Contract is terminated, if the Contractor fails to make corrections in a timely fashion, such Work may be corrected by the Owner, in its sole discretion, at the Contractor's expense and the Contract Sum may be adjusted by backcharge accordingly. The Contractor shall promptly notify the Construction Manager, in writing, when the Work deficiencies and/or punch list items are completed. Upon the review of the Work by the Construction Manager after such notification by the Contractor, if Work deficiencies and/or punch list items shall continue to exist, the Contractor shall reimburse any cost incurred by the Owner, including the Construction Manager's and Architect's fees for reinspections of the Work. Failure to pay such costs within ten (10) days of receipt of a demand regarding the same shall permit the Owner to withhold such amounts from the unpaid portion of the Contractor's contract.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made. The acceptance of nonconforming Work by the Owner shall be by written Change Order, specifically referencing that it addresses nonconforming work, acceptable to the Owner's authorized representative, and signed by all parties. Acceptance of nonconforming Work may only occur pursuant to such written Change Order.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4. State of Michigan in all respects, except that claims and causes of action brought by the Owner shall not be deemed untimely if filed within six (6) years of substantial completion of the entire (and all) Project(s).

§ 13.2 Successors and Assigns

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

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

§ 13.3 Rights and Remedies

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

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

§ 13.4 Tests and Inspections

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

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

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

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

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

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

§ 13.5 Interest

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

§ 13.6 The Contractor agrees that time is of the essence and to start work when directed by the Construction Manager and to furnish sufficient materials and a sufficient number of properly skilled workers, so as not to delay the work of any other Contractor or completion of the Project.

§ 13.7 Notwithstanding any provisions within the Contract Documents, nothing shall be deemed a waiver of any immunity granted to Owner by law or statute, including but not necessarily limited to, governmental immunity under MCL 691.1407.

§ 13.8 The Owner, being a governmental unit, is protected by the Michigan Void Construction Contracts Act, MCL 691.991.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

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

- .1 Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- .2 ~~An act of government, such as a declaration of national emergency, that requires all Work to be stopped;~~
- .3 ~~Because the Construction Manager has not certified or the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents, subject to justifiable withholding of payment as described herein or in the Contract Documents; or~~
- .4 The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

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

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

§ 14.1.4 If the Work is stopped for a period of 60 consecutive ~~days~~ days, for reasons within the Owner's control and through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees, or any other persons performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner, Construction Manager and Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3. The Contractor may not terminate the Contract unless it has submitted claims for the delays and sought an extension of time for each delay.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- .1 ~~repeatedly~~ refuses or fails to supply enough properly skilled workers or proper materials; materials to the point of negatively impacting the Project and/or the related schedule;

- .2 fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- .3 ~~repeatedly~~ disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents; or
- .5 fails to prosecute the Work or any part thereof with promptness and diligence or fails to perform any provisions of this Contract, or goes into bankruptcy, liquidation, makes an assignment for the benefit of creditors, enters into a composition with its creditors, or becomes insolvent.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, after consultation with the Construction Manager, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, ~~seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:~~ three days' notice, terminate the Contractor's right to proceed with the Work, or such part of the Work as to which such defaults have occurred, and may take any one or more of the following actions:

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

The notice required by this Section 14.2.2 shall not give the Contractor a right to cure defective Work or to cure other grounds for termination under Section 14.2.1. Further, the Owner's failure to strictly comply with the formal requirements of termination (e.g., by providing less than three days' notice of termination) shall not be a substantial breach by the Owner. The Owner may terminate the Contractor immediately if a Contractor endangers persons or property or has breached Project safety requirements).

In the event, the Contractor's surety bond requires notice of intent to declare a default of the Contractor and if such bond notice is provided by the Owner, such notice shall be adequate to satisfy the three (3) day written notice described above in this section.

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

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

§ 14.3 Suspension by the Owner for Convenience

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

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

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

§ 14.4 Termination by the Owner for Convenience

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

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

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

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition. A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the ~~Contract.~~ Contract, including but not limited to additional sums, additional time for performance, or damages for delay. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents. The Contractor shall not knowingly (as "knowingly" is defined in the Federal False Claims Act, 31 USC 3729, et seq.) present or cause to be presented a false or fraudulent Claim. As a condition precedent to making a Claim by the Contractor, the Claim shall be accompanied by an affidavit sworn to before a notary public or other person authorized to administer oaths in the State of Michigan and executed by an authorized representative of the Contractor, which states that: "The Claim which is submitted herewith complies with subparagraph 15.1.1 of the General Conditions, as amended, which provides that the Contractor shall not knowingly present or cause to be presented a false or fraudulent claim." Claims of the Owner shall be governed by the relevant Michigan statutory limitations period.

§ 15.1.2.1 Regardless of any provisions to the contrary, the statute of limitations with respect to any defective or nonconforming Work which is not discovered by the Owner shall not commence until the discovery of such defective or nonconforming Work by the Owner. See also Section 13.1.

§ 15.1.2 Time Limits on Claims

~~The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2, in accordance with Section 13.1 and Section 15.1.21.1, regardless of any other time frames identified in this Agreement. The Contractor shall commence all claims and causes of action in accordance with Section 15.1 and, if shorter, any other provisions of this Agreement and Michigan law.~~

§ 15.1.2.1 Regardless of any provisions to the contrary, the statute of limitations with respect to any defective or nonconforming Work which is not discovered by the Owner shall not commence until the discovery of such defective or nonconforming Work by the Owner. See also Section 13.1.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 ~~Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by written notice to the other party.~~ Owner and to the Initial Decision Maker with a copy sent to the Construction Manager and Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party. ~~the Contractor under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant Contractor first recognizes the condition giving rise to the Claim, whichever is later. Failure to timely and properly initiate a claim shall be an irrevocable waiver of such claim. Claims by the Owner shall be governed by the applicable statute of limitations period, except as such time frame may be longer in accordance with Section 13.1 and Section 15.1.2.1.~~

§ 15.1.3.2 Claims by ~~either the Owner or Contractor~~, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by written notice to the other party. In such event, no decision by the Initial Decision Maker is required. Claims by the Contractor under this Section 15.1.3.2 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the Contractor first recognizes the condition giving rise to the Claim, whichever is later. Failure to timely and properly initiate a claim shall be an irrevocable waiver of such claim. Claims by the Owner shall be governed by the applicable statute of limitations period, except as such time frame may be longer in accordance with Section 13.1 and Section 15.1.2.1.

§ 15.1.4 Continuing Contract Performance

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

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

§ 15.1.5 Claims for Additional Cost. If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Failure to provide such notice shall serve as an absolute bar against a claim for such an increase in the Contract Sum. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4. A Project delay shall not be a basis for a Claim for additional cost. Delay claims against the Owner may be remedied only through an extension of time per Section 8.4.2 and Section 8.4.3.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, additional notice as provided in Section 15.1.3 shall be ~~given~~ given in addition to the general requirements for filing a claim. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of ~~the Work~~ the Work due to the increase in Contract Time sought. In the case of a continuing delay only one Claim is necessary.

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

§ 15.1.7 Waiver of Claims for Consequential Damages. The Contractor and Owner ~~waive Claims against each other~~ waives Claims against the Owner for consequential damages arising out of or relating to this Contract. This ~~mutual~~ waiver includes

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

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

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial ~~decision~~ interpretation. The Architect will serve as the Initial Decision Maker, ~~unless otherwise indicated in the Agreement~~ Maker. Except for those Claims excluded by this Section 15.2.1,

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an initial ~~decision-interpretation~~ shall be required as a condition precedent to mediation of any Claim. If an initial ~~decision or litigation of any Claim brought by the Contractor against the Owner. If an initial interpretation has not been~~ rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a ~~decision-an interpretation~~ having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not ~~decide-interpret~~ disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to ~~resolve the Claim.~~ interpret the Claim. Within ten (10) days of a written request, the Contractor shall make available to the Owner or its representative all of its books, records, or other documents in its possession or to which it has access relating to a Claim and shall require its subcontractors, regardless of tier, and materialmen to do the same.

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

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

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

§ 15.2.6 ~~Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1. Regardless of any other time frames identified herein, claims and causes of action brought by the Owner shall be governed in accordance with the statute of limitations periods under Michigan law, except for such longer periods of time as may be permitted in Section 13.1 and Section 15.1.2.1.~~

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

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

NOTICE AND PRIOR APPROVAL

Except where otherwise expressly required by the terms of the Agreement, the Contract Documents or the General Conditions, exercise by the Owner of any contractual or legal right or remedy without prior notice to or approval by the Contractor's surety shall in no way bar or prohibit the Owner's ability to pursue such right or remedy. Further, pursuit of such a right or remedy without prior notice to or approval of surety shall in no way compromise, limit or bar any claim by the Owner against a surety bond of the Contractor. The Owner's claims against a Contractor's surety bond shall be governed by Section 13.1 with respect to any limitations periods.

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

§ 15.3 Mediation

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

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

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

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

§ 15.4 Arbitration

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

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

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

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

§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 ~~Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration.~~ The Owner, at its sole discretion, may consolidate mediation conducted under this

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Agreement with any other ~~arbitration-mediation~~ to which it is a party provided that (1) the ~~arbitration-mediation~~ agreement governing the other ~~arbitration-mediation~~ permits consolidation, (2) the ~~arbitration-mediations~~ to be consolidated substantially involve common questions of law or fact, and (3) the ~~arbitration-mediations~~ employ materially similar procedural rules and methods for selecting ~~arbitrator(s)-mediator(s)~~.

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

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement. Contractor further agrees to include similar dispute resolution provisions in all agreements with the independent contractors and consultants retained for the Project and to require all independent contractors and consultants also to include similar dispute resolution provisions in all agreements with subcontractors, all subconsultants, suppliers or fabricators so retained, thereby providing for a consistent method of dispute resolution between the parties to those agreements. Subject to the other limitations periods identified in these General Conditions which are understood to govern over this sentence, no demand for mediation shall be made after the date when the applicable statutes of limitations would bar legal or equitable proceedings. During the pendency of any mediation, all applicable limitations periods shall be tolled until the conclusion of that process.

The Owner reserves the right in its discretion to require consolidation or joinder of any mediation arising out of or relating to this Agreement with another mediation involving a person or entity not a party to this Agreement in any event the Owner believes such consolidation or joinder is necessary in order to resolve a dispute or avoid duplication of time, expense or effort. In the event the Owner is involved in a dispute which is not subject to mediation involving a person or entity not a party to this Agreement, the mediation provisions applicable to the parties shall be deemed to be void and nonexistent in the event Owner, in its discretion, determines the Contractor should become a party to that dispute by joinder or otherwise. Any mediation hearing shall be held in the general location where the Project is located unless another location is mutually agreed upon.

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Addenda are written or graphic instruments issued prior to execution of construction contracts which add to, delete from, clarify, or correct the Bidding Documents and/or the Contract Documents.
- B. Addenda may be included in the Bidding Documents and may be included in the Contract Documents.
- C. Addenda may be issued by either the Architect or the Construction Manager as deemed necessary to facilitate the building and construction of the Project.

1.01 BIDDERS' AND CONTRACTORS' RESPONSIBILITIES

- A. Each Bidder shall be responsible for taking the provisions of all Addenda issued prior to the Bid Date into account during the presentation of his Proposal.
- B. Each Bidder shall be responsible for obtaining all Addenda, and for ascertaining that all Addenda issued prior to the Bid Date have been considered in preparing his Proposal.
- C. Each Contractor shall perform his work in accordance with all Addendums issued.

END OF SECTION 00900

MILESTONE SCHEDULE ON FOLLOWING PAGE(S)

END OF SECTION 00999



Mt. Pleasant Public Schools 2021 Bond Projects - Bid Pack 5 High School Gym Wall Repairs - Summer 2025 Milestone Schedule

ID	Task Name	Duration	Start	Finish	Apr	2nd Quarter May	Jun	Jul	3rd Quarter Aug
1	Pre-Construction Period	58 days	Thu 4/17/25	Mon 7/7/25					
2	Bid Period	21 days	Thu 4/17/25	Thu 5/15/25					
3	Pre-Bid Meeting	1 day	Thu 4/24/25	Thu 4/24/25					
4	Bid Date	1 day	Fri 5/9/25	Fri 5/9/25					
5	Post-bid Interviews	0 days	Mon 5/12/25	Mon 5/12/25					
6	Award Recommendation	2 days	Tue 5/13/25	Wed 5/14/25					
7	Owner Approval of Contracts	1 day	Mon 5/19/25	Mon 5/19/25					
8	Notify Contractors	2 days	Tue 5/20/25	Wed 5/21/25					
9	Issue Contracts	7 days	Fri 5/23/25	Mon 6/2/25					
10	Submittals/Order Materials	25 days	Tue 6/3/25	Mon 7/7/25					
11									
12	FSE Renovations (Summer 2025)	37 days	Mon 7/7/25	Tue 8/26/25					
13	Mobilization	2 days	Mon 7/7/25	Tue 7/8/25					
14	Demo of Gym Floor Base & Install Floor Protection & Temp Wall	2 days	Wed 7/9/25	Thu 7/10/25					
15	Demo of All Mechanical & Electrical	2 days	Fri 7/11/25	Mon 7/14/25					
16	Demo and Temp Protection of Existing Door 908	1 day	Tue 7/15/25	Tue 7/15/25					
17	Demo and Reconstruction of Gym Wall (Masonry)	20 days	Wed 7/16/25	Tue 8/12/25					
18	Block Fill & Paint New CMU	2 days	Wed 8/6/25	Thu 8/7/25					
19	Re-Install Door 908	1 day	Fri 8/8/25	Fri 8/8/25					
20	Re-Install Mechanical & Electrical Items	2 days	Fri 8/8/25	Mon 8/11/25					
21	Paint Touch-Ups / Re-Install Gym Floor Base	1 day	Tue 8/12/25	Tue 8/12/25					
22	Site Restoration	1 day	Wed 8/13/25	Wed 8/13/25					
23	Final Inspections	1 day	Thu 8/14/25	Thu 8/14/25					
24	Final Cleaning	1 day	Fri 8/15/25	Fri 8/15/25					
25	Punch list by Architect/Engineers	1 day	Mon 8/18/25	Mon 8/18/25					
26	Punch List Work by All Contractors	5 days	Tue 8/19/25	Mon 8/25/25					
27	Turnover to Owner	1 day	Tue 8/26/25	Tue 8/26/25					

Task		External Milestone		Duration-only		External Milestone	
Split		Inactive Task		Manual Summary Rollup		Progress	
Milestone		Inactive Milestone		Manual Summary		Deadline	
Summary		Inactive Milestone		Start-only			
Project Summary		Inactive Summary		Finish-only			
External Tasks		Manual Task		External Tasks			

PART 1 – GENERAL

1.01 PROJECT DESCRIPTION

A. Mount Pleasant Public Schools – Bid Pack No. 5 High School Gym Wall Repair

1.02 CONTRACTORS USE OF PREMISES

- A. Contractors shall limit their use of the Project site for Work and for storage, to allow for:
1. Work by other Contractors.
- B. Contractors shall coordinate their use of the Project site under the direction of the Construction Manager.
- C. Contractors shall assume full responsibility for the protection and safekeeping of materials and equipment stored on the site. No security will be employed.
- D. Each Contractor shall move any stored material or equipment under their control if it interferes with operations of the Owner or other Contractors, as directed by the Construction Manager.
- E. Contractors shall obtain and pay for additional storage or work areas needed for operations not allowed on the site.

1.03 OWNER OCCUPANCY

- A. The owner intends to occupy the Project by **August 26, 2025**. All contractors must comply with this requirement.

1.04 OWNER FURNISHED PRODUCTS

- A. Products furnished and paid for by the Owner are described in the Specifications and in the Bid Division List (Section 00309).
- B. Owner's Responsibilities Regarding Owner-Furnished Products:
1. Arrange for and deliver necessary shop drawings, product data and samples to the installing contractor,
 2. Arrange and pay for product delivery to the site, in concert with the Short Term Construction Activities Plan,
 3. Arrange for the suppliers to submit bills of materials to Contractors,
 4. Inspect deliveries jointly with Contractors,
 5. Submit claims for transportation damage,
 6. Arrange for replacement of damaged, defective, or missing items,
 7. Arrange for manufacturer's warranties, bonds, service, and inspections, as required.

- C. Contractor's Responsibilities Regarding Owner-Furnished Products:
1. Designate needed delivery dates for each product in the Short Term Construction Activities Plan,
 2. Review shop drawings, product data and samples,
 3. Review and return Owner-Furnished shop drawings, data and samples with notification of any discrepancies or problems anticipated in use of the product, within 2 weeks,
 4. Promptly inspect products jointly with the Owner, and record shortages, damaged items and defective items,
 5. Handle products at the site, including uncrating and storage,
 6. Protect products from exposure to elements, and other forms of damage,
 7. Assemble, install, connect, adjust and finish products as stipulated in the Specification,
 8. Repair or replace items damaged by Contractor,
 9. Dispose of all crating, wrapping, and trash related to the material.

END OF SECTION 01010

PART 1 – GENERAL

1.01 *NORMAL WORK HOURS*

- A. 7 a.m. to 5 p.m., Monday through Friday.

1.02 *EXCEPTIONS*

- A. Necessary variations of normal work hours shall only occur with the express approval of the Construction Manager on the Owner's behalf.
- B. As a condition to the contract, the Contractor agrees that no premium-time, over-time or other special rate shall be charged for the scheduled completion of the project for any reason or cause.
- C. It will be the responsibility of each Contractor to provide an adequate work force to assure the timely completion of all Work.
- D. The Contractor will work whatever hours required (overtime, weekends, holidays) to complete their work and allow for the completion of all other work to achieve final completion in the time frames required by the Owner.

END OF SECTION 01030

PART 1 – GENERAL

1.01 CONSTRUCTION MANAGEMENT

- A. This is a Construction Management project. There is no General Contractor. All Contractors on this Project are Prime Contractors. The Owner will award contracts for all Bid Divisions involved in the Project. The Project will be controlled and administered by a Construction Manager.

1.02 WORK ASSIGNMENTS

- A. Nothing contained on the Contract Documents, and especially in the work scope of any Bid Division, shall be construed as a Work assignment to any construction trade industry. Each Contractor is responsible for their own decisions on Work assignments, and shall make them in accord with the prevailing practice in the areas of the Project, and in such a way that neither their progress nor the progress of others will be adversely affected.
- B. Disputes that may arise over improper assignments or over assignments claimed by more than one Contractor shall be settled immediately by the Contractors and shall in no case result in a slow down or stoppage of Work of any Contractor.

1.03 RETAINAGE ON OWNER PURCHASED ITEMS

- A. The Owner may retain an amount of Five Thousand (\$5,000.00) or ten percent (10%); whichever is the larger amount, on material and/or equipment purchased from suppliers for inclusion in the Work, until such time as it is satisfactorily installed. The purpose of this provision is to ensure proper conformance to the Contract Documents.

1.04 PERFORMANCE OF WORK

- A. All Contractors shall provide weekly input to aid in the preparation of the Look Ahead Schedule by which the Project will be built. Consequently, it is the responsibility and obligation of each Contractor to utilize their manpower and resources according to the commitments made under the Look Ahead Schedule.

1.05 PROMPTNESS OF EXECUTION

- A. It is the intention of the Owner to complete the Project in the fastest practical time frame. Whereas varying conditions inherent in the construction process will affect the progress of the Work, it is the intent of each construction contract that the Contractor maintain the progress pace set forth in the CAP schedule.

1.06 PROGRESS PAYMENTS

- A. It is the intention of the Owner to recognize timely performance prescribed in the CAP. Contractors who maintain specified progress will be eligible for 100% Progress Payments.
- B. Contractors who fail to maintain specified progress may be subject to retainage up to 100% of Progress Payments, at such times as those Contractors are judged by the Construction Manager, and/or the Project Architect, to be behind schedule.

1.07 PAYMENT FOR STORED MATERIALS

- A. As a means of eliminating cost escalation on available items of material and equipment, and in the interest of obtaining competitive Bids, the Owner will provide payment for contract items purchased early and stored on site, and in specific pre-approved instances, off the Project site as well. In order to qualify for such payment, the material or equipment must be safely stored, protected, and insured against loss or damage, inspected and dedicated to this Project only. Any extra cost of off-site storage is to be included as part of the Bid Proposal.

- B. Materials stored on the site shall be in the area designated by the Construction Manager. Materials or equipment lost through theft, or mishandling, shall be replaced by the Contractor, without cost to the Owner. The Contractor receiving materials shall provide and maintain protection of stored materials at no additional cost to the Owner. The contractor shall retain responsibility for any loss, damage or replacement costs of any and all stored materials.
- C. Requests for payment for materials delivered and stored at the site must have acceptable itemized bills attached and available at the time of delivery.

1.08 SCHEDULE OF VALUES

- A. The Schedule of Values (Section 00670) shall include the following mandatory items for any Contractor who provides on-site labor as a part of their Contract:
 - 1. Labor for each portion of the work to be performed.
 - 2. Materials for each portion of the work to be performed.
 - 3. Performance Bond and Labor & Material Payment Bond (when required by Owner).
Value: Actual Cost of Bonds
 - 4. Daily housekeeping and clean-up inclusive of any special cleaning and preparation required by the specifications for delivering the building for the Owners occupancy.
Value: Two percent (2%) of the total Contract Amount
 - 5. Retainage / Punch List
Value: Ten percent (10%) of the total Contract Amount

- B. Monthly allocations shall be made to each item as appropriate and as directed by the Construction Manager.
- C. The value of the Housekeeping/Final Clean-Up item shall be two percent (2%) of the Contract value, or as described by the Construction Manager.

1.09 MATERIAL AND EQUIPMENT EXPEDITING

- A. The Construction Manager will initiate and coordinate an expediting program on the Owner's behalf in cooperation with each Contractor, incorporating all critical items of material and/or equipment provided under the various Bid Division contracts.
- B. Each Contractor shall provide the Construction Manager with a completed Material and Equipment Purchase/Delivery list and as a part of the Bid Division Descriptions. The Contractor's purchase order issue date, supplier name and phone number and the delivery date for each material and equipment item required for the project must be provided.
- C. Each Contractor shall further cooperate by keeping the Construction Manager informed of all changes in the commitments previously indicated in the Material and Equipment Purchase/Delivery list and when deemed necessary by the Construction Manager, provide source contacts for direct expediting by the Construction Manager.
- D. The Contractor must require all suppliers to notify the Contractor's office a minimum of twenty-four (24) hours prior to the delivery of any materials or equipment so the Contractor is present to receive and unload the delivery.
- E. If a Contractor is not present on the job site to receive and unload the Contractor's material or equipment the Construction Manager may have the owner authorize others to perform the work. All costs associated with such actions will be deducted from the payments due the Contractor.

1.10 PROTECTION OF THE WORK OF OTHERS

- A. Contractors shall consider protection of finished Work of prime importance. Care shall be taken by Contractors not to damage completed Work of other Contractors, and to provide adequate protection to their own completed Work. Contractors who damage the work of others or existing finishes shall be back charged all costs associated with repairing or replacing the damaged work.
- B. When moving laborers and/or materials across floors, grades, roofs, other vulnerable surfaces, or through occupied areas, the Contractor shall provide adequate surface protection to prevent damage to surfaces.

1.11 MANDATORY ATTENDANCE AT MEETINGS

- A. Each Contractor shall provide a representative of the Contractor authorized and empowered to enact decisions regarding schedule compliance, manpower commitments and cost changes at all Project and Progress Meetings.

1.12 PRE ON-SITE ACTIVITY MEETING

- A. Each Contractor is required to meet on the site with the Field Construction Manager prior to beginning their Work. The purpose of this meeting is to review the intent of the Contract Documents as they pertain to the Contractor's Work, and to integrate the Contractor's schedule into the Short Term Construction Activities Plan for the Project.

1.13 RETURN ACTIVITIES

- A. Each Contractor is required to report to the Field Construction Manager prior to resuming Work on the Project after an absence from the site of one or more working days. The purpose of reporting is to make the Field Construction Manager aware of the Contractor's re-involvement with the Project, and to provide an update regarding any conditions that could affect the continuing Work of the Contractor.

1.14 CUTTING AND PATCHING

- A. Each Contractor shall make arrangements with the Construction Manager for fitting their Work into the Project, and shall coordinate all fitting with other Contractors. Whenever any contractor has been given sufficient information as to required openings prior to beginning their Work, they shall pay the cost for cutting and/or restoring if they fail to provide proper required openings.
- B. Each Contractor shall be responsible for any cutting, fitting and patching that may be required to complete their Work if they have failed to properly notify the Construction Manager and preceding Contractors of any openings required. Contractors shall not endanger the Work of any other Contractor by cutting, excavating or otherwise altering any Work, and shall not cut or alter the Work of any other contractor except with the consent of the Construction Manager. Any costs caused by defective or ill-timed Work shall be borne by the party responsible for such Work.
- C. Cutting or restoring performed by any Contractor, for work that is rejected by the Architect shall be corrected under the direction of the Construction Manager, as instructed by the Architect. The Contractor responsible for the defective restoration shall incur the cost of such Work.
- D. Openings over six inches in diameter must be formed by the concrete contractor(s).
- E. Cutting and patching of concrete floors and decks shall be performed in a neat and workman like manner, using a coring machine. After coring, each Contractor shall pack and grout openings around sleeves or other Work penetrating floors and decks.

- F. No Contractor shall do any cutting that may impair the strength of any building or its components. No holes, except for small screws or bolts, may be drilled in beams or other structural members for the purpose of supporting or attaching Mechanical Work, without prior approval from the Architect.
- G. Each Contractor shall be responsible for the cutting and patching of holes and openings through existing walls, partitions, floors, ceilings, and roofs necessary for the installation of their work. If the location for a hole or opening is through an existing joist, beam, or column, the Contractor shall notify the Construction Manager who, after consultation with the Architect, will instruct the Contractor how to proceed.
- H. Each Contractor shall be responsible for the closing and patching of holes and openings through existing walls, partitions, floors, ceilings, and roofs created by demolition work they are shown to complete unless noted otherwise.
- I. Temporary removal and replacement of all ceilings not scheduled to be replaced shall be the responsibility of the Contractor requiring access.
- J. The Contractor responsible for patching shall provide both the rough (substrate) and finish surfaces. They shall employ only qualified tradesmen to assure that all work is done in a neat and workmanlike manner. All patching shall match adjacent surfaces.

1.15 BLOCKING, BACKING AND GROUNDS

- A. Each Contractor shall be responsible for providing the blocking, backing and grounds necessary for the installation of their work unless specifically noted on the drawings in which case said blocking, backing, and grounds shall be provided by the Bid Division supplying shown backing material.

1.16 ACCESS PANELS

- A. Each Contractor shall be responsible for furnishing the necessary access panels for items of work installed under their contract.
- B. Installation of all access panels shall be the responsibility of the contractor erecting the wall or ceiling system.
- C. If not specified, these access panels shall be approved by the Architect prior to installation.

END OF SECTION 01040

PART 1 – GENERAL

1.01 DESCRIPTION

- A. All Applications for Payment must be submitted on a “Contractor Invoice Form.”
- B. Contractor Invoice Form(s) will be sent to contractors each month by the Construction Manager. The Contractor Invoice Form must be returned to the Construction Manager by the due date (located in the upper left hand corner of the form) in order to be included in the current month Cost Control Manual to be submitted to the Owner. The due date can also be found on **“Attachment A”** of the Owner-Contractor contract.
- C. Any completed Contractors Invoice Form received by the Construction Manager **later** than the contract established due date **will not** be accepted and **will need to be re-billed the following month.**

1.02 SWORN STATEMENTS AND WAIVERS

- A. All Applications for Payment must be accompanied by a Sworn Statement and applicable waivers.
- B. For complete instructions on preparing Sworn Statements and Waivers, please reference Section 01050 – Sworn Statements and Lien Waivers.
- C. Final Sworn Statement and Full Unconditional Lien Waivers must be provided prior to the release of the final payment or exchanged for final payment by presenting them in person.

1.03 SCHEDULE OF VALUES

- A. All billings are processed on the basis of approved Schedules of Values. Absolutely NO CHANGES may be made to approved Schedule of Values.

1.04 CHANGE ORDERS

- A. Increases or decreases in the Contract Amount shall be through change orders.
- B. Each Change Order shall be listed as a new line item on Contractor Invoice Form. This is the only way a change order will be processed for payment.

1.05 APPROVAL OR REJECTION OF APPLICATION FOR PAYMENT

- A. Approved Applications for Payment will be included in the current month Cost Control Manual submitted to the Owner for their approval and payment. Following approval the Owner will process payments and forward them to the Construction Manager for accompaniment of appropriate waiver(s), and payment will be sent on to Contractor.
- B. Contractors with Applications for Payment that were adjusted or rejected will be contacted by Wolgast for explanation.
- C. No payment will be issued through the Owner for any progress payment when the substantiating sworn statement and lien waiver(s) from the previous payment have not been received by the Construction Manager.

END OF SECTION 01045

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Sworn Statement shall be included with each Application for Payment.
- B. A sample Sworn Statement follows as Pages 2 and 3 of this Section.
- C. Page 1 of the Sworn Statement shall contain all necessary Project information, including
 - 1. Date of Sworn Statement.
 - 2. County in which the deponent is at the time of the completion of the Sworn Statement.
 - 3. Deponent name.
 - 4. Contractor name on whose behalf the deponent is making statement.
 - 5. County in which the Project is situated.
 - 6. Project name and site location.
 - 7. Deponent signature and typewritten name.
 - 8. Notary name, signature, and commission expiration date.
- D. Page 2 of the Sworn Statement shall contain all necessary Project information, including:
 - 1. Project name and site location.
 - 2. Subcontractor/Supplier listings as submitted for approval at the beginning of the Project.
 - 3. Description of work to be completed by each subcontractor/supplier.
 - 4. Total contract amount for each subcontractor/supplier.
 - 5. Listings of amounts paid, amounts owing, retentions held, and balances to complete.

1.02 WAIVERS

- A. All Applications for Payment must be accompanied by a Sworn Statement and applicable waivers.
- B. Sample “partial” and “full” waivers follow as Pages 4 and 5 of this Section.

1.03 APPLICATION AND CERTIFICATE FOR PAYMENT

- A. No payment will be issued through the Owner for any progress payment when the substantiating sworn statement and lien waiver(s) from the previous payment have not been received by the Construction Manager.
- B. For additional information and instructions on the Application and Certificate for Payment, please reference Section 01045.

Sample Sworn Statement

STATE OF MICHIGAN

COUNTY OF _____

_____, Being duly sworn, deposes and says that
_____ Is the Contractor for an improvement to the following described real property situated in
_____ COUNTY, MICHIGAN, known as _____. That the following is a statement of each subcontractor and
supplier and laborer, for which laborer the payment of wages for fringe benefits and withholdings is due but unpaid, with whom the contractor has
subcontracted for performance under the contract with the owner or lessee thereof, and that the amounts due to the persons as of the date hereof
are correctly and fully set forth opposite their names, as follows on Page 2.

That the contractor has not procured materials from, or subcontracted with, any other person other than those set forth and owes no money for the
improvement other than the sums set forth.

Deponent further says that he or she makes the foregoing statement as the contractor for the purpose of representing to the owner or lessee of the
above described premises and his or her agents that the above described property is free from claims of construction liens, or the possibility of
construction liens, except as specifically set forth and except for claims of Construction Lien Act, Act No. 497 of the Public Acts of 1980, as amended,
being Section 570.1109 of the Michigan Compiled Laws.

Deponent Signature

Deponent Name – Typewritten

_____, County, Michigan
Subscribed and sworn before me this _____ day of _____, 19_____.

Notary Public Signature

Notary Public Name – Typewritten

My commission expires: _____

Warning to the owner; an owner or lessee of the above described property may not rely on this sworn statement to avoid the claim of a
subcontractor, supplier, or laborer who has provided a notice of furnishing or a laborer who may provide a notice of furnishing pursuant to Section
109 of the Construction Lien Act to the designee or the owner or lessee if the designee is not named or has died.

Warning to the deponent; a person, who with intent to defraud, gives a false sworn statement is subject to criminal penalties as provided in Section
110 of the Construction Lien Act, Act No. 497 of the Public Acts of 1980, as amended, being Section 50.1110 of the Michigan Compiled Laws.

Project Name:

Site Location:

Wolgast Corporation – Construction Management

**PARTIAL UNCONDITIONAL WAIVER OF LIEN
Subcontractor/Supplier**

Check No. _____

Amount: \$ _____

Invoice#: _____

I/we have a contract with **Mount Pleasant Public Schools – Bid Pack No. 5 High School Gym Wall Repair** to provide _____ For the improvement of the property described as **Mount Pleasant Public Schools**, and hereby waive my/our construction lien to the amount of \$ _____ for labor/materials provided through _____.

This waiver, together with all previous waivers, if any, (circle one) DOES / DOES NOT cover all amounts due to me/us for contract improvement through the date shown above.

(Name of Lien Claimant)

By: _____ Signed on: _____
(Signature of lien claimant or authorized officer or agent of lien claimant) (Date)

Address: _____

Telephone: _____

**FULL UNCONDITIONAL WAIVER OF LIEN
Subcontractor/Supplier**

Check No. _____

Amount: \$ _____

Invoice#: _____

My/our contract with **Mount Pleasant Public Schools – Bid Pack No. 5 - High School Gym Wall Repair** to provide _____ For the improvement of the property described as **Mount Pleasant Public Schools**, having been fully paid and satisfied, all my/our construction lien rights against such property and hereby waived and released.

(Name of Lien Claimant)

By: _____ Signed on: _____
(Signature of lien claimant or authorized officer or agent of lien claimant) (Date)

Address: _____

Telephone: _____

END OF SECTION 01050

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Change Event Form will be used to document any request for a change in the scope of the Work throughout the construction process, and establish owner and architect approval prior to preparing a change order or having work performed.
- B. The Change Event Form will only be used when it IS NOT NECESSARY for work to be performed immediately.

1.02 PROCESSING OF CHANGE EVENT FORMS

- A. The Owner, Architect, Engineer, Construction Manager or Contractor may initiate a request for change during the Project in the form of a bulletin/proposal request, construction change directive, request for information, or value engineering proposal. Requests for changes shall be submitted to the Construction Manager for preparation and distribution of the Change Event Form.
 - B. The Change Event will be accompanied by a copy of all related sketches, drawings, specifications, instructions, etc.
 - C. The Construction Manager will forward the Change Event to the Contractor for the purposes of obtaining an itemized quote (including labor, material, equipment, units, rates, and subtotals) for the changes requested.
 - D. The Contractor will complete and return the Change Event Form within five (5) days, or less, to the Construction Manager.
 - E. The Construction Manager will review all Change Events and itemized detail for accuracy and validity within 48 hours of receiving said information.
 - F. If the Construction Manager approves the costs or deductions submitted by the Contractor in the Change Event, the Construction Manager will:
 - 1. Forward one (1) copy of the Change Event with itemized detail to the Architect for review and endorsement, stipulating the date by the endorsed Change Event is to be returned.
 - 2. Discuss the Change Event and costs or deductions with the Architect to secure their endorsement.
 - 3. Forward one (1) copy of the Change Event with itemized detail to the Owner for approval and signature.
 - G. After receiving the endorsed Change Event(s) timely from the Architect and Owner, the Construction Manager will prepare a Change Order for Contractor signature. The Contractor will sign the Change Order, acknowledging notice to proceed with change, and return a copy back to the Construction Manager.
 - H. Only Change Events with the Architect's and Owner's signature of approval and acceptance will be processed into Change Orders.
- 1.03 PRICING GUIDELINES FOR CHANGE EVENTS**
- A. Pricing Guidelines for Change Events that will be considered for Change Orders shall be fully detailed and itemized showing each of the following:
 - 1. Labor: All field labor indicating worker name, date, and hours worked and hourly rate; hourly rate shall be based on straight time only and shall include the labor classification.

2. Fringes: All established payroll taxes, assessments and fringe benefits on the labor in 7.3.2.1; this may include, but is not limited to, FICA, Federal and State unemployment, Health and Welfare and Workers Compensation; each of the fringes is to be a separate line item.
3. Material: All material purchased by the Contractor and incorporated into the changed Work, showing quantities, unit costs and costs of each item as appropriate; material costs will only be allowed at the Contractor's actual cost including any and all discounts, rebates or related credits. Only one third (33 percent) of the cost of reusable materials for each use, such as formwork lumber, shoring or temporary enclosures will be allowed.
4. Equipment: Rental Equipment – charges for certain non-owned, heavy or specialized equipment up to 100 percent of the documented rental costs; no rental charges will be allowed for hand tools, minor equipment, simple scaffolds, etc.; downtime due to Contractor caused delays, repairs, maintenance, late fees and weather will not be allowed. Owned Equipment – charges for certain owned, heavy or specialized equipment up to 100 percent of the cost listed by the Associated Equipment Dealers Blue Book; no charges will be allowed for hand tools, minor equipment, simple scaffolds, etc.; only the actual time the equipment is necessary to be in use to perform the work will be allowed; downtime due to Contractor caused delays, repairs, maintenance and weather will not be allowed.
5. A total amount of ten (10) percent of the total of all labor, materials and equipment performed by the Contractor's own forces shall be allowed for the Contractor's combined overhead and profit.
6. A total amount of ten (10) percent of the total of all extra work performed by the Contractor's Subcontractor(s) shall be allowed for the Contractor's combined overhead and profit.
7. For work deleted, that would have been completed by the Contractor or the Contractor's Subcontractor(s) an amount equaling the cost of the Work plus an amount equaling five (5) percent of the work shall be credited to the owner.

1.04 TIME LIMIT

- A. Contractor must return the Change Event and respective price quotations within five (5) working days, unless noted otherwise on the Construction Management issued Change Event.
- B. Failure to return the completed Change Event within the predefined time period will indicate the contractor shall have no charge for the associated work within their bid division per the Change Event at no additional cost to the Owner, Construction Manager and Architect.

END OF SECTION 01051

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Change Order Document is the legal instrument used to modify the Contract Documents.
- B. Change Orders will be prepared, as necessary, following the acceptance of the Change Event amount by the Owner (Section 01051).
- C. A sample Change Order follows as page 2 of this Section.

1.02 PROCESSING OF CHANGE ORDERS

- A. All changes and potential changes to the Project shall be documented by using the Change Event Form (Section 01051).
- B. Complete and approved Change Events will be converted into Change Orders as necessary.
- C. One (1) original Change Order shall be prepared by the Construction Manager and forwarded to Contractor for signature. Signatory parties shall include: the Contractor only on Change Order.

1.02 PRICING GUIDELINES

- A. Pricing Guidelines for Change Events that will be considered for Change Orders shall be fully detailed and itemized showing each of the following:
 - 1. Labor: All field labor indicating worker name, date, and hours worked and hourly rate; hourly rate shall be based on straight time only and shall include the labor classification.
 - 2. Fringes: All established payroll taxes, assessments and fringe benefits on the labor in 7.3.2.1; this may include, but is not limited to, FICA, Federal and State unemployment, Health and Welfare and Workers Compensation; each of the fringes is to be a separate line item.
 - 3. Material: All material purchased by the Contractor and incorporated into the changed Work, showing quantities, unit costs and costs of each item as appropriate; material costs will only be allowed at the Contractor's actual cost including any and all discounts, rebates or related credits. Only one third (33 percent) of the cost of reusable materials for each use, such as formwork lumber, shoring or temporary enclosures will be allowed.
 - 4. Equipment: Rental Equipment – charges for certain non-owned, heavy or specialized equipment up to 100 percent of the documented rental costs; no rental charges will be allowed for hand tools, minor equipment, simple scaffolds, etc.; downtime due to Contractor caused delays, repairs, maintenance, late fees and weather will not be allowed. Owned Equipment – charges for certain owned, heavy or specialized equipment up to 100 percent of the cost listed by the Associated Equipment Dealers Blue Book; no charges will be allowed for hand tools, minor equipment, simple scaffolds, etc.; only the actual time the equipment is necessary to be in use to perform the work will be allowed; downtime due to Contractor caused delays, repairs, maintenance and weather will not be allowed.
 - 5. A total amount of ten (10) percent of the total of all labor, materials and equipment performed by the Contractor's own forces shall be allowed for the Contractor's combined overhead and profit.

6. A total amount of ten (10) percent of the total of all extra work performed by the Contractor's Subcontractor(s) shall be allowed for the Contractor's combined overhead and profit.
7. For work deleted, that would have been completed by the Contractor or the Contractor's Subcontractor(s) an amount equaling the cost of the Work plus an amount equaling five (5) percent of the work shall be credited to the owner.

CHANGE ORDER

PROJECT:

PROJECT NO:

CHANGE ORDER NO.:

CHANGE ORDER DATE:

CONTRACT DATE:

CONTRACT NO.:

CONTRACTOR:

ARCHITECT:

OWNER:

It is hereby agreed to make the following changes to the Contract:

1. QR#
2. N/A
3. N/A
4. N/A
5. N/A

This work described by this Change Order becomes a part of and is to be performed by the same terms as the existing Contract. This Change Order must be signed by the Owner, Architect, and Contractor to be valid.

The Original Contract Sum.....	\$
Net change by previously authorized Change Orders.....	\$
The Contract Sum prior to this Change order.....	\$
The Contract Sum will be <input type="checkbox"/> increased / <input type="checkbox"/> decreased by this Change Order.....	
The new Contract Sum including this Change Order is.....	\$

Contractor

Architect

Owner

By: _____

By: _____

By: _____

Date: _____

Date: _____

Date: _____

DISTRIBUTION - FULLY EXECUTED CHANGE ORDERS ARE COPIED AND DISTRIBUTED AS FOLLOWS:

White (original) – Owner; Blue – Construction Manager; Green – Contractor; Yellow – Architect

END OF SECTION 01053

PART 1 – GENERAL

1.01 LAYOUT AND MEASUREMENTS

- A. The responsibility for accurate layout and measurement of the Work of each Contractor is their own. In addition, each Contractor shall verify the dimensional accuracy of the Work upon which their own Work relies before they begin their Work. They shall report all inaccuracies to the Construction Manager, and shall not proceed until all corrections are made. If a Contractor proceeds with their Work on dimensionally inaccurate Work of another Contractor, they shall be liable for the cost of corrections to their own Work when the error is corrected, and shall cooperate in the correction as directed by the Construction Manager.
- B. The Owner, through the Construction Manager, will provide a bench mark and baseline for all Contractors' reference.
- C. If the Construction Manager performs layout work or must arrange for others to perform layout work that is the responsibility of the Contractor, those costs will be charged to the Contractor. The costs will be submitted to the Owner and the Owner will deduct those costs from the Contractor's contract payment.

END OF SECTION 01055

1.01 *PREVAILING WAGE*

- A. There is no prevailing wage on this project.

END OF SECTION 01060

PART 1 – GENERAL

1.01 DESCRIPTION

A. Work included:

1. Throughout the Contract Documents, reference is made to codes and standards which establish qualities and type of workmanship and materials, and which establish methods for testing and reporting on the pertinent characteristics.
2. Where materials or workmanship are required by these Contract Documents to meet or exceed the specifically named code or standard, it is the Contractor's responsibility to provide materials and workmanship that meet or exceed the specifically names code or standard.
3. It is also the Contractor's responsibility, when so required by the Contract Documents or by written request from the Owner, to deliver to the Owner all required proof that the materials or workmanship, or both, meet or exceed the requirements of the specifically named code or standard. Such proof shall be in the form requested in writing by the Owner, and generally will be required to be copies of a certified report of tests conducted by a testing agency approved for that purpose by the Owner.

B. Related Work Described Elsewhere:

1. Specific naming of codes or standards occurs on the Drawings and other Sections of these specifications.

1.02 QUALITY ASSURANCE

A. Familiarity with Pertinent Codes and Standards.

1. In procuring all items used in this Work, it is the Contractor's responsibility to verify the detailed requirements of the specifically named codes and standards and to verify that the items procured for use in this Work meet or exceed the specified requirements.

B. Rejection of Non-Complying Items.

1. The Owner reserves the right to reject items incorporated into the Work which fail to meet the specified minimum requirements.
2. The Owner further reserves the right and without prejudice to other recourse the Owner may take, to accept non-complying items subject to an adjustment in the Contract Amount as approved by the Owner.

C. Applicable standards listed in these Specifications include, but are not necessarily limited to, standards promulgated by the following agencies and organizations:

1. AASHTO – American Association of State Highway and Transportation Officials, 341 National Press Building, Washington, D.C. 20004.

ACI – American Concrete Institute, Box 19150, Redford Station, Detroit, Michigan 48219

AISC – American Institute of Steel Construction, Inc., 1221 Avenue of the Americans, New York, New York, 10020.

ANSI – American National Standards Institute (successor to USASI and ASAO), 1430 Broadway, New York, New York 10018.

ASTM – American Society for Testing Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.

AWS – American Welding Society, Inc., 2501 N.W. 7th Street, Miami, Florida 33125.

AWWA – American Water Works Association, Inc., 6666 West Quincy Avenue, Denver, Colorado 80235.

BOCA – Building Officials Code Administrators International, Inc. 17926 South Halsted Street, Homewood, Illinois 60460.

CRSI – Concrete Reinforcing Steel Institute, 228 North LaSalle Street, Chicago, Illinois 60610.

CS – Commercial Standard of NBS, U.S. Department of Commerce, Government Printing Office, Washington, D.C. 20402.

FGMA – Flat Glass Marketing Association, 3310 Harrison, Topeka, Kansas 66611.

State of Michigan Fire Marshall Bulletin 412.0.

NAAMM – The National Association of Architectural Metal Manufacturers, 1033 South Boulevard, Oak Park, Illinois 60302.

NEC – National Electric Code (see NFPA).

NEMA – National Electrical Manufacturer's Association, 155 East 44th Street, New York, New York 10017.

NFPA – National Fire Protection Association, 470 Atlantic Avenue, Boston, Massachusetts 02210.

SDI – Steel Deck Institute, 135 Addison Avenue, Elmhurst, Illinois 60125.

SSPC – Steel Structures Painting Council, 4400 Fifty Avenue, Pittsburgh, Pennsylvania 15213.

TCA – Tile Council of America, Inc., P.O. Box 326, Princeton, New Jersey 08540.

UL – Underwriters' Laboratories, Inc., 207 East Ohio Street, Chicago, Illinois 60611.

Fed. Specs, and Fed. Standards: Specifications Sales (3FRI), Building 197, Washington Navy Yard, General Service Administration, Washington, D.C. 20407.

UBC – Uniform Building Code, International Conference of Building Officials, 5360 South Workman Mill Road, Whittier, California 90601.

END OF SECTION 01085

PART 1 – GENERAL

1.01 ALTERNATES

- A. This section identifies each alternate by number and describes the basic changes to be incorporated into the work, only when that alternate is made a part of the Work by specific provisions in the Owner-Contractor Agreement.
- B. Related Requirements in other parts of the Project Manual:
 - 1. Method of quotation of the cost of each alternate, and the basis of the Owner's acceptance of alternates: Bidding Documents
 - 2. Incorporation of alternates into the Work: Owner-Contractor Agreement.
- C. Related Requirements Specified in Other Sections:
 - 1. Part 1.01: Description of Work
 - 2. Sections of the Specifications as listed under the respective Alternates.
- D. Referenced sections of specifications stipulate pertinent requirements for products and methods to achieve the work stipulated under each Alternate.
- E. Coordinate pertinent related work and modify surrounding work as required to properly integrate the work under each Alternate and to provide the complete construction required by the Contract Documents.
- F. The Owner reserves the right to accept the proposed amount for any alternate at any time during the active construction of the project. If the Owner elects to accept an alternate after the Owner-Contractor contract has been issued, the work shall be added to the contract by change order.

1.02 DESCRIPTION OF ALTERNATES

N/A

END OF SECTION 01100

PART 1 – GENERAL

1.01 PRE-CONSTRUCTION MEETINGS

- A. Prior to the initiation of on-site activity, a meeting will be held with all Bid Division Contractors for the purpose of planning, scheduling, and coordinating an orderly initiation of on-site construction activity. Attendance at this meeting is required of all Contractors. The Construction Manager will advise all Contractors of the time and location of this meeting.
- B. A representative of the contractor authorized to enact decisions regarding schedule, manpower commitments and costs must attend the pre-construction meeting.

1.02 PRE-CONSTRUCTION CONFERENCES

- A. Each Contractor is required to meet on the site with the Construction Manager prior to beginning their Work. The purpose of this meeting is to review the intent of the Contract Documents as they pertain to the Contractor's Work, and to integrate the initiation of that Work with the Work already in progress on the site.

1.03 PROGRESS AND PROJECT MEETINGS

- A. Contractors active on-site shall be required to attend Progress and Project Meetings when called by the Construction Manager. These meetings are for the purpose of planning and assessing construction progress and for discussing problems of mutual concern.
- B. It is mandatory that any contractor actively engaged in work on site shall be required to have a representative of the contractor authorized and empowered to enact decisions regarding schedule, manpower commitments and costs and their superintendent be in attendance at these meetings, or the Owner may withhold the Contractor's payment.
- C. All decisions, instructions, and interpretations given by the Owner or their designated representatives at these meetings shall be conclusive, and shall be binding on the Contractors.
- D. The proceedings of such meetings will be recorded and posted. Copies will be forwarded to Contractors.

END OF SECTION 01200

PART 1 – GENERAL

1.01

- A. Contractor shall be solely responsible to submit all shop drawings, product data, and samples, or other items required by the Construction Documents hereinafter referred to as submittals to the Construction Manager for processing and forwarding to the Architect for their review.
- B. Submittals shall be delivered to the Construction Manager's office in accordance with the procedures and dates required by the Construction Documents and/or this section, Section 01300, of the project manual (specifications) whichever is more stringent in its requirement. All submittals shall be provided to the Construction Manager within 30 calendar days of receipt of the signed contract or Notice to Proceed unless specified otherwise in the Construction Documents.

1.02 SUBMITTALS - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- A. The Contractor shall submit to the Construction Manager individual submittals either via Procore or email. All files must include the specification number, item number and name as indicated in the submittal log.
- B. Contractor shall provide electronic copies of submittals. The submittals shall be in PDF format only. COLOR SAMPLES MUST BE SUBMITTED AS PHYSICAL SAMPLES.
- C. In submitting shop drawings, product data and samples, each Contractor represents that they have checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. All submittals must be stamped or signed by the contractor responsible for submitting, to attest to their review.

ALL SUBMITTALS MUST BE ACCOMPANIED BY THE WOLGAST CORPORATION SHOP DRAWING / SUBMITTAL FORM (see Page 2 of this section).

- D. Any submittal not accompanied by the Wolgast Corporation Shop Drawing / Submittal Form will be returned to the contractor for resubmittal.
- E. The Submittal Log provided as part of the Bid Division Descriptions shall be a guideline only and is not to be a representation of every or all submittals required for the completion of the Project. The Contractor shall be required to provide all items and perform all work in complete compliance with the Contract Documents.
- F. The Contractor shall not be relieved of the responsibility for any deviation in the work required by the Contract Documents, or any errors and omissions contained in shop drawings, product data; samples, or other submittal data reviewed and returned to the Contractor by the Architect. Any work performed prior to the Architect's review shall be subject to removal and replacement at the Contractor's expense.
- G. No portion of the Work requiring submission of shop drawings, product data or samples shall commence until the submission has been reviewed by the Architect. If any work is performed prior to the Architect's review of the required submittal(s), the work shall be subject to removal and replacement at the Contractor's expense if that work does not comply with the requirements of the contract documents.

1.03 START-UP DOCUMENTS (CONTRACT-AWARD SUBMITTALS)

- A. (Refer to Sections 00100, 00600, 00650, 00670, 00680, 00690.)

1.04 CONTRACT CLOSEOUT DOCUMENTS (CLOSE-OUT SUBMITTALS)

- A. (Refer to Sections 01700, 01720, 01730, and 01740.)

END OF SECTION 01300

TRANSMITTAL FORM FOR WOLGAST CORPORATION SHOP DRAWINGS / SUBMITTAL FORM

CONTRACTOR: <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px;"></div>	PROJECT TITLE AND LOCATION <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px;"></div>	DATE SUBMITTED: _____ DATE RECEIVED: _____ WOLGAST PROJECT NO. _____ NEW: _____ RESUB. _____ SUB. NO. _____ RESUB. NO. _____
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Pkg. NO.	Pkg. Name	CW Item No.	CSI Code No.	CSI Code Name	Item Ref. No.	Item Description	Item Type	No. of each	Subcontractors/MFR

The undersigned certifies that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract documents except as otherwise noted. NOTE: Approval of items submitted does not relieve contractor from complying with all requirements of the contract documents.

CONTRACTOR'S COMMENTS: <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px;"></div>	<div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> CONTRACTOR'S NAME <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> SIGNATURE
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PART 1 – GENERAL

1.01 CONSTRUCTION SCHEDULES

- A. A Milestone Schedule is provided as part of the bidding documents to indicate dates by which certain critical tasks and/or portions of the project must be completed. The Milestone schedule also indicates the date by which the Project must be 100% complete, receipt of final inspections, occupancy allowed by all governing authorities, and owner move-in.
- B. Based on the Milestone Schedule each Contractor shall submit to the Construction Manager, at or prior to the Pre-Construction Meeting, two (2) copies of the proposed progress schedule for their Work identifying the critical tasks that they must complete to achieve the Milestone Schedule completion dates.
- C. The Construction Manager will utilize the scheduling input from the Contractors for incorporation into the Project Construction Schedule. The Project Construction Schedule will be compiled and distributed to all contractors.
- D. By signing the Owner-Contractor Agreement the Contractor agrees to cooperate with all of the other multiple contractors and to coordinate all construction activities to allow the work of that contractor and all other contractors to meet the completion date(s) established in the Milestone Schedule. The Contractor also agrees that the Project Construction Schedule shall be followed to achieve or improve upon the completion dates for the various tasks in order to attain the final completion of the project by the scheduled completion date.
- E. The Construction Manager will, at times, issue a weekly Look-Ahead Schedule as part of the weekly Contractor Coordination Meetings. The Look-Ahead Schedule will support the Project Construction Schedule and provide specific scheduling information for the Contractor to assure the scheduled completion dates are achieved. The Contractor agrees to comply with the required work identified in the Look-Ahead Schedules.

END OF SECTION 01350

PART 1 – GENERAL

1.01 QUALITY CONTROL BY PROJECT ARCHITECT AND CONSTRUCTION MANAGER

- A. Each Contractor shall comply with the quality control provisions of the Contract Documents.
- B. The quality and completeness of the Work shall be maintained on a day-to-day basis. Inaccurate, faulty, incomplete, and defective Work shall be corrected by the Contractor without continuous prodding by the Construction Manager. Failure to cooperate in this continuous punch list effort may reduce Progress Payments.

1.02 CONTRACTOR QUALITY CONTROL

- A. Each Contractor shall be responsible to provide a quality workmanship consistent with the requirements of the Contract Documents. All Work will be of good quality and free from faults and defects. Every care shall be exercised to ensure that the quality specified is the quality provided.
- A. If at any time a Contractor is of the opinion that the quality of their Work is, or will be, jeopardized as a result of rescheduling or coordination of the Project, or for any other reason known to them, they shall stop work immediately and shall inform the Construction Manager of their action and the reasons thereof. The Contractor shall immediately provide a written explanation to the Field Construction Manager and Project Manager for the record, and shall mail a copy to the Architect. Upon investigation by the Construction Manager, a decision will be made on the note of jeopardy, in order to resolve the problem.
- C. Any Contractor who compounds a mistake by installing their product on another Contractor's obviously faulty work will assume responsibility for repair of said work.

END OF SECTION 01400

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Owner may employ and pay for the services of an independent testing laboratory to perform specified testing as identified in the Bid Division Descriptions.
- B. Contractors shall cooperate with the Laboratory to facilitate the execution of this service.
- C. Employment of the Laboratory shall in no way relieve the Contractor's obligation to maintain the quality of their work.

1.02 CONTRACTOR'S RESPONSIBILITIES

- A. Contractors shall cooperate with Laboratory personnel, and shall provide access to Work, and to manufacturers' operations.
- B. Contractors shall provide to the Laboratory samples of proposed materials, which require testing.
- C. Contractors shall provide to the Laboratory the preliminary design mix proposed to be used for concrete and other materials, which require control, by the Laboratory.
- D. Contractors shall furnish all test results and coordinate testing with the Construction Manager.
- E. Contractors shall furnish incidental labor and facilities necessary:
 - 1. To provide access to Work to be tested.
 - 2. To obtain and handle samples at the Project site or at the source of the project to be tested.
 - 3. To facilitate inspections and tests.
- F. Contractors shall notify the Laboratory sufficiently in advance of operations to allow for Laboratory assignment of personnel and scheduling of tests.
- G. Contractors shall make arrangements with the Laboratory and pay for additional samples and tests required for Contractor's convenience.
- H. Contractors shall comply with the Project Team's instructions regarding testing.

END OF SECTION 01410

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The Owner will allow each Contractor to use power and water, where available, for use in construction. All usage will be arranged for by the Construction Manager.

1.02 REQUIREMENTS OF REGULATORY AGENCIES

- A. Comply with the National Electric Code.
- B. Comply with federal, state and local codes and regulations and with utility company requirements.

1.03 MATERIALS, GENERAL

- A. Cords, connectors, etc. may be new or used, but must be adequate in capacity for the required usage, must not create unsafe conditions, and must not violate requirements of applicable codes and standards.

1.04 TEMPORARY ELECTRICITY AND LIGHTING

- A. The Electrical Contractor shall furnish, install and maintain a complete and adequate temporary electrical service and distribution system for use by the Construction Manager and all Contractors during the construction period.
- B. The Electrical Contractor shall obtain, provide, and pay for all temporary electrical power service installation from the local power company or the existing building if the capacity is available.
- C. The cost of electrical power consumption shall be paid for by the Owner.
- D. Prior to the start of construction, the Electrical Contractor shall provide temporary power at each construction area and at the office of the Construction Manager. Each temporary service will be sufficient in size to provide continuous power for: twelve (12) ground fault protected, 20 amp, duplex receptables; two (2) 220v, 3 phase 40 amp receptable; 20 amp, 120v grounded temporary lighting circuits to provide for a minimum of one (1) lamp holder for each 200 square feet or a minimum of one (1) per room. Each lamp holder will be provided with one (1) 150 watt lamp and guard with no more than twelve (12) lamps per circuit. The Electrical Contractor shall be responsible for replacing all lamps as required.
- E. All wire and cable shall be sized to hold voltage drop at all outlets to a maximum of 5% total from transformer.
- F. Portions of the permanent electrical system may, at the option of the Electrical Contractor, be used for temporary power and lighting. The Electrical Contractor shall replace all burned out lamps, damaged wiring devices, and plates prior to acceptance of building by Owner. When any part of the permanent electrical system is used for temporary power or lighting, the Electrical Contractor will maintain the system until the final acceptance by the Owner and begin all warranties and guarantees upon the date of substantial completion.
- G. Overtime work requiring standby electricians shall be at the expense of the Contractor requiring the same.
- H. Installation of temporary electrical power and lighting shall be as scheduled by the Construction Manager.
- I. All temporary electrical installations shall be in compliance with the latest National Electrical Code (N.E.C.), MIOSHA or OSHA, whichever is more stringent. Compliance with N.E.C Section 210-8(b) shall be the responsibility of the Electrical Contractor. Assured grounding systems as defined in Exception Number 2 of N.E.C. Section 210-8(b) shall not be used in place of ground fault protection 9.

The Electrical Contractor shall completely remove the temporary electrical service and distribution system when directed to do so by the Construction Manager. The contractors responsible for the installation of all ceilings and partitions shall patch their work as necessary after removal of the temporary electrical system at no additional cost to the Construction Manager or Owner.

- J. The Owner shall pay for all electrical energy consumed during the construction period except for energy consumed to provide power or lighting in excess to those listed in this Article.
- K. Any electrical requirements for power or lighting beyond those listed in this Section (including energy charges) shall be the responsibility of the Contractor requiring them.

1.05 TELEPHONE SERVICE

- A. A telephone, if located at the Construction Manager's Field Office, may be provided for all Contractors' use in making local or long distance calls.

1.06 WATER

- A. A temporary water distribution center will be provided in a nearby convenient location. The Contractor shall supply all hoses, etc. beyond that point.

1.07 SANITARY FACILITIES

- A. The Construction Manager will arrange for temporary sanitary facilities. Contractors shall not use permanent facilities at the site.

1.08 TEMPORARY HEAT

- A. When identified and required by the H.V.A.C. Contractor's Bid Division Description, the H.V.A.C. contractor shall install a heating system (permanent or temporary) in readiness for furnishing temporary heat in the new structure.
- B. When the H.V.A.C. Contractor is required to provide a temporary heating system, the H.V.A.C. Contractor shall operate and maintain the temporary heating system. The temporary heating system shall maintain a minimum temperature at all times of 40 degrees during rough-ins and 60 degrees during finishing operations. The H.V.A.C. contractor shall be responsible for the costs of all temporary electrical work relating to the temporary heating system if the permanent system is not used.
- C. In the event that temporary gas fired or open flame heating devices are used, they shall be of the heat exchanger type properly vented to the outdoors, and shall comply with local and state laws, codes, and ordinances.
- D. Portions of the new heating system may, at the option of the H.V.A.C. contractor, be used for temporary heat providing that all parts of the system are cleaned and restored to prime condition prior to acceptance. The H.V.A.C. contractor shall remove any filters used during the temporary heating period and replace with new filters. In addition, the H.V.A.C. subcontractor shall pay the cost of extending warranty and guarantee periods on any permanent equipment used prior to Substantial Completion. The H.V.A.C. contractor shall completely remove the temporary heating system when directed to do so by the Construction Manager.
- E. When identified and required by the H.V.A.C. Contractor's Bid Division Description, all or portions of the new (permanent) H.V.A.C. system shall be used for temporary heat. When the new/permanent system is used for temporary heat, the H.V.A.C. Contractor shall:

1. Maintain the system throughout its use.
2. At the end of the system's use as a temporary system, the H.V.A.C. Contractor shall replace all filters with new filters.
3. Cover openings in permanent return air ductwork with filter media. Maintain and replace filter media as required so air flow is not restricted.
4. Clean and restore all parts of the system to prime condition immediately prior to final acceptance by the Owner.
5. Provide the full warranty and guarantee of the entire system with the warranty/ guarantee period beginning at the time of final acceptance by the Owner.

F. All fuel costs for Temporary Heat shall be paid for by the Owner.

1.09 EXECUTION

A. Each Contractor shall maintain and operate systems to assure continuous service, and avoid disruption of service.

1.10 REMOVAL

- A. Each Contractor shall promptly remove their own temporary materials and equipment when their use is no longer required.
- B. Each Contractor shall clean and repair damage they have caused by temporary installations or use of temporary facilities.
- C. Each Contractor shall restore existing facilities they have used for temporary services to their specified or original condition.

END OF SECTION 01510

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Each Contractor shall furnish, install, and maintain construction aids required for the performance of their own Work, and shall move or remove them when they are no longer needed for the Work.
- B. Certain construction aids will be provided for and maintained by the Owner as indicated in later paragraphs in this Section.

PART 2 – PRODUCTS

2.01 MATERIALS, GENERAL

- A. Materials may be new or used, shall be suitable for their intended purposes, and shall not violate the requirements of applicable codes and standards.

2.02 CONSTRUCTION AIDS

- A. Each Contractor shall provide all required construction aids and equipment to facilitate the execution of the Work, including scaffolds, staging, ladders, and other such facilities and equipment.
- B. Contractors shall maintain all facilities and equipment in a first-class condition.

2.03 TEMPORARY ENCLOSURES

- A. The Construction Manager will arrange for temporary enclosures except those required by section 01900 – 2.01 to separate work areas from the areas of existing buildings occupied by the Owner to prevent penetration of dust or moisture into occupied areas, to prevent damage to existing equipment, and to protect the Owner's employees, customers, and operations from construction work.

PART 3 – EXECUTION

3.01 PREPARATION

- A. Consult with the Owner, Construction Manager, and other Consultants and review the site conditions and other factors, which could affect construction procedures and construction aids, including adjacent properties and public facilities which may be affected by execution of the project.

3.02 GENERAL

- A. Comply with applicable requirements of the Specifications.
- B. Relocate construction aids as required by the progress of construction, by storage requirements, and to accommodate requirements of the Owner and other Contractors employed at the site.

3.03 REMOVAL

- A. Completely remove temporary materials, equipment, and services:
 - 1. When construction needs can be met by use of permanent construction.
 - 2. At the completion of the Project.
- B. Clean and repair damage to the permanent facilities caused by installation or by use of temporary facilities.
- C. Restore existing facilities used for temporary purposes to specified or original condition.

END OF SECTION 01520

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Safety is the responsibility of each individual Contractor. Each Contractor shall comply with all local safety ordinances and MIOSHA regulations and requirements while performing the Work.
- B. Each Contractor is required to submit Safety Data Sheets (SDS) to the Construction Manager via Procore or email, to be used for reference only, prior to transporting the material/chemical on site. In addition, it is the responsibility of each Contractor to maintain an accessible SDS file for their employees, subcontractors, sub-subcontractors, and suppliers that are on site.
- C. Each Contractor shall submit evidence of an Employer Safety Program that complies with current MIOSHA regulations and requirements prior to beginning any contract Work.
- D. Each Contractor and their Subcontractor(s), Sub-subcontractor(s), and Suppliers shall take all necessary precautions to ensure the safety of the public and/or workers on the job, and to prevent accidents or injury to any persons, on, about, or adjacent to the premises where the Work is being performed. The Contractor and their Subcontractor(s), Sub-subcontractor(s), and Supplier(s) shall comply with Federal or State OSHA regulations and all other laws, codes, ordinances, and regulations relative to safety and the prevention of accidents.
- E. The Contractor shall designate a responsible representative at the jobsite as Safety Representative who shall be responsible for the promotion of safety and prevention of accidents, and shall enforce all applicable laws, ordinances, codes, rules, regulations, and standards pertaining to safety and prevention of accidents.

END OF SECTION 01530

PART 1 – GENERAL

1.01 SECURITY

- A. Each Contractor shall bear full responsibility for protecting equipment, materials, and tools from damage, loss and vandalism.

END OF SECTION 01540

PART 1 – GENERAL

1.01 PROJECT ACCESS

- A. All employees of the Contractor(s), employees of the subcontractor(s) of the Contractor, any and all other persons having any related activity to the Contractor including suppliers & sales representatives, Inspectors, Architect/Engineer Representatives and all other Visitors must report to the Construction Manager Field Supervisor in the CM Site Office before being permitted into the project.
- B. Each worker must register at the site office prior to entering the work area each day that worker is engaged in the required tasks for the construction of the project. The worker shall register by signing their name and issued ID number, identify the company they represent. The supervising foreman for each Contractor shall be responsible for registering all employees or tier subcontractor employees of that Contractor each day and providing that registration to the CM Field Supervisor.
- C. If Owner requested, all workers will be issued a photo identification badge and corresponding number by the Construction Manager allowing them access to the project. The ID badge shall be worn at all times. Any person failing to wear the photo ID badge will be required to leave the project immediately.
- D. Only workers performing required tasks for the construction of the project will be permitted access to the project site. Workers not actively engaged in performing required tasks will not be permitted on the project.
- E. Suppliers, sales representatives and any other person having legitimate business with the Contractor or a subcontractor of any tier to the Contractor must remain at the Site Office until the on-site supervisor for that Contractor or tier subcontractor meets with that person at the CM Site Office.
- F. Any visitor to the project must register at the CM Site Office, request permission from the CM Site Supervisor for access to the project, have their own personal protection equipment as required by the CM Site Supervisor, and be issued a "Visitor" identification badge allowing access to the project.
- G. The CM Site Supervisor may deny any person access to the project for any reason the supervisor may see fit.
- H. The Contractor agrees to adhere to this Project Access policy regardless of all other agreements.

1.02 ACCESS ROADS

- A. Contractors' access to the Project site and arrangements for periodic, temporary access for specific construction shall be made through the Construction Manager with the Owner's approval.

1.03 DELIVERY

- A. Contractors receiving deliveries to site shall request a 24-hour notice to delivery from suppliers. Contractors receiving deliveries shall ensure that their personnel are at the site to receive deliveries, and properly store them.
- B. Bidders of Divisions for supply only shall give 48 hours' notice to the Field Construction Manager so proper arrangements can be made for unloading.
- C. Any Contractors or Bid Division suppliers not giving notice shall reimburse Contractors at the site or be back charged accordingly for unloading and storage of said materials.
- D. Since site space is limited, delivery of materials shall not be made to the jobsite before progress of the job schedule calls for it, unless approved by the Construction Manager.

1.04 PARKING

- A. Contractor parking will be in an area designated by the Construction Manager on site.

1.05 SITE PLAN

- A. Refer to the Contractors use of premises (Section 01010) for further information on the use of the site.

END OF SECTION 01550

PART 1 – GENERAL

1.01 CONTROLS

- A. Control of elements such as noise, dust, water, pests, rodents, debris, pollution, and erosion are the responsibility of the Contractor(s). The Architect and Construction Manager will identify the Contractor(s) responsible for these controls in the event such controls have not been implemented. The Contractor(s) agree to abide by the assignment of responsibility by the Architect and Construction Manager regarding such controls when required. The Contractor(s) shall be responsible to perform the control measures in strict conformance to all governing codes and restrictions.

END OF SECTION 01560

PART 1 – GENERAL

1.01 *TRAFFIC REGULATIONS*

- A. Contractors shall abide by all governmental and Owner-established traffic regulations.
- B. Contractors shall use the route designated by the Owner/Construction Manager and shall comply with the requirements of Section 01550 – Access and Deliveries.

END OF SECTION 01570

PART 1 – GENERAL

1.01 DESCRIPTION

- A. No signs shall be displayed by any Contractor.

END OF SECTION 01580

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Project Field Office will be located on-site adjacent to the location of the temporary power.
- B. The Project Field Office will be used by the Owner, Construction Manager, and Architect.
- C. Project meetings and progress meetings will be held in the Project Field Office, or at another location selected by the Construction Manager when deemed necessary.

1.02 TRAILERS, ETC.

- A. Trailers to be used as Contractors' site office and storage will be permitted. Approval must be obtained from the Field Construction Manager prior to moving on-site and will be located as directed by the Construction Manager. All trailers must meet federal, state, and local electrical and fire codes.

END OF SECTION 01590

PART 1 – GENERAL

1.01 NEW MATERIAL AND EQUIPMENT

- A. Material and equipment incorporated into the Work shall:
1. Conform to applicable specification and standards,
 2. Comply with sizes, makes, types, and qualities specified or as specifically approved in writing by the Architect or Owner.
- B. Manufactured and Fabricated Products:
1. Design, fabricate and assemble in accord with the best engineering and shop practices.
 2. Manufacture like parts of duplicate units to standard sizes and gauges, to be interchangeable.
 3. Two or more items of the same kind shall be identical, by the same manufacturer.
 4. Products shall be suitable for service conditions.
 5. Equipment capacities, sizes, and dimensions shown or specified shall be adhered to, unless variations are specifically approved in writing by the Project Architect.
- C. Do not use material or equipment for any purpose other than that for which it is designed or is specified.

1.02 MANUFACTURERS INSTRUCTIONS

- A. When the Contract Documents require that installation comply with manufacturers' printed instructions, obtain and distribute copies of such instructions to parties involved in the installation, including two (2) copies to the Project Architect.
- B. Maintain one set of complete instructions at the site during installation, until project completion.
- C. Handle, install, connect, clean, condition and adjust products in strict accord with such instructions and in conformity with specified requirements.
1. Should job conditions or specified requirements conflict with manufacturers' instructions, consult with the Project Team for further instructions.
- D. Perform Work in accord with manufacturers' instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by the Contract Documents.

1.03 TRANSPORTATION AND HANDLING

- A. Arrange deliveries of products in accord with the Short Term Construction Activities Plan. Coordinate to avoid conflict with Work and conditions at the site.
1. Deliver products in undamaged condition, in manufacturers' original containers or packaging, and with identifying labels intact and legible.
 2. Immediately upon delivery, inspect shipments to assure compliance with the requirements of the Contract Documents and approved submittals, and to ensure that products are properly protected and undamaged.
- B. Provide equipment and personnel to handle products by methods, which will prevent soiling or damage to products or packaging.

1.04 STORAGE AND PROTECTION

- A. Store products in accord with manufacturers' instructions, with seals and labels intact and legible.
 - 1. Store products subject to damage by the elements in weather tight enclosures.
 - 2. Maintain temperature and humidity within the ranges required by Manufacturers' instructions.
- B. Arrange storage in a manner to provide easy access for inspection. Make periodic inspections of stored products to assure that the products are maintained under specific conditions, and are free from damage or deterioration.
- C. Protection after Installation:
 - 1. Provide substantial coverings as necessary to protect installed products from damage, traffic, and subsequent construction operations. Remove the coverings when they are no longer needed.

1.05 SUBSTITUTIONS AND PRODUCT OPTIONS

- A. Products List:
 - 1. Before commencing Work, submit to the Construction Manager a complete list of major products proposed to be used, with manufacturers' and suppliers' names, product names, model numbers, and where applicable, names of installing subcontractors. (Refer to Section 00680.)
- B. Contractor's Options:
 - 1. For products specified only by reference standard, select any product meeting that standard.
 - 2. For products specified by naming several products or manufacturers, select any one of the products or manufacturers named, which complies with the specifications.
 - 3. For products specified by naming one or more products or manufacturer and "or equal," Contractors must submit requests for substitutions for any product or manufacturer not specifically names.
 - 4. For products specified by naming only one product and manufacturer, there is no option.
- C. Substitutions:
 - 1. The Project Team will consider written requests from Contractors for substitution of products.
 - 2. Submit a separate request for each product, supported with complete data, with drawings and samples, as appropriate, including:
 - a. Comparison of the qualities of the proposed substitution with that specified,
 - b. Changes required in other elements of the Work because of the substitution,
 - c. Effect on the construction schedule,
 - d. Cost data comparing the proposed substitution with the product specified,
 - e. Any required license fees or royalties,
 - f. Availability of maintenance service, and source of replacement materials.
 - 3. Architect will be the judge of the acceptability of all proposed substitutions.
 - 4. Any request for a substitution constitutes a representation that the Contractor:
 - a. Has investigated the proposed product and determined that it is equal to or superior in all respects to that specified,
 - b. Will provide the same warranties or bonds for the substitution as for the product specified,
 - c. Will coordinate the installation of accepted substitutions into the Work, and make such other Changes as may be required to make the Work complete in all respects,
 - d. Waivers all claims for additional costs which may subsequently become apparent.
 - 5. The Construction Manager will review requests for substitutions and the Architect's determination of acceptability with reasonable promptness, and will notify Contractors in writing of his decisions regarding requested substitutions.

END OF SECTION 01600

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Each Contractor shall comply with requirements stated in the General Conditions and in the Specifications for procedures in closing out the Work.

1.02 SUBSTANTIAL COMPLETION AND FINAL INSPECTION PROCEDURE

- A. When a Contractor's work is 98% complete, and in compliance with Section 10 "Completion" of the Contract, the Contractor will be provided with a Certificate of Substantial Completion, after proper certification by the Construction Manager and Architect. A list of Work in need of correction and a list of incomplete Work will be forwarded to the Contractor. Both the Construction Manager and the Architect will have input to each list.
- B. Each Contractor will be allowed two weeks to complete the items on both lists beginning from the date stipulated on the Certification of Substantial Completion. The Contractor shall begin completion and correction activities within seven (7) days of receipt of the lists and complete all activities within the two weeks period specified. Contractors failing to perform in accord with these time parameters will be subject to the provisions of the Additional Conditions, and the Owner will have the right to carry out the corrective Work and/or complete the Work. The cost of correction or completion will be deducted from the Contractor's contract amount.
- C. By the act of submitting the Certificate of Substantial Completion for execution by the Construction Manager and the Architect, the Contractor represents that they have:
1. Reviewed the Contract Documents.
 2. Inspected their Work for compliance with the Contract Documents.
 3. Completed their Work in accord with the Contract Documents and all pertinent submittals.
- D. They further represent that:
1. Equipment and systems have been tested in the presence of the Owner's representative and are operational.
 2. Their Work is completed and ready for final inspection.

1.03 CONTRACTOR'S CLOSEOUT DOCUMENTS

- A. Upon Substantial Completion, the Contractor shall submit the following:
1. Evidence of compliance with requirements of governing authorities, including Certificates of Inspection.
 2. Operating and Maintenance Data, Product Data and Instructions to the Owner's personnel.
 3. Warranties and Bonds
 4. Spare Parts and Maintenance Materials
 5. Evidence of Payment and Release of Liens
 6. Certification of Substantial Completion.
 7. As Built Drawings
 8. Contractor Hazardous Materials Compliance Affidavit
 9. Asbestos Free Affidavit
 10. Letter from Contractor's Insurance carrier that a Certificate of Insurance shall be sent to the Construction Manager at renewal time for a two (2) year period after substantial completion.
- B. One (1) hard copy set along with one (1) electronic set of close out documents shall be submitted to the Construction Manager upon Substantial Completion.

- C. All Close Out documents must be turned in within two weeks of substantial completion. Final payment to the contractor will not be released until all close out documents have been received and approved and/or punch list items have been completed and signed off.

1.04 FINAL APPLICATION FOR PAYMENT

- A. Each Contractor shall submit the final Application for Payment in accord with the procedures and requirements stated in the General Conditions of the Contract for Construction.
- B. Refer to Sections 01720, 01730, and 01740 for further information regarding submittals.

END OF SECTION 01700

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Each Contractor shall execute cleaning during the progress of the Work, and at completion of the Work, as required by the Additional Conditions and the Specifications.

1.02 DISPOSAL REQUIREMENTS

- A. Conduct cleaning and disposal operation to comply with codes, ordinances, regulation, and anti-pollution law.

PART 2 – PRODUCTS AND EQUIPMENT

2.01 MATERIALS

- A. Use only those cleaning materials which will not create hazards to health or property, and which, will not damage surfaces.
- B. Use only those cleaning materials and methods recommended by the manufacturer of the surface material to be cleaned.
- C. Use cleaning materials only on surfaces recommended by the cleaning material manufacturer.
- D. Each Contractor shall provide his/her own cleaning equipment.
- E. Each Contractor shall cooperate with the Owner and the Construction Manager regarding clean up.

PART 3 – EXECUTION

3.01 HOUSEKEEPING AND CLEAN-UP

- A. Each Contractor shall execute daily housekeeping to keep their Work, the site, and adjacent properties free from accumulations of waste materials, rubbish, and windblown debris resulting from construction operations.
- B. Each Contractor is financially responsible for his/her clean-up operations. Clean up must be timely as well as thorough in order to meet safety regulations and permit other Contractors to perform without hindrance from dirt and debris. The Construction Manager will coordinate Project housekeeping and take appropriate steps to maintain clean, safe working conditions. **Contractors failing to meet housekeeping requirements will be charged for services arranged by the Construction Manager.**

3.02 DUST CONTROL

- A. Clean interior spaces prior to the start of finish painting and continue cleaning on an as-needed basis until painting is finished.
- B. Schedule operations so that dust and other contaminants resulting from cleaning process will not fall on wet or newly coated surfaces.
- C. Clean up must be performed after each task is done.
- D. Each Contractor is responsible for developing a plan for dust control and debris removal for each task prior to starting.

3.03 FINAL CLEANING

- A. Each Contractor shall employ qualified persons for cleaning.
- B. Installing Contractors shall remove grease, mastic adhesives, dust, dirt, stains, finger-paints, labels, and other foreign materials from exposed interior and exterior surfaces, for acceptance by the Construction Manager, prior to leaving the site.
- C. Prior to final completion or Owner occupancy, each Contractor shall conduct an inspection of exposed interior and exterior surfaces and all work areas, to verify that the entire Project is clean.

END OF SECTION 01710

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Construction Manager will make available a set of Record Documents of the following:
1. Drawings.
 2. Specifications.
 3. Addenda.
 4. Change Orders and other Modifications to the Contracts.
 5. Written Instructions.
 6. Approved Shop Drawings, Product Data and Samples.
 7. Field Test Records.
 8. Construction Photographs.

1.02 RECORD DRAWINGS

- A. As a condition of final payment, each Contractor shall mark any and all installation information that differs in location, size, dimension or type from that shown on the Construction Documents on a single set of Construction Documents. Location of items of work such as electrical conduits, junction boxes, fire alarm cable, data cable, etc., that are not specifically shown on the Construction Documents shall be included in the Record Drawings. Locations of all work installed under concrete slabs shall be noted with accurate dimensions and the depth below finish floor indicated.

1.03 SUBMITTAL

- A. At Contract Closeout, each Contractor shall deliver one (1) hard set along with (1) electronic set of Record Documents, as indicated in 01700.1.03B to the Construction Manager, for delivery to the Owner.
- B. Each Contractor shall accompany their Record Document submittal with a transmittal letter in duplicate, containing:
1. Date.
 2. Project and Phase designation.
 3. Contractor's name and address.
 4. Bid Division name and number
 5. Title and number of each Record Document.
 6. Signature of Contractor of his authorized representative.
- D. The receipt of such Record Documents by the Construction Manager or the Owner shall not be a waiver of any deviations from the Contract Documents.

END OF SECTION 01720

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Each Contractor shall compile product, data, and related information appropriate to the Owner's maintenance and operation of products furnished under their contract.
- B. Each Contractor shall instruct the Owner's personnel in the maintenance of products and in the operation of equipment and systems.

1.02 MAINTENANCE AND OPERATING MANUALS

- A. Prior to Substantial Completion, each Contractor shall submit to the Construction Manager one (1) hard set along with one (1) electronic set of all comprehensive maintenance and operating materials, presenting complete directions and recommendations for the proper care and maintenance of all visible surfaces, as well as maintenance and operating instructions for all equipment items which the Contractor has provided or installed.
- B. Operating instructions shall include all necessary printed directions for correct operation, adjustment, servicing, and maintenance of movable parts. Also included shall be suitable parts lists and diagrams showing parts location and assembly.

1.03 INSTRUCTION OF OWNER'S PERSONNEL

- A. Prior to final inspection or acceptance, each Contractor shall fully instruct the Owner's designated operating and maintenance personnel in the operation, adjustment, and maintenance of all products, equipment, and systems.
- B. Manufacturer's operating and maintenance manuals shall constitute the basis of instruction. Each Contractor shall review the contents of such manuals with the Owner's personnel in full detail to explain all aspects of operation and maintenance.

END OF SECTION 01730

PART 1 – GENERAL

1.01 DESCRIPTION

- A. The Contractor shall provide a written Guarantee for all labor, material, equipment and workmanship for a minimum period of two (2) years from the date of Substantial Completion of the project (or longer period of time if stipulated in the specifications) covering the work of their entire Bid Division(s).
- B. The Contractor shall also provide a written Warranty covering all work of their entire Bid Division(s) for a minimum period of two (2) years from the date of final project completion (or longer period of time if stipulated in the specifications).
- C. The Contractor shall further provide all supplier, manufacturer, subcontractor and other written guaranties and warranties covering the work of the entire Bid Division(s) as required by the project specifications.

1.02 REQUIREMENTS

- A. The Contractor shall provide one (1) hard copy along with one (1) electronic copy of all written Guaranties and Warranties.
- B. The Contractor shall review all guaranties and warranties to assure of their compliance with all conditions of the contract.
- C. The Contractor shall assemble all guaranties and warranties, fully executed by each respective contractor, supplier, manufacturer and subcontractor and submit to the construction manager within two weeks of the date of Substantial Completion of the project.
- D. If the Owner elects to permit equipment and component parts of equipment into service during the progress of construction and has issues such permission in writing, all such guaranties and warranties must be submitted to the construction manager within two weeks after inspection and acceptance.
- E. For items of work where acceptance is delayed materially beyond the Date of Substantial Completion, the Contractor shall provide revised guaranties and warranties listing the acceptance date as the start of the guaranty or warranty period.

END OF SECTION 01740

PART 1 – GENERAL

1.01 DESCRIPTION

- A. It shall be the Contractor's responsibility to ensure that the Owner is notified of any hazardous materials brought to the site.
- B. In compliance with Michigan State Law there is to be no smoking anywhere on the project site or owner's property or use of any tobacco product at any time.
- C. The Contractor agrees to disallow any known carcinogens to be brought onto the jobsite at any time.
- D. The Contractor will not permit any employee to be in possession of any firearm or ammunition when on school property either on the worker's person or in the worker's vehicle. It is illegal to possess firearms or ammunition on your person or in a vehicle on school property at any time.

1.02 REQUIREMENTS

- A. The Contractor shall provide:
 - 1. One (1) hard copy of each Safety Data Sheet (SDS) for each of the hazardous materials used on the site.
 - 2. Certification that the Contractor (and their subcontractors) has instructed the persons using the hazardous materials in their proper use.
 - 3. For removal of any unused hazardous materials in their proper use.
 - 4. Certification that no asbestos containing materials are being used or brought onto the site by signing and notarizing the asbestos free certificate, which follows as page 3 of this Section.
- B. The Contractor shall utilize employee(s) that have been trained and certified for Hazardous Material Awareness specifically for asbestos and lead awareness.
- C. The Contractor has the responsibility to make themselves, their employees, and their subcontractors aware of any hazardous materials in the area of their specified work.
- D. The above requirements must be fulfilled, in writing, at or prior to a pre-construction meeting by filling out the Contractor Hazardous Materials Compliance Form, which is page 2 of this section.
- E. Standard safety practices and regulations as supplied by all governmental agencies will be in effect.
- F. A list of district SDS sheets is available on request.
- G. The Contractor shall submit a completed Contractor Hazardous Materials Compliance Affidavit and Asbestos-Free Affidavit certifying that no hazardous material has been incorporated into the Project as part of the documentation for Contract Close-Out.

2.01 COMPLIANCE

- A. Compliance with EPA AHERA for Asbestos.
 - 1. The Contractor must adhere to all EPA AHERA and Michigan State Asbestos Regulations for asbestos and other hazardous materials.

B. Compliance with Lead-Containing Materials.

1. All Contractors, Subcontractors and Sub-subcontractors shall adhere to the Environmental Protection Agency (EPA) lead-based paint regulation titled the "Renovation, Repair and Painting (RRP) Rule". Included under this law are "Child Occupied Facilities" (COFs). COFs encompass locations of a pre-1978 constructed buildings where children under age of six (6) regularly visit, such as kindergarten rooms, 1st grade classrooms, applicable restrooms, preschools and day care centers. Therefore portions of each pre-1978 constructed school building falls under the RRP Rule.
2. Any contractor working on this project who disturbs painted surfaces in COF spaces shall ensure that they adhere to all aspects of the RRP Rule. This includes but is not limited to meeting the requirements for being a Certified Firm, having a Certified Lead Renovator involved and following applicable lead safe work practices.
3. Furthermore, all Contractors shall be responsible to comply with all applicable Federal and Michigan State lead regulations including, but not limited to, 29 CFR Part 1926.62 of the OSHA Lead Construction Standard, (Part 603 of the Michigan State Standards). All costs associated with regulatory compliance shall be borne by the Contractor.

CONTRACTOR HAZARDOUS MATERIALS COMPLIANCE AFFIDAVIT

PROJECT NAME: _____

TITLE: _____

Contractor: _____

Address: _____

Contractor's Representative: _____

Phone: _____ Fax: _____

Job Location: _____

This document certifies that the Contractor and any subsequent Contractors have complied with the terms set forth in the requirements for **Mount Pleasant Public Schools** as they pertain to hazardous materials.

The SDS's are attached for all hazardous materials which will be brought to **Mount Pleasant Public Schools**.

There are _____ SDS's attached.

The Contractor's employees (including subcontractors) have received appropriate instructions pertaining to the use and handling of hazardous materials.

The Contractor has been informed of hazardous materials in the area of the specified work.

Signature of Contractor's Representative

Date: _____

Received by: _____

Date: _____

ASBESTOS FREE AFFIDAVIT

Contractor: _____

Company Name: _____

Street: _____ City: _____ State: _____ Zip: _____

Project: _____

Bid Division: _____

Name of Building(s) in which work was performed:

Certificate Statement:

I _____, representing and having authority for
_____, hereby certify that any and all products/materials
that will be or have been installed/introduced in the above mentioned buildings, are asbestos free or less
that one percent (1%) asbestos by weight.

Name (printed): _____ Position: _____

Signature: _____

Date: _____

Notary Public: _____

My Commission Expires: _____

END OF SECTION 01800

PART 1 – GENERAL

1.01 NOTICE

- A. This notice is to formally advise you, per AHERA Requirements, that all buildings may have asbestos containing materials present. All areas testing positive for asbestos are documented in booklets located in the **Mount Pleasant Public Schools**.

1.02 DESCRIPTION

- A. All thermal insulation such as pipe wrap, especially joints, should be assumed to contain asbestos. Contractors are cautioned not to attempt removal of these materials without first notifying the Owner.

AHERA Notification and Contractor Compliance Affidavit

Project Name: Mount Pleasant Public Schools – Bid Pack No. 5 High School Gym Wall Repair
Project #: A25900
Owner: Mount Pleasant Public Schools
Address: 720 North Kinney Avenue, Mt Pleasant, MI 48858

This notice is to formally advise you, per AHERA Requirements, that all buildings may have existing asbestos containing materials. All areas testing positive for asbestos have been documented in the owner's asbestos inspection report available for inspection at the owner's main office. All areas currently testing positive for asbestos are documented in the attached Three-Year Re-Inspection Asbestos plan report that has been provided by: Mount Pleasant Public Schools.

All thermal insulation such as pipe wrap, especially joints, should be assumed to contain asbestos. Contractors are cautioned not to attempt removal of these materials without first notifying the Owner.

I / We _____ doing business as _____ acknowledge receipt of the Three Year Re-Inspection Asbestos plan for the above mentioned project(s) as provided by Mount Pleasant Public Schools and certify that all employees of this contractor shall have been trained in the MIOSHA Two-Hour Asbestos Awareness program. It is this Contractor's responsibility to inform any subcontractors or suppliers of this information and assume all responsibility for such notification.

Company

State of _____ County of _____

Name

Subscribed and sworn to before me this _____

day of _____

Title

Notary Public: _____

Address

My Commission Expires: _____

City, State, Zip

Seal

END OF SECTION 01805



**Three Year
Asbestos
Re-Inspection
Report**

For

**Mt. Pleasant Public Schools
720 North Kinney Avenue
Mt. Pleasant, Michigan 48858**

Prepared By:

**Northern Analytical Services, LLC.
PO Box 1604
Big Rapids, Michigan 49307**

**Project No.: 230212
Report Date: February 21, 2024**

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Introduction

The following Three-Year Asbestos Re-Inspection Report was completed by Northern Analytical Services, LLC. (NAS) for Mt. Pleasant Public Schools located at 720 North Kinney Avenue, Mt. Pleasant, Michigan 48858. Re-inspection activities were limited to the known or assumed asbestos containing materials identified in the previous re-inspection report.

In accordance with the US EPA under the National Emissions Standard for Hazardous Air Pollutants (NESHAPs), building owners and their contractors are responsible for having building materials tested for asbestos content prior to disturbance. This re-inspection is not intended to satisfy NESHAP requirements; Additional inspection and testing services will be necessary before performing renovations or other activities that will otherwise disturb building materials.

In accordance with the Asbestos Hazard Emergency Response Act (AHERA), all buildings owned and/or operated by K-12 school districts are required to be incorporated in the district's management plan. These regulations allow for buildings, or portions of buildings, constructed after 1988 to either be inspected for the presence of asbestos containing materials (ACM) or be accompanied by a statement from the architect/construction manager that no ACM was installed during construction activities. It is recommended that acceptable statements be obtained and attached to this report for any future renovation/construction activities.

Mt. Pleasant Public Schools
 3 Year Re-Inspection Report
 Project No.: 230212
 Report Date: February 21, 2024

This re-inspection included the following buildings:

School Building Number	Building	Address	Re-Inspection Date
1	Mt. Pleasant High School	1155 South Elizabeth Street, Mt. Pleasant, Michigan 48858	10/4/2023
2	Mt. Pleasant Middle School (Former West Intermediate)	440 South Bradley Street, Mt. Pleasant, Michigan 48858	10/4/2023
3	Pullen Elementary School	251 South Brown Street, Mt. Pleasant, Michigan 48858	10/4/2023
4	Ganiard Elementary School	101 South Adams Street, Mt. Pleasant, Michigan 48858	10/4/2023
5	Mary McGuire Elementary School	4883 East Crosslanes Street, Mt. Pleasant, Michigan 48858	10/4/2023
6	Vowles Elementary School	1560 South Watson Street, Mt. Pleasant, Michigan 48858	Not Inspected
7	Francher Elementary School	801 South Kinney Avenue, Mt. Pleasant, Michigan 48858	10/4/2023
8	Rosebush Elementary School	3771 North Mission Road, Rosebush, Michigan 48878	10/4/2023
9	Maintenance & Transportation	405 South Bradley Street, Mt. Pleasant, Michigan 48858	10/4/2023
10	Oasis Alternative Education	3480 South Isabella Road, Mt. Pleasant, Michigan 48858	10/4/2023

Company Statement

This Re-inspection Report and Management Plan update was prepared by NAS to assist Mt. Pleasant Public Schools in meeting the 3 Year Re-Inspection requirements set forth by AHERA.

In preparation of this document, every attempt has been made to recommend the least burdensome response actions consistent with protecting human health and the environment as specified by AHERA.

AHERA states that the management plan is the responsibility of the owner/operator of the facility, also called the Local Education Agency (LEA); in this case the LEA is Mt. Pleasant Public Schools. It is the responsibility of the LEA to read and understand the response actions, their obligations, timetables, and to determine if these actions are reasonable actions prior to signing the owner/operator statement. Any changes or additions to this document without written authorization from NAS will automatically void the inspection and management plan statements.

If the LEA decides to make changes to this report without authorization from NAS or decides to make changes which conflict with the advice and/or professional judgment of NAS, a separate statement shall accompany the management plan and should specify which recommended actions the owner/operator has decided to change, the actual changes and rationale for the changes. NAS will not accept any responsibility for changes to any response actions that weren't stated previously by NAS.

Asbestos Background

Asbestos is a naturally occurring mineral. It is distinguished from other minerals by the fact that its crystals form long, thin fibers. Deposits of asbestos are found throughout the world. The primary sites of commercial production are Canada, China, Brazil, Zimbabwe, and South Africa. Asbestos is also mined commercially in limited quantities in the United States, in California and Vermont.

Asbestos has been used in thousands of products. Collectively, these are referred to as asbestos-containing material (ACM). Asbestos gained wide-spread use because it was plentiful, readily available and low in cost. Because of its unique properties – fire resistance, high tensile strength, poor heat and electrical conductivity and being generally impervious to chemicals attacks – asbestos proved well-suited for many uses in the construction trades.

Asbestos-related diseases are chronic diseases and symptoms usually do not appear for 15 to 40 years after initial exposures to airborne asbestos fibers. In nearly all cases, many years of exposure to high levels of airborne ACM is necessary for personnel to contract asbestos-related diseases.

The primary exposure route is inhalation. Inhaled fibers may become embedded in the bronchial tubes or alveoli, or they may pass through to the pleura – the lining of the chest cavity. Asbestos-related diseases include asbestosis, lung cancer, mesothelioma and gastrointestinal cancers.

Survey Procedures

Survey procedures were conducted by a State of Michigan accredited Asbestos Building Inspector in accordance with AHERA requirements.

To complete this survey, the inspector(s) reviewed the most recent re-inspection report and performed an inspection of the materials identified in that report as either known or assumed to be asbestos containing. During the inspection, the inspector visually inspected materials for damage or the potential for damage.

NAS did not conduct a thorough inspection of the building(s) to determine the presence, location, or quantity of materials suspected to contain asbestos. NAS only inspected the materials identified in the previous re-inspection. Prior to performing any renovation work NAS strongly recommends a thorough building inspection be performed.

Unknown Suspect Materials

It is likely that there are suspect asbestos containing materials present that have not been identified in this re-inspection or in previous AHERA inspections. Keep in mind

that in 1988 when AHERA was enacted many inspectors were new and likely missed some of the suspect materials. Additionally, new building materials have likely been added since the original AHERA inspection. It is a common misconception that asbestos has been banned, it is still legal to sell many types of building materials yet today that contain asbestos.

In addition to unknown/untested materials, many known asbestos containing materials have been removed over the years through renovation or maintenance activities. It is possible that the conditions at the time work was completed would not allow for complete removal and some portion of the ACM remain. The following are examples of this:

- Cabinets and unit vent heaters cover old floor tile.
- Floor tile was removed but the asbestos containing mastic remains and was covered with new flooring.
- Pipe insulation was abated where exposed but the asbestos insulation extends into a wall cavity.
- Spray applied acoustical ceilings were scrapped but the non-asbestos plaster substrate remains along with asbestos containing overspray above it.
- Spray applied fire proofing was removed but residual overspray remains in wall cavities and other hidden areas.

To help ensure suspect ACMs are not unknowingly disturbed it is crucial that the NESHAP regulations are closely followed and every space be thoroughly inspected and every building material be tested prior to disturbance. This report does not cover unknown or hidden suspect materials.

Facility Recommendations

Based on the findings of the Inspector, the following general site recommendations have been made:

Careful review of the included Response Action Report should be conducted by the Districts Designated Person. The reports titled Material Report will provide a detailed description of the suspect ACM found, asbestos content, friability, type of asbestos present, and the total quantity found in each building. Reports titled Response Action Report will provide a description of what ACMs were found in each room, comments on the specific location and damage if any was observed and response actions to be taken for each of the known or assumed ACM.

For materials that have been identified as damaged, it is recommended that a licensed abatement contractor be contacted to make any repairs or to conduct any removal activities needed.

In accordance with CFR 1910.1200, it is recommended that each ACM be properly labeled as asbestos containing. Warning labels should contain the following information:

Danger
Contains Asbestos Fibers
Avoid Creating Dust
Cancer and Lung Disease Hazard

Labels should be placed in various locations on each material in a manner to avoid accidental disturbance.

Prior to any renovation or maintenance activity, review the Management Plan to ensure materials being impacted by the renovation/activity do not contain asbestos. Should materials likely to be disturbed not be accurately described in the inspection reports, contact a licensed Asbestos Building Inspector to collect samples. Do not disturb materials not described in the Management Plan or materials identified as asbestos containing or assumed to contain asbestos.

If a disturbance occurs, either accidental or planned (abatement project), area air monitoring should be conducted to establish the airborne concentration of asbestos fibers present. Both State and Federal Agency strictly govern disturbance activities and exposure to employees and building occupants. Proper air sampling can determine if area contamination has occurred as well as help assure employees and building occupants in adjacent areas are not being exposed. In addition to area monitoring, AHERA requires third party area air clearance testing whenever a disturbance occurs.

Records of future renovation activities should be kept. These records should include what materials were disturbed and to what extent. Also, information on replacement materials is vital in keeping this survey up to date. Often Architects or Design Engineers can provide legal statements indicating that replacement materials do not contain asbestos. Other documentation of this sort would be material or product safety data sheets. If proper documentation is not available for suspect ACM's located in building constructed prior to 1986, sample collection and analysis is required by State and Federal Regulations.

Both CFR 1910.110 and CFR 1926.110 require that employers provide awareness training to all employees that are expected to come in contact with or required to work in the general vicinity of ACM. In accordance with regulatory requirements, it is recommended that all housekeeping and maintenance employees receive, at a minimum, 2-hour asbestos awareness training. In addition, employees that are required to conduct minor cleanup projects shall be provided additional training.

Management Planner's Recommendations

All of the ACM or suspect ACM identified in this report was noted by the inspector as being in good condition unless specifically mentioned below under each building name. Continue the facility's operations and maintenance program and conduct periodic assessments (at least every 6 months) of all known or assumed asbestos containing materials.

The following recommendations (not all inclusive, see Response Actions for additional recommendations) are based on the inspector's findings, laboratory results and the management planner's opinion. Please note that all work described below must be completed either by in house properly trained 16-hour asbestos operations and maintenance personnel or a licensed asbestos abatement contractor. Third-party air clearance testing should be conducted following any repair/removal actions described below:

School Building Number 1 - Mt. Pleasant High School

1. All ACM observed during this re-inspection was found to be in good condition.
A) Room 705 (Auto Lab) – 1 damaged mudded roof drain needs to be removed and 1 loose mudded pipe fitting needs to be repaired/removed.

School Building Number 2 - Mt. Pleasant Middle School (Former West Intermediate)

1. All ACM observed during this re-inspection was found to be in good condition.
A) Custodian Office – 1 damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.

School Building Number 3 - Pullen Elementary School

1. All ACM observed during this re-inspection was found to be in good condition.

School Building Number 4 - Ganiard Elementary School

1. All ACM observed during this re-inspection was found to be in good condition.
A) Room 134 – 1 damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.

School Building Number 5 - Mary McGuire Elementary School

1. All ACM observed during this re-inspection was found to be in good condition.

School Building Number 6 - Vowles Elementary School

1. No ACM was identified in the previous re-inspection, therefore this building was excluded from the current re-inspection.

School Building Number 7 - Francher Elementary School

1. All ACM observed during this re-inspection was found to be in good condition.
 - A) Kitchen – 1 damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**
 - B) Room 112 – 1 damaged fire rated door needs replaced. NAS recommends replacement, damage could have potentially compromised the fire rating of the door.**

School Building Number 8 - Rosebush Elementary School

1. All ACM observed during this re-inspection was found to be in good condition.

School Building Number 9 - Maintenance & Transportation

1. All ACM observed during this re-inspection was found to be in good condition.

School Building Number 10 - Oasis Alternative Education

1. All ACM observed during this re-inspection was found to be in good condition.

Signature Page

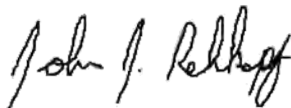
Inspection Statement

The person(s) listed below hereby attest(s) that he/she/they did inspect, assess and perform sampling of suspect asbestos containing building materials (ACBM) at the buildings/portions of buildings listed in this report in accordance with AHERA regulations set forth in 40 CFR Section 763.85(a):

Name	Accreditation Number	Signature	Date
Parker Denike	A60087		2/21/2024

Management Plan Statement

The person(s) listed below hereby attest(s) that he/she/they did review the asbestos re-inspection data collected by the asbestos building inspector for this re-inspection. Any recommendations are based on the above referenced inspection in accordance with AHERA regulations set forth in 40 CFR Section 763.93 (12), (ii).

Name	Accreditation Number	Signature	Date
John Rehkopf	A16809		2/21/2024

Mt. Pleasant Public Schools
3 Year Re-Inspection Report
Project No.: 230212
Report Date: February 21, 2024

Local Education Information

Local Education Agency (LEA): Mt. Pleasant Public Schools
LEA Address: 720 North Kinney Avenue, Mt. Pleasant, Michigan 48858
Designated Person: Josh Rhodes
Designated Person Address: 720 North Kinney Avenue, Mt. Pleasant, Michigan 48858
Designated Person Telephone: 989-824-0505

Training Certification

The Designated Person(s) listed above attests that he/she/they received adequate training covering the Local Education Agency's (LEA) responsibilities for Designated Person in accordance with 763.93 (e)(4). This training included:

- The health effects of asbestos exposure
- Detection, identification and assessment of ACBM
- Options for controlling ACBM
- Asbestos management programs
- Relevant State and Federal regulations regarding asbestos
- The LEA/Designated Person responsibilities.

Training was provided by: Northern Analytical Services, LLC.

Under the course titled: Asbestos Designated Person Training

on: 11/27/2017, and was 2 hours in length.

Designated Person Signature: _____
Josh Rhodes Date

LEA Responsibility Certification

The Designated Person listed above certifies that the general LEA responsibilities as required by 763.84 have been or will be satisfied. This includes the following actions:

1. Anyone who conducts any inspections, re-inspections or abatement projects; develops or updates management plans; or performs operations and maintenance that will disturb ACM are licensed asbestos professionals.
2. All custodial and maintenance staff have received two-hour asbestos awareness training and 14 hours of operations and maintenance training (along with annual refreshers) as described in AHERA.
3. The parents, teachers and employee organizations are notified on an annual basis of all inspections, response actions and periodic surveillance that are planned or in progress in regard to asbestos in each school building.
4. Short-term workers (e.g., telephone repair workers, utility workers or exterminators) are informed of the locations of ACBM in school buildings.
5. Warning signs are posted immediately adjacent to ACM in routine maintenance areas that state:

Danger. Asbestos. Hazardous.
Do Not Disturb
Without Proper Training and Equipment

6. Parents, teachers and employee organizations are notified in writing on an annual basis of the availability of the school's asbestos management plan.
7. The management plans are available for inspection in each school and the district office.
8. Records are properly maintained.
9. Each management plan contains a statement, signed by the designated person that certifies the LEA's responsibilities have been or will be met. The statement needs to be amended for each new designated person chosen by the LEA.
10. Re-inspections are conducted at least once every three years after a management plan is in effect.

As the Designated Person for Mt. Pleasant Public Schools, I will ensure that the above items are completed in accordance with AHERA.

Signature of Designated Person

Josh Rhodes

Date

Annual Notification

Annual AHERA Notifications to Employees, Students, and Parents.

The Asbestos Hazard Emergency Response Act (AHERA) requires schools to "ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress (763.84(c)). Such notification must be done in writing and a copy placed in the management plan. Suggested notification methods may be through the publication of an article in a school district newsletter or through a separate written notice distributed to staff and sent home to a student's parent or legal guardian.

In addition, schools "shall make management plans available for inspection to representatives of EPA and the State, the public, including parents, teachers, and other school personnel within 5 working days after receiving a request for inspection (763.93(g)(3)). Furthermore, "the local education agency shall notify in writing parent, teacher, and employee organizations of the availability of management plans and shall include in the management plan a description of steps to notify such organizations, and a dated copy of the notification. In the absence of any such organizations for parents, teachers, or employees, the local education agency shall provide written notice to that relevant group of the availability of management plans and shall include in the management plan a description of the steps taken to notify such groups and a dated copy of the notification" (763.93(g)(4).

The LEA asbestos designated person for the school district is to ensure that these AHERA required notifications occur each school year. The school may determine when to do AHERA notification, as long as it occurs at least once each school year.

A copy of the annual notification can be found in Appendix A.

Appendix A

Notifications & Forms

Annual AHERA Notification

Mt. Pleasant Public Schools has an Asbestos Management Plan in place in accordance with the Asbestos Hazard Emergency Response Act (AHERA). The plan is available for review in the main office. Please call Mr. Josh Rhodes at (989-824-0505) to view during normal operational hours, 8AM to 4PM Monday through Friday with the exception of holidays.

In accordance with AHERA requirements, Mt. Pleasant Public Schools has contracted Northern Analytical Services, LLC. (NAS) to perform all re-inspections of known asbestos containing materials present, to prepare written project designs for all response actions and to perform all post response action testing. As part of this plan, NAS performed the most recent 3-year re-inspection on 10/4/2023.

Over the past 12 months, the following materials were removed from our buildings:

In the next 12 months we are planning to remove the following materials from our buildings:

Prior to conducting any work that disturbs asbestos, Mt. Pleasant Public Schools will notify all parents and building staff in advance.

Sincerely,

Josh Rhodes
Mt. Pleasant Public Schools

Asbestos Removal Notification

In an effort to provide our students with the best learning environment possible, Mt. Pleasant Public Schools is planning a building improvement project that will require the disturbance of asbestos containing materials. We have retained the services of a State of Michigan accredited Asbestos Project Designer to prepare written specifications to help ensure the work is completed in the safest manner possible. All removal work will be performed by a State of Michigan licensed asbestos abatement contractor and overseen by a qualified third-party air quality testing firm.

Third party air clearance testing will be performed before the areas affected by the asbestos removal are returned to normal use.

Asbestos Removal is scheduled to be removed from the following buildings:

Building Name	Start Date	Completion Date

Please contact our District's Designated Person, Mr. Josh Rhodes at 989-824-0505 with any questions.

Asbestos Acknowledgement

Asbestos containing materials (ACM)'s are located in various areas of Mt. Pleasant Public Schools. All short-term workers (anyone performing work that may disturb any building materials) must first have received asbestos awareness training within the past 12 months and be made aware of the types, locations, and quantities of ACM present in our District. Training shall be in accordance with Part 602 Asbestos Standards for Construction-1926.1101, be at least 2 hours in length, and include the contents of our District's asbestos building survey.

A copy of the asbestos survey reports can be obtained by contacting the Asbestos Designated Person for Mt. Pleasant Public Schools, Mr. Josh Rhodes at 989-824-0505.

All short-term workers must return a signed copy of this form to Mr. Rhodes before disturbing any building materials.

By signing this form _____ of _____ acknowledges there is asbestos present in various areas of Mt. Pleasant Public Schools and accepts all liability associated with repairing, cleaning, and testing should any representative of our company, or our sub-contractor(s) improperly disturb any asbestos containing material. In addition, I attest that all of our employees, sub-contractors and their employees who perform services at Mt. Pleasant Public Schools that causes the disturbance of building materials have been provided asbestos awareness training within the past 12 months that specifically included information regarding the presence, location, and quantity of ACM at Mt. Pleasant Public Schools.

Company Representative Legally Authorized to Sign this form:

Signature	Title	Date
-----------	-------	------

By signing below, you are attesting that you have received asbestos awareness training within the past 12 months that included information regarding the presence, location, and quantity of ACM at Mt. Pleasant Public Schools.

[illegible]

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

1-Mt. Pleasant High School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

2-Mt. Pleasant Middle School (Former West Intermediate)

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

3-Pullen Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

4-Ganiard Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

5-Mary McGuire Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

6-Vowles Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

7-Francher Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

8-Rosebush Elementary School

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

9-Maintenance & Transportation

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Local Education Agency (LEA) Name

Mt. Pleasant Public Schools

School Building Number/Name

10-Oasis Alternative Education

Periodic Surveillance

1. Name of Person Performing the Surveillance:

Last

First

M.I.

--	--	--

2. Date of the Surveillance:

--

3. Description of any Changes in the Condition of the Materials:

--

Appendix B

Inspection Data

Mt. Pleasant High School

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Mt. Pleasant High School

1155 South Elizabeth Street

Mt. Pleasant, MI 488

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Floor Tile & Mastic - 12" - tan with white flecks	Misc.	No	No	No	---	None Detected	19777	Sq.Ft.
2	Fire Rated Door - wood with three windows	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	900	Sq.Ft.
3	Caulk - soft white - on steel door frame with sidelight	Misc.	No	No	No	---	None Detected	98	Sq.Ft.
4	Caulk - soft white on steel door frame	Misc.	No	No	No	---	None Detected	88	Sq.Ft.
5	Fire Rated Door - solid wood	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1240	Sq.Ft.
6	Fire Rated Door - wood with slit window (3 ft)	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	320	Sq.Ft.
7	Caulk - soft white on steel door transom	Misc.	No	No	No	---	None Detected	21	Sq.Ft.
8	Ceramic Tile & Grout - 1" tan	Misc.	No	No	No	---	None Detected	546	Sq.Ft.
9	Floor Tile & Mastic - under carpet	Misc.	Category I Non-Friable	No	Yes	F-4%, M-4%	Chrysotile	0	Sq.Ft.
10	Caulk - soft grey on steel door frame	Misc.	No	No	No	---	None Detected	687	Sq.Ft.
11	Caulk - soft grey on steel door transom	Misc.	No	No	No	---	None Detected	36	Sq.Ft.
12	Fire Rated Door - steel	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	660	Sq.Ft.
13	Floor Tile & Mastic - 9" tan with brown streaks	Misc.	Category I Non-Friable	No	Yes	F-5%, M-ND	Chrysotile	0	Sq.Ft.
14	Fire Rated Door - wood with slit window (4ft)	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	260	Sq.Ft.
15	Glazing - hard white on wood fire door with 4ft slit window	Misc.	No	No	No	---	None Detected	35	Sq.Ft.

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Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Mt. Pleasant High School

1155 South Elizabeth Street

Mt. Pleasant, MI 488

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
16	Ceramic Tile & Grout - 1" grey and tan mozaic	Misc.	No	No	No	---	None Detected	530	Sq.Ft.
17	Ceramic Tile & Grout - 1" grey and black mozaic	Misc.	No	No	No	---	None Detected	541	Sq.Ft.
18	Floor Tile & Mastic - 12" brown with white flecks	Misc.	Category I Non-Friable	No	Yes	F-5%, M-ND	Chrysotile	0	Sq.Ft.
19	Glazing - hard white on steel door transom	Misc.	No	No	No	---	None Detected	18	Sq.Ft.
20	Ceramic Tile & Grout - 4" red	Misc.	No	No	No	---	None Detected	1825	Sq.Ft.
21	Fire Rated Door - wood with slit window (1ft)	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	140	Sq.Ft.
22	Glazing - hard white on wood fire door with 1ft slit window	Misc.	Category II Non-Friable	No	Yes	<0.25%	Chrysotile	4	Sq.Ft.
23	Floor Tile & Mastic - 9" tan marble	Misc.	Category I Non-Friable	No	Yes	F-4%, M-ND	Chrysotile	0	Sq.Ft.
24	Caulk - soft grey silicone on aluminum door transom	Misc.	No	No	No	---	None Detected	35	Sq.Ft.
25	Caulk - soft grey on steel door frame with sidelight	Misc.	No	No	No	---	None Detected	6	Sq.Ft.
26	Glazing - hard white on steel door sidelight	Misc.	Category II Non-Friable	No	Yes	<0.25%	Chrysotile	10	Sq.Ft.
27	Caulk - hard tan on aluminum transom	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
28	Caulk - soft brown on steel transom	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	2	Sq.Ft.
29	Fire Rated Door - steel with slit window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	0	Sq.Ft.
30	Rubber Flooring - blue	Misc.	No	No	No	---	None Detected	157	Sq.Ft.

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RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Mt. Pleasant High School

1155 South Elizabeth Street

Mt. Pleasant, MI 488

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
31	Caulk - soft grey on aluminum door frame	Misc.	No	No	No	---	None Detected	7	Sq.Ft.
32	Caulk - soft white expansion joint	Misc.	No	No	No	---	None Detected	349	Sq.Ft.
33	Cove Base - 4" charcoal	Misc.	No	No	No	---	None Detected	2045	Sq.Ft.
34	Caulk - soft white on interior steel window frame	Misc.	No	No	No	---	None Detected	29	Sq.Ft.
35	Ceiling Tile - 2 x 4 painted black	Misc.	Yes	No	No	---	None Detected	2024	Sq.Ft.
36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	Thermal	Yes	Yes	Yes	---	Assumed	925	Ln.Ft.
37	Ceiling Tile - 2 x 2 random pinholes	Misc.	Yes	No	No	---	None Detected	39290	Sq.Ft.
38	Ceiling Tile - 2 x 4 random pinholes	Misc.	Yes	No	No	---	None Detected	29792	Sq.Ft.
39	Caulk - hard tan around cabinets	Misc.	No	No	No	---	None Detected	78	Sq.Ft.
40	Sink Undercoating - grey	Surfacing	Category II Non-Friable	No	Yes	7%	Chrysotile	122	Sq.Ft.
41	Drywall & Joint Compound -	Misc.	No	No	No	---	None Detected	18224	Sq.Ft.
42	Laboratory Counter Top - black	Misc.	No	No	No	---	None Detected	839	Sq.Ft.
43	Fume Hood -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	22	Sq.Ft.
44	Glue - pods behind visual display boards	Misc.	Category II Non-Friable	No	Yes	---	Assumed	3410	Sq.Ft.
45	Pipe Insulation-Mudded Fitting - on fiberglass line	Thermal	Yes	Yes	Yes	10%	Chrysotile	1633	Ln.Ft.

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Mt. Pleasant High School

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Mt. Pleasant, MI 488

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
46	Cove Base - 4" light tan	Misc.	No	No	No	---	None Detected	136	Sq.Ft.
47	Sink Undercoating - pink	Surfacing	Category II Non-Friable	No	Yes	7%	Chrysotile	4	Sq.Ft.
48	Caulk - soft white on aluminum window frame	Misc.	No	No	No	---	None Detected	93	Sq.Ft.
49	Transite Window Blank -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	960	Sq.Ft.
50	Sink Undercoating - white	Surfacing	No	No	No	---	None Detected	22	Sq.Ft.
51	Pipe Insulation-Mudded Roof Drain -	Thermal	Yes	Yes	Yes	7%	Chrysotile	23	Ln.Ft.
52	Cove Base - 4" mocha	Misc.	No	No	No	---	None Detected	67	Sq.Ft.
53	Plaster -	Surfacing	No	No	No	---	None Detected	2522	Sq.Ft.
54	Light Backing - silver paper in round light	Misc.	Yes	Yes	Yes	75%	Chrysotile	5	Sq.Ft.
55	Cove Base - 4" black	Misc.	No	No	No	---	None Detected	75	Sq.Ft.
56	Ceramic Tile & Grout - 4" off white	Misc.	Category II Non-Friable	No	Yes	---	Assumed	1040	Sq.Ft.
57	Ceiling Tile - 2 x 2 smooth	Misc.	Yes	No	No	---	None Detected	1264	Sq.Ft.
58	Glazing - hard white on interior steel window frame	Misc.	Category II Non-Friable	No	Yes	<0.25%	Chrysotile	6	Sq.Ft.
59	Ceramic Block & Grout - 5 x 9 white	Misc.	Category II Non-Friable	No	Yes	---	Assumed	640	Sq.Ft.
60	Glue - behind sound proofing board	Misc.	Category II Non-Friable	No	Yes	SP-ND, G-5%	Chrysotile	226	Sq.Ft.

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Northern Analytical Services

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Customer:

Building:

Address:

Mt. Pleasant Public Schools

Mt. Pleasant High School

1155 South Elizabeth Street

Mt. Pleasant, MI 488

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February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
61	Cove Base - 4" brown	Misc.	No	No	No	---	None Detected	50	Sq.Ft.
62	Vibration Dampener Cloth - black	Misc.	No	No	No	---	None Detected	8	Sq.Ft.
63	Glazing - hard tan on interior aluminum window frame	Misc.	Category II Non-Friable	No	Yes	<0.25%	Chrysotile	1	Sq.Ft.
64	Cove Base - 4" white	Misc.	No	No	No	---	None Detected	25	Sq.Ft.
65	Glazing - hard grey in steel partition window	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
66	Transite Panels -	Misc.	Category II Non-Friable	Yes	Yes	12%	Chrysotile	100	Sq.Ft.
67	Caulk - soft grey on louver vent	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
68	Vibration Dampener Cloth - white	Misc.	No	No	No	---	None Detected	12	Sq.Ft.
69	Ceiling Tile - 2 x 4 random pits and pinholes	Misc.	Yes	No	No	---	None Detected	412	Sq.Ft.
70	Flooring - wood gym	Misc.	No	No	No	---	None Detected	4866	Sq.Ft.
71	Duct Work Insulation - white	Thermal	No	No	No	---	None Detected	120	Sq.Ft.
72	Spray on Fireproofing -	Surfacing	Yes	No	No	---	None Detected	2729	Sq.Ft.
73	Sink Undercoating - brown	Surfacing	Category II Non-Friable	No	Yes	5%	Chrysotile	20	Sq.Ft.
74	Fire Brick - white soft	Thermal	No	No	No	---	None Detected	6	Sq.Ft.
75	Ceiling Tile - 2 x 4 random pinholes - addition 1	Misc.	Yes	No	No	---	None Detected	800	Sq.Ft.

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Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Mt. Pleasant High School

1155 South Elizabeth Street

Mt. Pleasant, MI 488

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
76	Caulk - soft white expansion joint - addition 1	Misc.	No	No	No	---	None Detected	21	Sq.Ft.
77	Caulk - soft grey on aluminum door frame - addition 1	Misc.	No	No	No	---	None Detected	6	Sq.Ft.
78	Caulk - soft grey expansion joint - addition 1	Misc.	No	No	No	---	None Detected	5	Sq.Ft.
79	Fire Rated Door - solid wood - addition 1	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
80	Fire Rated Door - solid steel - addition 1	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	100	Sq.Ft.
81	Glue - behind visual display boards - addition 1	Misc.	Category II Non-Friable	No	Yes	---	Assumed	125	Sq.Ft.
82	Drywall & Joint Compound - addition 1	Misc.	No	No	No	---	None Detected	4397	Sq.Ft.
83	Caulk - soft white on steel door transom - addition 1	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
84	Caulk - soft grey on aluminum window frame - addition 1	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
85	Flooring Adhesive - Carpet	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
86	Pipe Insulation - Fiberglass	Thermal	Yes	No	No	---	None Detected	Not Quantified	Ln.Ft.
87	Caulk - On Interior Steel Door Frame	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
88	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1	Each
89	Caulk - On Exterior Steel Door Frame	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
90	Wood Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1	Sq.Ft.

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Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
91	Boiler Material (inside) - Bryan Boiler 1999 Build Year	Thermal	Yes	Yes	Yes	---	Assumed	2	Sq.Ft.
92	Miscellaneous - Assumed Water Gaskets	Misc.	Category I Non-Friable	No	Yes	---	Assumed	50	Sq.Ft.
93	Glue Assumed Behind Visual Display/Mirrors -	Misc.	Category II Non-Friable	No	Yes	---	Assumed	25	Sq.FT.
94	Vinyl Sheet Flooring - 1ftx2ft Wood Look - Gray	Misc.	No	No	No	---	None Detected	1720	Sq.Ft.
95	Cove Base - 4in - Gray	Misc.	No	No	No	---	None Detected	39	Sq.Ft.
96	Caulk - Duct Work - Gray	Misc.	No	No	No	---	None Detected	2	Sq.Ft.

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Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Mt. Pleasant High School
1
1155 South Elizabeth Street
Mt. Pleasant, MI 488

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
400	2	Fire Rated Door - wood with three windows	100	Sq.Ft.	5 Doors	maintain with O&M plan. (7)
400	5	Fire Rated Door - solid wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
400	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
400A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
400B	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
400B	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
400B	40	Sink Undercoating - grey	4	Sq.Ft.		maintain with O&M plan. (7)
400C	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
400D	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
400H	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
401	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
401	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
401	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
401	40	Sink Undercoating - grey	2	Sq.Ft.	1 Small Sink	maintain with O&M plan. (7)
401	44	Glue - pods behind visual display boards	78	Sq.Ft.		maintain with O&M plan. (7)
401	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)

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Address:

Mt. Pleasant Public Schools
Mt. Pleasant High School
1
1155 South Elizabeth Street
Mt. Pleasant, MI 488

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
401	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
401	49	Transite Window Blank -	20	Sq.Ft.		maintain with O&M plan. (7)
402	2	Fire Rated Door - wood with three windows	0	Sq.Ft.	Removed summer of 2018	()
402	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
402	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
402	40	Sink Undercoating - grey	8	Sq.Ft.	1 double sink	maintain with O&M plan. (7)
402	44	Glue - pods behind visual display boards	78	Sq.Ft.	1 Board	maintain with O&M plan. (7)
402	45	Pipe Insulation-Mudded Fitting - on fiberglass line	14	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
402	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
403	2	Fire Rated Door - wood with three windows	0	Sq.Ft.	Removed summer of 2018	()
403	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
403	43	Fume Hood -	20	Sq.Ft.	2 at 3x4x10	maintain with O&M plan. (7)
403	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
403A	2	Fire Rated Door - wood with three windows	0	Sq.Ft.	Removed summer of 2018	()
403A	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
403B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	4	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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404	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
405	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
405	18	Floor Tile & Mastic - 12" brown with white flecks	0	Sq.Ft.	Removed summer of 2018	(0)
406	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
407	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
408	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
409	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
409	44	Glue - pods behind visual display boards	132	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
409	45	Pipe Insulation-Mudded Fitting - on fiberglass line	36	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
409	49	Transite Window Blank -	100	Sq.Ft.	10 at 10 sq ft each	maintain with O&M plan. (7)
420	2	Fire Rated Door - wood with three windows	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
420	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
420	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
420	45	Pipe Insulation-Mudded Fitting - on fiberglass line	6	Ln.Ft.		maintain with O&M plan. (7)
420	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
420A	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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420A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	3	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420A	49	Transite Window Blank -	0	Sq.Ft.	Removed summer of 2018	(0)
420B	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	3	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420B	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
420C	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420C	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420C	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	(0)
420C	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420C	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
420D	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420D	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	(0)
420D	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420D	45	Pipe Insulation-Mudded Fitting - on fiberglass line	10	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420D	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
420E	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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420E	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420E	45	Pipe Insulation-Mudded Fitting - on fiberglass line	9	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420F	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420F	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420F	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
420F	45	Pipe Insulation-Mudded Fitting - on fiberglass line	20	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
420F	49	Transite Window Blank -	20	Sq.Ft.	2 Banks	maintain with O&M plan. (7)
420G	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420G	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420H	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420i	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420i	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420i	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420J	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420J	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420K	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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420K	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420L	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
420L	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
420M	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
421A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.		maintain with O&M plan. (7)
421A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
421A	44	Glue - pods behind visual display boards	60	Sq.Ft.		maintain with O&M plan. (7)
421B	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
421B	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
421B	44	Glue - pods behind visual display boards	60	Sq.Ft.		maintain with O&M plan. (7)
421C	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
421C	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
421D	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
421D	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
421D	47	Sink Undercoating - pink	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
421H	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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421H	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
422	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
422	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
422	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
422A	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
422A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
423	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
423	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
423	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
423	44	Glue - pods behind visual display boards	78	Sq.Ft.		maintain with O&M plan. (7)
424	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
424	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
424	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
424	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
424	44	Glue - pods behind visual display boards	80	Sq.Ft.		maintain with O&M plan. (7)
424	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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424A	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
424A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
425	5	Fire Rated Door - solid wood	100	Sq.Ft.	5 Doors	maintain with O&M plan. (7)
425	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
425	43	Fume Hood -	2	Sq.Ft.		maintain with O&M plan. (7)
425	44	Glue - pods behind visual display boards	78	Sq.Ft.		maintain with O&M plan. (7)
425A	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.		maintain with O&M plan. (7)
425B	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
426	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
426	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
426	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
426	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
426	44	Glue - pods behind visual display boards	140	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
426	45	Pipe Insulation-Mudded Fitting - on fiberglass line	24	Ln.Ft.		maintain with O&M plan. (7)
426	73	Sink Undercoating - brown	16	Sq.Ft.	3 Sinks	maintain with O&M plan. (7)
426A	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)

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426A	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
426A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
426A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	11	Ln.Ft.		maintain with O&M plan. (7)
426A	73	Sink Undercoating - brown	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
427	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
427	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
427	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
427	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
427	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
427	44	Glue - pods behind visual display boards	130	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
427	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone, 1 Elbow	maintain with O&M plan. (7)
427A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.		maintain with O&M plan. (7)
427A	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
427A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
427A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
428	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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428	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
428	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
428	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
428	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
429	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
429	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
429	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
429	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
429	44	Glue - pods behind visual display boards	120	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
429	45	Pipe Insulation-Mudded Fitting - on fiberglass line	11	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
429A	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.		maintain with O&M plan. (7)
429A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
429B	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.		maintain with O&M plan. (7)
429B	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
429B	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
500	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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500	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
500A	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
500B	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
500B	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
500B	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
502	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
502	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
502	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
502	44	Glue - pods behind visual display boards	130	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
502A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
502A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
503	2	Fire Rated Door - wood with three windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
503	5	Fire Rated Door - solid wood	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
503	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
503	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
503	40	Sink Undercoating - grey	8	Sq.Ft.	1 double sink	maintain with O&M plan. (7)

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<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
503	44	Glue - pods behind visual display boards	65	Sq.Ft.	1 Board	maintain with O&M plan. (7)
503C	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
503D	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
504	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
504	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 2 Elbow above Ceiling tile	maintain with O&M plan. (7)
504A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
505	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
505	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
505	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
505	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
505	40	Sink Undercoating - grey	8	Sq.Ft.	1 double sink	maintain with O&M plan. (7)
505	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
505A	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
505A	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
505A	44	Glue - pods behind visual display boards	45	Sq.Ft.	1 Board	maintain with O&M plan. (7)
506	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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506	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
506	18	Floor Tile & Mastic - 12" brown with white flecks	0	Sq.Ft.	Removed summer of 2018	()
507	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
507	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
507	18	Floor Tile & Mastic - 12" brown with white flecks	0	Sq.Ft.	Removed summer of 2018	()
507	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
507	44	Glue - pods behind visual display boards	160	Sq.Ft.		maintain with O&M plan. (7)
507	45	Pipe Insulation-Mudded Fitting - on fiberglass line	8	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
507	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.		maintain with O&M plan. (7)
507A	18	Floor Tile & Mastic - 12" brown with white flecks	0	Sq.Ft.	Removed summer of 2018	()
508	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
508	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
508	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
508	40	Sink Undercoating - grey	8	Sq.Ft.	1 double sink	maintain with O&M plan. (7)
508	44	Glue - pods behind visual display boards	146	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
508	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 2 Elbow above Ceiling tile	maintain with O&M plan. (7)

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509	6	Fire Rated Door - wood with slit window (3 ft)	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
509	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
509	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
509	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
509	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
509	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 2 Elbow above Ceiling tile	maintain with O&M plan. (7)
509	54	Light Backing - silver paper in round light	1	Sq.Ft.	Above Ceiling Tile 20ft up	maintain with O&M plan. (7)
509A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
510	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
510	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
510	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
510	40	Sink Undercoating - grey	4	Sq.Ft.		maintain with O&M plan. (7)
510	44	Glue - pods behind visual display boards	60	Sq.Ft.		maintain with O&M plan. (7)
510	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
510	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 3 Elbows above ceiling tile	maintain with O&M plan. (7)
511	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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511	5	Fire Rated Door - solid wood	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
511	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
511	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	(0)
511	44	Glue - pods behind visual display boards	165	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
511A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
511B	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
511H	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
511H	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
512	6	Fire Rated Door - wood with slit window (3 ft)	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
512	40	Sink Undercoating - grey	40	Sq.Ft.	5 Sinks	maintain with O&M plan. (7)
512	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 2 Elbow	maintain with O&M plan. (7)
513	21	Fire Rated Door - wood with slit window (1ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
513	22	Glazing - hard white on wood fire door with 1ft slit window	1	Sq.Ft.		maintain with O&M plan. (7)
513	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
513	45	Pipe Insulation-Mudded Fitting - on fiberglass line	44	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
513A	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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513A	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
513A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	6	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
600	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
600	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
600	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
600	40	Sink Undercoating - grey	2	Sq.Ft.	1 Small Sink	maintain with O&M plan. (7)
600	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
600	45	Pipe Insulation-Mudded Fitting - on fiberglass line	18	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
600	49	Transite Window Blank -	60	Sq.Ft.		maintain with O&M plan. (7)
600A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
600A	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
600A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
600A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	5	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
600A	49	Transite Window Blank -	20	Sq.Ft.		maintain with O&M plan. (7)
600B	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
600B	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()

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600B	21	Fire Rated Door - wood with slit window (1ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
600B	22	Glazing - hard white on wood fire door with 1ft slit window	1	Sq.Ft.		maintain with O&M plan. (7)
600B	49	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
601	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
601	12	Fire Rated Door - steel	0	Sq.Ft.	Removed summer of 2018	()
601	45	Pipe Insulation-Mudded Fitting - on fiberglass line	51	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
601	49	Transite Window Blank -	40	Sq.Ft.	4 Frames	maintain with O&M plan. (7)
601A	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
601A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	4	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
602	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
602	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
602	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
602	44	Glue - pods behind visual display boards	150	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
602	45	Pipe Insulation-Mudded Fitting - on fiberglass line	12	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
602A	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
602A	14	Fire Rated Door - wood with slit window (4ft)	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

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602A	26	Glazing - hard white on steel door sidelight	1	Sq.Ft.		maintain with O&M plan. (7)
602A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
602A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	1	Ln.Ft.		maintain with O&M plan. (7)
602B	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
602B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
602B	58	Glazing - hard white on interior steel window frame	3	Sq.Ft.		maintain with O&M plan. (7)
602B	60	Glue - behind sound proofing board	226	Sq.Ft.	Walls and Ceiling	maintain with O&M plan. (7)
603	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
603	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
603	45	Pipe Insulation-Mudded Fitting - on fiberglass line	18	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
603	49	Transite Window Blank -	40	Sq.Ft.	4 Blanks	maintain with O&M plan. (7)
604	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
604	12	Fire Rated Door - steel	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
604	27	Caulk - hard tan on aluminum transom	1	Sq.Ft.		maintain with O&M plan. (7)
604	40	Sink Undercoating - grey	2	Sq.Ft.	1 Small Sink	maintain with O&M plan. (7)
604	44	Glue - pods behind visual display boards	80	Sq.Ft.		maintain with O&M plan. (7)

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604	45	Pipe Insulation-Mudded Fitting - on fiberglass line	36	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
604	49	Transite Window Blank -	60	Sq.Ft.		maintain with O&M plan. (7)
604A	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
604A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	10	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
604B	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
604B	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
604B	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
605	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
605	40	Sink Undercoating - grey	4	Sq.Ft.	1 Sink	maintain with O&M plan. (7)
605	45	Pipe Insulation-Mudded Fitting - on fiberglass line	13	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
605	49	Transite Window Blank -	60	Sq.Ft.		maintain with O&M plan. (7)
605A	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
605A	26	Glazing - hard white on steel door sidelight	1	Sq.Ft.		maintain with O&M plan. (7)
610	2	Fire Rated Door - wood with three windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
610	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
610	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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610	28	Caulk - soft brown on steel transom	2	Sq.Ft.	2 Frames	maintain with O&M plan. (7)
610	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
610	45	Pipe Insulation-Mudded Fitting - on fiberglass line	29	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
610	49	Transite Window Blank -	40	Sq.Ft.	4 Blanks	maintain with O&M plan. (7)
610A	29	Fire Rated Door - steel with slit window	0	Sq.Ft.	Removed summer of 2018	()
610A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
610A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
610B	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
610B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	5	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
612	5	Fire Rated Door - solid wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
612	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
612	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
612	45	Pipe Insulation-Mudded Fitting - on fiberglass line	76	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
612	58	Glazing - hard white on interior steel window frame	2	Sq.Ft.		maintain with O&M plan. (7)
612A	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
612A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	6	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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612A	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 3 Elbows above ceiling tile	maintain with O&M plan. (7)
612B	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
612C	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
612C	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
612C	56	Ceramic Tile & Grout - 4" off white	240	Sq.Ft.		maintain with O&M plan. (7)
612D	45	Pipe Insulation-Mudded Fitting - on fiberglass line	21	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
612D	49	Transite Window Blank -	40	Sq.Ft.	4 Blanks	maintain with O&M plan. (7)
612D	51	Pipe Insulation-Mudded Roof Drain -	2	Ln.Ft.	1 Cone 1 Elbow	maintain with O&M plan. (7)
612E	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
612E	45	Pipe Insulation-Mudded Fitting - on fiberglass line	6	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
612F	59	Ceramic Block & Grout - 5 x 9 white	300	Sq.Ft.	Walls	maintain with O&M plan. (7)
612G	59	Ceramic Block & Grout - 5 x 9 white	340	Sq.Ft.	Walls	maintain with O&M plan. (7)
612H	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
612H	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
614	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
614	26	Glazing - hard white on steel door sidelight	2	Sq.Ft.		maintain with O&M plan. (7)

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614	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
614	44	Glue - pods behind visual display boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
614	45	Pipe Insulation-Mudded Fitting - on fiberglass line	12	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
614	49	Transite Window Blank -	100	Sq.Ft.	10 Blanks	maintain with O&M plan. (7)
620	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
620	12	Fire Rated Door - steel	20	Sq.Ft.		maintain with O&M plan. (7)
620	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
620	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
620	44	Glue - pods behind visual display boards	130	Sq.Ft.		maintain with O&M plan. (7)
620	45	Pipe Insulation-Mudded Fitting - on fiberglass line	11	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
620	49	Transite Window Blank -	40	Sq.Ft.		maintain with O&M plan. (7)
620A	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
620A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	13	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
620A	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.		maintain with O&M plan. (7)
620B	2	Fire Rated Door - wood with three windows	20	Sq.Ft.		maintain with O&M plan. (7)
620B	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()

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620B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	14	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
620B	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.		maintain with O&M plan. (7)
621	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
621	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
621	27	Caulk - hard tan on aluminum transom	1	Sq.Ft.	1 Frame	maintain with O&M plan. (7)
621	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
621	44	Glue - pods behind visual display boards	0	Sq.Ft.	Removed Prior to Re-Inspection	()
621	45	Pipe Insulation-Mudded Fitting - on fiberglass line	37	Ln.Ft.		maintain with O&M plan. (7)
621	49	Transite Window Blank -	30	Sq.Ft.		maintain with O&M plan. (7)
621	63	Glazing - hard tan on interior aluminum window frame	1	Sq.Ft.		maintain with O&M plan. (7)
621A	12	Fire Rated Door - steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
621A	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
621A	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
621A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	3	Ln.Ft.		maintain with O&M plan. (7)
621B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	3	Ln.Ft.		maintain with O&M plan. (7)
622	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()

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622	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
622	45	Pipe Insulation-Mudded Fitting - on fiberglass line	0	Ln.Ft.	Removed Prior to Re-Inspection	(4)
622	49	Transite Window Blank -	60	Sq.Ft.		maintain with O&M plan. (7)
700	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
700	26	Glazing - hard white on steel door sidelight	2	Sq.Ft.	1 Frame	maintain with O&M plan. (7)
700	27	Caulk - hard tan on aluminum transom	2	Sq.Ft.		maintain with O&M plan. (7)
700	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
700	45	Pipe Insulation-Mudded Fitting - on fiberglass line	68	Ln.Ft.		maintain with O&M plan. (7)
700	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone 2 Elbow	maintain with O&M plan. (7)
700A	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
700A	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
700A	44	Glue - pods behind visual display boards	160	Sq.Ft.		maintain with O&M plan. (7)
700A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	17	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
700B	9	Floor Tile & Mastic - under carpet	0	Sq.Ft.	Removed summer of 2018	()
700B	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
700B	26	Glazing - hard white on steel door sidelight	1	Sq.Ft.		maintain with O&M plan. (7)

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700B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	2	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
700C	45	Pipe Insulation-Mudded Fitting - on fiberglass line	4	Ln.Ft.		maintain with O&M plan. (7)
701	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
701	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
701	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
701	21	Fire Rated Door - wood with slit window (1ft)	0	Sq.Ft.	Removed summer of 2018	()
701	22	Glazing - hard white on wood fire door with 1ft slit window	0	Sq.Ft.	Removed summer of 2018	()
701	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
701	26	Glazing - hard white on steel door sidelight	2	Sq.Ft.	1 Frame	maintain with O&M plan. (7)
701	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
701	44	Glue - pods behind visual display boards	100	Sq.Ft.		maintain with O&M plan. (7)
701	45	Pipe Insulation-Mudded Fitting - on fiberglass line	3	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
701A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
701B	21	Fire Rated Door - wood with slit window (1ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
701B	22	Glazing - hard white on wood fire door with 1ft slit window	1	Sq.Ft.		maintain with O&M plan. (7)
701B	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()

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701B	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
701B	45	Pipe Insulation-Mudded Fitting - on fiberglass line	7	Ln.Ft.		maintain with O&M plan. (7)
701B	54	Light Backing - silver paper in round light	4	Sq.Ft.		maintain with O&M plan. (7)
701C	21	Fire Rated Door - wood with slit window (1ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
701C	22	Glazing - hard white on wood fire door with 1ft slit window	1	Sq.Ft.		maintain with O&M plan. (7)
701C	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
701C	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
701C	45	Pipe Insulation-Mudded Fitting - on fiberglass line	11	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
701D	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
703	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
703	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
703	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
703	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
703	44	Glue - pods behind visual display boards	45	Sq.Ft.	1 Board	maintain with O&M plan. (7)
703	45	Pipe Insulation-Mudded Fitting - on fiberglass line	110	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
703	66	Transite Panels -	100	Sq.Ft.	4 at 5x5 Each	maintain with O&M plan. (7)

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704	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
704	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()
704	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
704	44	Glue - pods behind visual display boards	135	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
704	45	Pipe Insulation-Mudded Fitting - on fiberglass line	10	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
705	12	Fire Rated Door - steel	40	Sq.Ft.		maintain with O&M plan. (7)
705	14	Fire Rated Door - wood with slit window (4ft)	0	Sq.Ft.	Removed summer of 2018	()
705	21	Fire Rated Door - wood with slit window (1ft)	20	Sq.Ft.		maintain with O&M plan. (7)
705	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
705	45	Pipe Insulation-Mudded Fitting - on fiberglass line	132	Ln.Ft.	1 Damaged Mudded Fitting	remove or repair damage ASAP. (4)
705	49	Transite Window Blank -	20	Sq.Ft.		maintain with O&M plan. (7)
705	51	Pipe Insulation-Mudded Roof Drain -	2	Ln.Ft.	2 Cones, 2 Elbows, 1 Damaged Roof Drain	remove or repair damage ASAP. (4)
705A	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
705A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
705B	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.		maintain with O&M plan. (7)
705B	23	Floor Tile & Mastic - 9" tan marble	0	Sq.Ft.	Removed summer of 2018	()

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705B	26	Glazing - hard white on steel door sidelight	1	Sq.Ft.		maintain with O&M plan. (7)
705B	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
705C	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
705C	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
705C	45	Pipe Insulation-Mudded Fitting - on fiberglass line	17	Ln.Ft.		maintain with O&M plan. (7)
709	5	Fire Rated Door - solid wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
709	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
709	45	Pipe Insulation-Mudded Fitting - on fiberglass line	8	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
709	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone, 4 Elbows	maintain with O&M plan. (7)
710	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
710	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
710	44	Glue - pods behind visual display boards	85	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
710	45	Pipe Insulation-Mudded Fitting - on fiberglass line	48	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
710A	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
710A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
710A	44	Glue - pods behind visual display boards	20	Sq.Ft.	1 Board	maintain with O&M plan. (7)

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710A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	12	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
711	2	Fire Rated Door - wood with three windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
711	44	Glue - pods behind visual display boards	60	Sq.Ft.	1 Board	maintain with O&M plan. (7)
711	45	Pipe Insulation-Mudded Fitting - on fiberglass line	10	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
711A	14	Fire Rated Door - wood with slit window (4ft)	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
711A	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
711A	45	Pipe Insulation-Mudded Fitting - on fiberglass line	6	Ln.Ft.	Above Ceiling	maintain with O&M plan. (7)
712	12	Fire Rated Door - steel	160	Sq.Ft.	8 Doors	maintain with O&M plan. (7)
712	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
712	51	Pipe Insulation-Mudded Roof Drain -	2	Ln.Ft.	2 Cones, 5 Elbows	maintain with O&M plan. (7)
713	12	Fire Rated Door - steel	80	Sq.Ft.	4 Doors	maintain with O&M plan. (7)
713	21	Fire Rated Door - wood with slit window (1ft)	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
713	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
713	51	Pipe Insulation-Mudded Roof Drain -	2	Ln.Ft.	2 Cones, 5 Elbows	maintain with O&M plan. (7)
713	58	Glazing - hard white on interior steel window frame	1	Sq.Ft.		maintain with O&M plan. (7)
714	79	Fire Rated Door - solid wood - addition 1	40	Sq.Ft.		maintain with O&M plan. (7)

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714	80	Fire Rated Door - solid steel - addition 1	20	Sq.Ft.		maintain with O&M plan. (7)
714	81	Glue - behind visual display boards - addition 1	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
715	80	Fire Rated Door - solid steel - addition 1	80	Sq.Ft.		maintain with O&M plan. (7)
715	81	Glue - behind visual display boards - addition 1	45	Sq.Ft.	1 Board	maintain with O&M plan. (7)
Boiler Room	88	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
Boiler Room	90	Wood Door -	1	Sq.Ft.		maintain with O&M plan. (7)
Boiler Room	91	Boiler Material (inside) - Bryan Boiler 1999 Build Year	2	Sq.Ft.	6ft x 12ft x 12ft	maintain with O&M plan. (7)
Boiler Room	92	Miscellaneous - Assumed Water Gaskets	50	Sq.Ft.		maintain with O&M plan. (7)
Boiler Room	93	Glue Assumed Behind Visual Display/Mirrors -	25	Sq.FT.	Northeast Wall	maintain with O&M plan. (7)
Custodian 1	5	Fire Rated Door - solid wood	0	Sq.Ft.	Removed summer of 2018	()
Custodian 1	13	Floor Tile & Mastic - 9" tan with brown streaks	0	Sq.Ft.	Removed summer of 2018	()
Custodian 1	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.	No Access	maintain with O&M plan. (7)
Custodian 2	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
Elec. Room	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
Elec. Room	12	Fire Rated Door - steel	20	Sq.Ft.		maintain with O&M plan. (7)
H1	45	Pipe Insulation-Mudded Fitting - on fiberglass line	49	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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H1	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone, 5 Elbows	maintain with O&M plan. (7)
H2	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
H2	45	Pipe Insulation-Mudded Fitting - on fiberglass line	33	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H3	45	Pipe Insulation-Mudded Fitting - on fiberglass line	73	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H4	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
H4	45	Pipe Insulation-Mudded Fitting - on fiberglass line	92	Ln.Ft.		maintain with O&M plan. (7)
H4	49	Transite Window Blank -	90	Sq.Ft.		maintain with O&M plan. (7)
H4	51	Pipe Insulation-Mudded Roof Drain -	1	Ln.Ft.	1 Cone, 2 Elbows	maintain with O&M plan. (7)
H5	45	Pipe Insulation-Mudded Fitting - on fiberglass line	128	Ln.Ft.		maintain with O&M plan. (7)
H6	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
H6	45	Pipe Insulation-Mudded Fitting - on fiberglass line	105	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H7	12	Fire Rated Door - steel	60	Sq.Ft.		maintain with O&M plan. (7)
H8	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
H8	45	Pipe Insulation-Mudded Fitting - on fiberglass line	57	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H9	12	Fire Rated Door - steel	40	Sq.Ft.		maintain with O&M plan. (7)
H9	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Mt. Pleasant High School
1
1155 South Elizabeth Street
Mt. Pleasant, MI 488

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
Laundry Room	6	Fire Rated Door - wood with slit window (3 ft)	20	Sq.Ft.		maintain with O&M plan. (7)
Laundry Room	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
Mech. 1	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
Mech. 1	12	Fire Rated Door - steel	20	Sq.Ft.		maintain with O&M plan. (7)
Mech. 1	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
RR1	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
RR1	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
RR2	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RR3	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RR4	5	Fire Rated Door - solid wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
RR4	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
RR5	5	Fire Rated Door - solid wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
RR5	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
RR5	56	Ceramic Tile & Grout - 4" off white	400	Sq.Ft.		maintain with O&M plan. (7)
RR6	5	Fire Rated Door - solid wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
RR6	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	20	Ln.Ft.		maintain with O&M plan. (7)

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Response Action Report

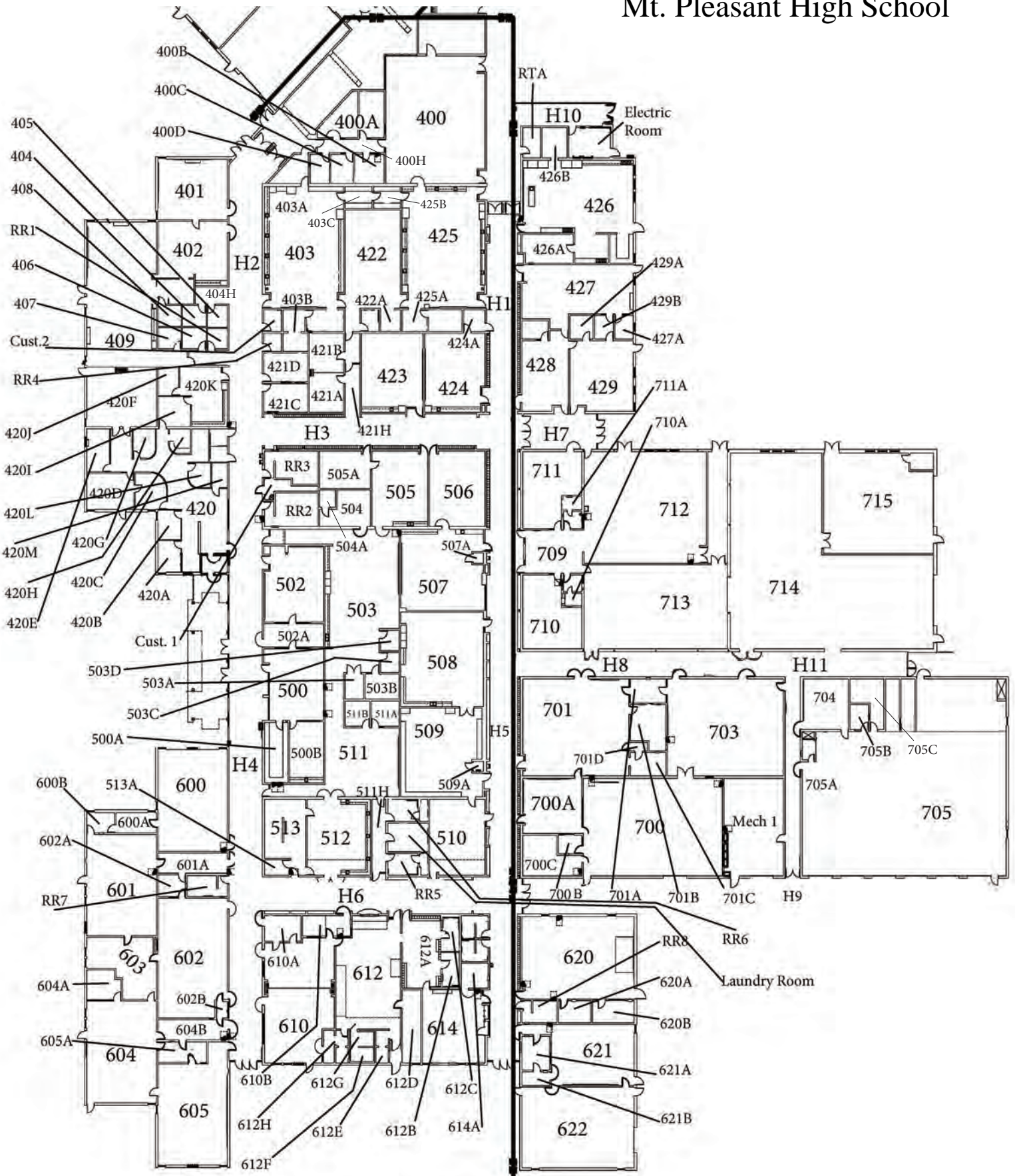
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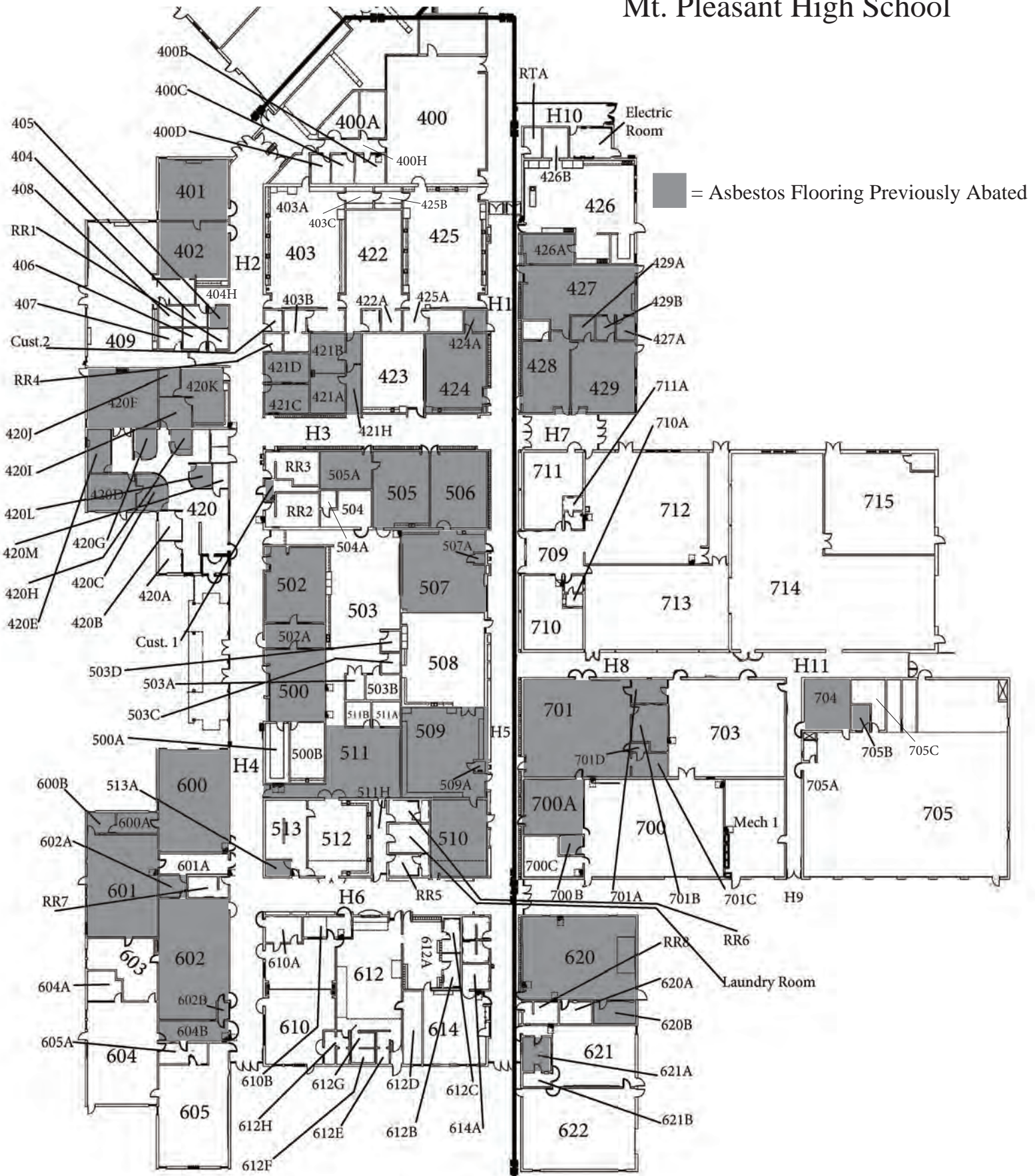
<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
RR6	56	Ceramic Tile & Grout - 4" off white	400	Sq.Ft.		maintain with O&M plan. (7)
RR7	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RR8	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)
RR8	36	Pipe Insulation-Mudded Pipe Fitting - assumed in walls and ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RTA	5	Fire Rated Door - solid wood	20	Sq.Ft.		maintain with O&M plan. (7)

Floor Plan


Mt. Pleasant High School



Mt. Pleasant High School



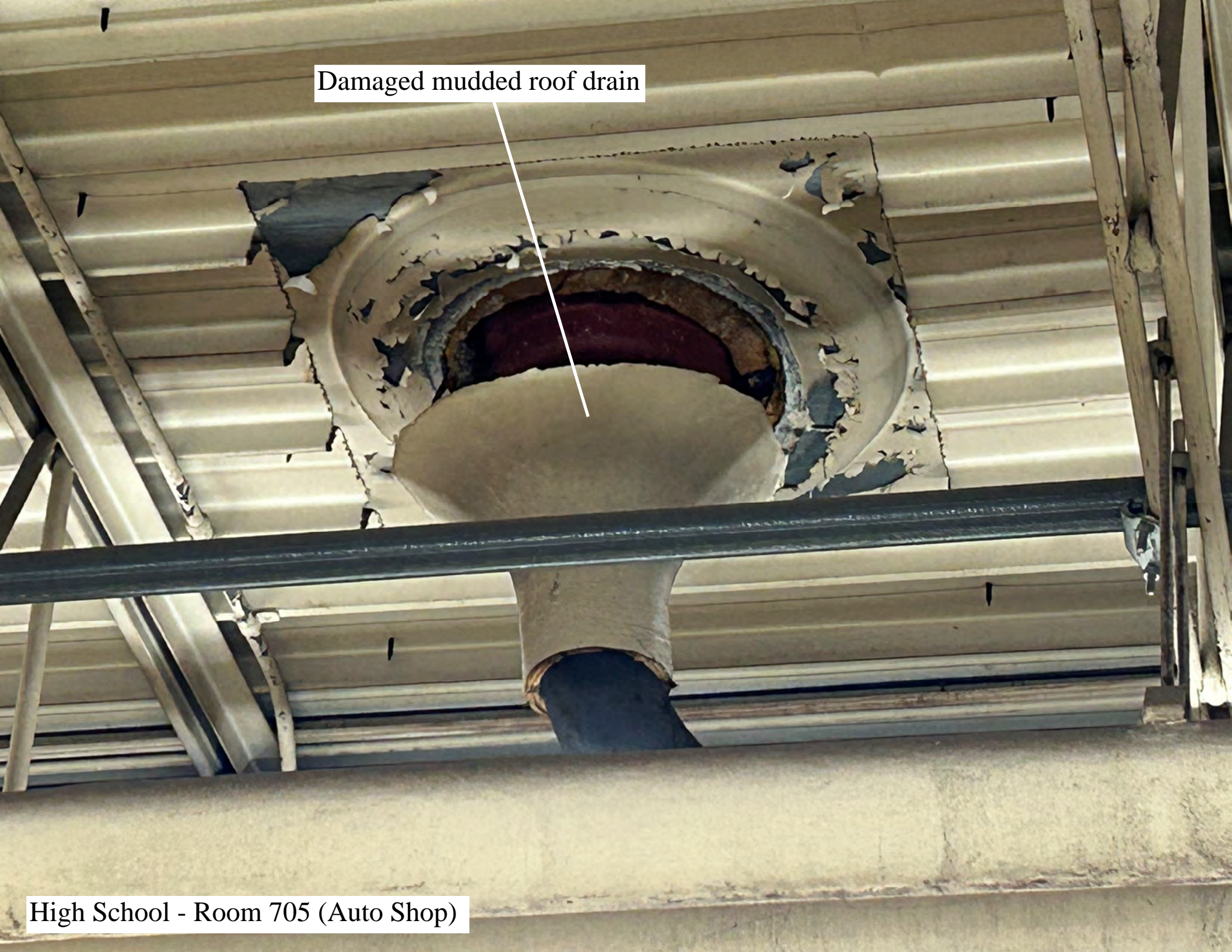
Photos



Loose mudded pipe fitting
hanging on pipe.

High School - Room 705 (Auto Shop)

Damaged mudded roof drain



High School - Room 705 (Auto Shop)

**Mt. Pleasant Middle School
(Former West Intermediate)**

Material Report

Northern Analytical Services

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Customer: Mt. Pleasant Public Schools
Building: Middle School (Former West Intermediate)
Address: 440 South Bradley Street
Mt. Pleasant, MI 48858

Printed: February 21, 2024

Material Report

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
1	Floor Tile & Mastic -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	0	Sq.Ft.
2	Pipe Insulation-Mudded Fitting -	Thermal	Yes	Yes	Yes	10%	Chrysotile	30	Ln.Ft.
3	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	5	Sq.Ft.
4	Tar, Felt & Associated Mastic Layers Under Wood Floor -	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4900	Sq.Ft.
5	Cove Base - 4 inch, Dark Gray	Misc.	No	No	No	---	None Detected	1325	Sq.Ft.
6	Floor Tile & Mastic - 12 inch, Light Gray Flex, Black Mastic	Misc.	No	No	No	---	None Detected	12545	Sq.Ft.
7	Stair Tread - Dark Blue w/ Glue Backing	Misc.	No	No	No	---	None Detected	280	Sq.Ft.
8	Flooring - Assumed Under Cabinets/Heaters	Misc.	Category I Non-Friable	No	Yes	---	Assumed	1592	Sq.Ft.
9	Flooring Layer Assumed Under Surface Layer -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	27870	Sq.Ft.
10	Flooring-Carpet Glue - Tan	Misc.	No	No	No	---	None Detected	31905	Sq.Ft.
11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-4%, M-ND	Chrysotile	19965	Sq.Ft.
12	Mastic - Black	Misc.	No	No	No	---	None Detected	3550	Sq.Ft.
13	Flooring - Terrazzo	Misc.	No	No	No	---	None Detected	6405	Sq.Ft.
14	Ceiling Tile - 2x2, White w/ Pinholes	Misc.	Yes	No	No	---	None Detected	52080	Sq.Ft.
15	Pipe Insulation - Fiberglass	Thermal	Yes	No	No	---	None Detected	Not Quantified	Ln.Ft.

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

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16	Pipe Insulation-Mudded Fitting - and Hangers	Thermal	Yes	Yes	Yes	10%	Chrysotile	627	Ln.Ft.
17	Caulk - On Brick Wall	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
18	Caulk - On Ductwork, Green	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
19	Floor Tile & Mastic - 12 inch, Gray, Stone Look	Misc.	No	No	No	---	None Detected	600	Sq.Ft.
20	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
21	Caulk - On Interior Steel Door Frame	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	10	Sq.Ft.
22	Fire Rated Door - Wood, Solid	Misc.		No	Yes	---	Assumed	15	Each
23	Drywall & Joint Compound -	Misc.		No	No	---	None Detected	2100	Sq.Ft.
24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	275	Ln.Ft.
25	Fire Rated Door - Wood w/ 3inx24in Window	Misc.	Category II Non-Friable	No	Yes	---	Assumed	7	Each
26	Glazing - On Wood Door w/ 4"x60" Window	Misc.		No	No	---	None Detected	1	Sq.Ft.
27	Caulk - On Interior Steel Door Frame w/ Side Window	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	11	Sq.Ft.
28	Glazing - On Interior Steel Door Frame w/ Side Window (Material 27)	Misc.		No	Yes	2%	Chrysotile	3	Sq.Ft.
29	Spray on Fireproofing - Gray, Fluffy	Surfacing	Yes	Yes	Yes	10%	Amosite	400	Sq.Ft.
30	Caulk - On Exterior Silver Aluminum Window Frame, Gray, Pliable	Misc.	No	No	No	---	None Detected	13	Sq.Ft.

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31	Plaster - Troweled on I-Beam	Surfacing	No	No	No	---	None Detected	10	Sq.Ft.
32	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	4	Sq.Ft.
33	Plaster - Textured	Surfacing	No	No	No	---	None Detected	975	Sq.Ft.
34	Ceramic Tile & Grout - 2inx2in, Light Gray	Misc.	No	No	No	---	None Detected	30	Sq.Ft.
35	Glue - Assumed Behind Mirror	Misc.	Category II Non-Friable	No	Yes	---	Assumed	90	Sq.Ft.
36	No Suspect Materials Found -	Misc.	No	No	No	---	None Detected	0	Each
37	Curtain - Stage	Misc.	No	No	No	---	None Detected	1000	Sq.Ft.
38	Caulk - On Interior Steel Transom Frame	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	9	Sq.Ft.
39	Glazing - On Interior Steel Transom Window (Material 38)	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	9	Sq.Ft.
40	Sink Undercoating - Black	Surfacing	No	No	No	---	None Detected	16	Sq.Ft.
41	Caulk - On Interior Steel Beam	Misc.	No	No	No	---	None Detected	4	Sq.Ft.
42	Caulk - On Interior Steel Window Frame	Misc.	Category II Non-Friable	No	Yes	3%	Chrysotile	4	Sq.Ft.
43	Glazing - On Interior Steel Window (Material 42)	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	4	Sq.Ft.
44	Sink Undercoating - Gray	Surfacing	Category II Non-Friable	No	Yes	7%	Chrysotile	4	Sq.Ft.
45	Glue - Assumed Behind Visual Display Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	250	Sq.Ft.

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Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
46	Fire Rated Door - Wood w/ 6"x60" Window	Misc.	Category II Non-Friable	No	Yes	---	Assumed	3	Each
47	Chalk Board - Green	Misc.	Category II Non-Friable	No	Yes	---	Assumed	30	Sq.Ft.
48	Cove Base - 4 inch, Cream w/ Glue Backing	Misc.	No	No	No	---	None Detected	30	Sq.Ft.
49	Caulk - On Exterior Silver Aluminum Door Frame, Gray, Pliable	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
50	Floor Tile & Mastic - Tan Flex	Misc.	No	No	No	---	None Detected	1800	Sq.Ft.
51	Cove Base - 4 inch, Dark Blue w/ Glue Backing	Misc.	No	No	No	---	None Detected	50	Sq.Ft.
52	Caulk - On Aluminum Store Front Frame, Gray, Pliable	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
53	Glue - Assumed Behind Sound Board	Misc.	Category II Non-Friable	No	Yes	---	Assumed	380	Sq.Ft.
54	Caulk - On Exterior Louver, Light Gray, Pliable	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
55	Miscellaneous - Brick and Mortar	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
56	Light Backing -	Misc.	Yes	Yes	Yes	50%	Chrysotile	1	Sq.Ft.
57	Tar, Felt & Associated Mastic Layers Under Wood Floor - Stage Floor	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.
58	Spray on Fireproofing - Room 403	Surfacing	Yes	No	No	---	None Detected	1300	Sq.Ft.
59	Plaster - Exterior Soffit	Surfacing	No	No	No	---	None Detected	Not Quantified	Sq.Ft.

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Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA: Mt. Pleasant Public Schools
 Building: Middle School (Former West Intermediate)
 Building No.: 2
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 Mt. Pleasant, MI 48858

Response Action Report

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<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
105	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
106	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
107	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
108	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
109	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
110	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
206	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	East Wall at Heater	maintain with O&M plan. (7)
206	9	Flooring Layer Assumed Under Surface Layer -	900	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
206	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
207	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	West Wall at Heater	maintain with O&M plan. (7)
207	9	Flooring Layer Assumed Under Surface Layer -	900	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
207	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
208	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	East Wall at Heater	maintain with O&M plan. (7)
208	9	Flooring Layer Assumed Under Surface Layer -	900	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
208	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
209	9	Flooring Layer Assumed Under Surface Layer -	1250	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)

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210	9	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
210	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.		maintain with O&M plan. (7)
210	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
210	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling, No Access	maintain with O&M plan. (7)
211	9	Flooring Layer Assumed Under Surface Layer -	1200	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
212	9	Flooring Layer Assumed Under Surface Layer -	120	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
212	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.		maintain with O&M plan. (7)
212	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
212	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling, No Access	maintain with O&M plan. (7)
213	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
213	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	525	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
213	16	Pipe Insulation-Mudded Fitting - and Hangers	20	Ln.Ft.		maintain with O&M plan. (7)
213	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
215	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
215	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
215	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	725	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)

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215	16	Pipe Insulation-Mudded Fitting - and Hangers	6	Ln.Ft.		maintain with O&M plan. (7)
215	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
216	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
216	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	950	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
216	16	Pipe Insulation-Mudded Fitting - and Hangers	6	Ln.Ft.		maintain with O&M plan. (7)
216	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
217	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
217	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
217	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	625	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
217	16	Pipe Insulation-Mudded Fitting - and Hangers	14	Ln.Ft.		maintain with O&M plan. (7)
217	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
218	8	Flooring - Assumed Under Cabinets/Heaters	25	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
218	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	West Wall at Heater	maintain with O&M plan. (7)
218	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	950	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
218	16	Pipe Insulation-Mudded Fitting - and Hangers	14	Ln.Ft.		maintain with O&M plan. (7)
218	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)

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<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
219	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
219	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
219	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	725	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
219	16	Pipe Insulation-Mudded Fitting - and Hangers	8	Ln.Ft.		maintain with O&M plan. (7)
219	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
220	9	Flooring Layer Assumed Under Surface Layer -	130	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
221	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
221	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
221	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	725	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
221	16	Pipe Insulation-Mudded Fitting - and Hangers	18	Ln.Ft.		maintain with O&M plan. (7)
221	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
306	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Heaters (3 Units)	maintain with O&M plan. (7)
306	9	Flooring Layer Assumed Under Surface Layer -	3600	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
306	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	15	Ln.Ft.	South Wall at Heaters (3 Units)	maintain with O&M plan. (7)
306A	9	Flooring Layer Assumed Under Surface Layer -	300	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
308	8	Flooring - Assumed Under Cabinets/Heaters	40	Sq.Ft.	North Wall at Cabinet	maintain with O&M plan. (7)

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

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 Address: 440 South Bradley Street
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308	9	Flooring Layer Assumed Under Surface Layer -	650	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
310	9	Flooring Layer Assumed Under Surface Layer -	300	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
313A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Sink	maintain with O&M plan. (7)
313A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	Above Ceiling, No Access	maintain with O&M plan. (7)
314	4	Tar, Felt & Associated Mastic Layers Under Wood Floor -	900	Sq.Ft.		maintain with O&M plan. (7)
314	16	Pipe Insulation-Mudded Fitting - and Hangers	8	Ln.Ft.	Includes 1 Roof Drain	maintain with O&M plan. (7)
314	21	Caulk - On Interior Steel Door Frame	0	Sq.Ft.	Abated Summer 2023	(0)
314	22	Fire Rated Door - Wood, Solid	2	Each	North and East Wall	maintain with O&M plan. (7)
315	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
315	56	Light Backing -	1	Sq.Ft.		maintain with O&M plan. (7)
316	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	100	Sq.Ft.		maintain with O&M plan. (7)
320	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.	East Wall, Double Door	maintain with O&M plan. (7)
320	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	Abated Summer 2023	(4)
320	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.	West Wall	maintain with O&M plan. (7)
320	28	Glazing - On Interior Steel Door Frame w/ Side Window (Material 27)	1	Sq.Ft.	West Wall	maintain with O&M plan. (7)
323	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found	(0)

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323	16	Pipe Insulation-Mudded Fitting - and Hangers	0	Ln.Ft.	Abated Summer 2023	(4)
323	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.	2 Units, 10x12, North and West Wall	maintain with O&M plan. (7)
323	28	Glazing - On Interior Steel Door Frame w/ Side Window (Material 27)	1	Sq.Ft.	2 Units, 10x12, North and West Wall	maintain with O&M plan. (7)
323	29	Spray on Fireproofing - Gray, Fluffy	0	Sq.Ft.	Abated Spring 2023	(4)
324	8	Flooring - Assumed Under Cabinets/Heaters	0	Sq.Ft.	East Wall, None Found	(0)
324	8	Flooring - Assumed Under Cabinets/Heaters	0	Sq.Ft.	North Wall, None Found	(0)
324	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	(0)
324	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.	North Wall	maintain with O&M plan. (7)
324	22	Fire Rated Door - Wood, Solid	1	Each	South Wall	maintain with O&M plan. (7)
324	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
324	25	Fire Rated Door - Wood w/ 3inx24in Window	1	Each	North Wall	maintain with O&M plan. (7)
324	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.	South Wall	maintain with O&M plan. (7)
324	28	Glazing - On Interior Steel Door Frame w/ Side Window (Material 27)	1	Sq.Ft.	South Wall	maintain with O&M plan. (7)
325	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	None Found	(0)
325	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
325	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)

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325	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
327	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	None Found	(0)
327	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.		maintain with O&M plan. (7)
327	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
327	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	Above Ceiling, No Access	maintain with O&M plan. (7)
328	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	(0)
328	16	Pipe Insulation-Mudded Fitting - and Hangers	0	Ln.Ft.	Abated Summer 2023	(4)
328	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.	Closet Door	maintain with O&M plan. (7)
328	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
328	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.	Hallway Door	maintain with O&M plan. (7)
328A	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	None Found	(0)
328A	16	Pipe Insulation-Mudded Fitting - and Hangers	0	Ln.Ft.	Abated Summer 2023	(4)
328A	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.		maintain with O&M plan. (7)
328A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	North Wall, Abated Summer 2023	(4)
328A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	West Wall, Abated Summer 2023	(4)
328A	25	Fire Rated Door - Wood w/ 3inx24in Window	1	Each		maintain with O&M plan. (7)

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328B	21	Caulk - On Interior Steel Door Frame	1	Sq.Ft.		maintain with O&M plan. (7)
328B	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
328B	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	West Wall, Abated Summer 2023	(4)
328B	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	Above Ceiling, Abated Summer 2023	(4)
329	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	None Found	(0)
329	21	Caulk - On Interior Steel Door Frame	0	Sq.Ft.	Abated Summer 2023	(0)
329	22	Fire Rated Door - Wood, Solid	0	Each	Abated Summer 2023	(0)
329	35	Glue - Assumed Behind Mirror	0	Sq.Ft.	Removed	(0)
329A	21	Caulk - On Interior Steel Door Frame	0	Sq.Ft.	Abated Summer 2023	(0)
329A	22	Fire Rated Door - Wood, Solid	0	Each	Abated Summer 2023	(0)
329A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	Abated Summer 2023	(4)
329A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)
329A	35	Glue - Assumed Behind Mirror	0	Sq.Ft.	Removed	(0)
330	21	Caulk - On Interior Steel Door Frame	0	Sq.Ft.	Abated Summer 2023	(0)
330	22	Fire Rated Door - Wood, Solid	0	Each	Abated Summer 2023	(0)
330	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	Above Ceiling, Abated Summer 2023	(4)

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330	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	0	Ln.Ft.	West Wall, Abated Summer 2023	(4)
330	35	Glue - Assumed Behind Mirror	0	Sq.Ft.	Removed	(0)
334	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	(0)
334	16	Pipe Insulation-Mudded Fitting - and Hangers	2	Ln.Ft.	Inside East Wall	maintain with O&M plan. (7)
334	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
334	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
334	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
335	8	Flooring - Assumed Under Cabinets/Heaters	0	Sq.Ft.	East Wall, None Found	(0)
335	8	Flooring - Assumed Under Cabinets/Heaters	0	Sq.Ft.	North Wall, None Found	(0)
335	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	None Found	(0)
335	21	Caulk - On Interior Steel Door Frame	2	Sq.Ft.	2 Units	maintain with O&M plan. (7)
335	25	Fire Rated Door - Wood w/ 3inx24in Window	2	Each		maintain with O&M plan. (7)
336	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	(0)
336	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
336	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
336	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)

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337	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	()
337	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
337	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
337	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
338	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	()
338	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
338	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
338	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
339	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	()
339	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
339	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
339	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
340	9	Flooring Layer Assumed Under Surface Layer -	0	Sq.Ft.	No Flooring Found, Mastic Only	()
340	22	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
340	27	Caulk - On Interior Steel Door Frame w/ Side Window	1	Sq.Ft.		maintain with O&M plan. (7)
403	2	Pipe Insulation-Mudded Fitting -	30	Ln.Ft.		maintain with O&M plan. (7)

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403	3	Fire Rated Door -	1	Sq.Ft.		maintain with O&M plan. (7)
403	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	1300	Sq.Ft.		maintain with O&M plan. (7)
404	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	1400	Sq.Ft.		maintain with O&M plan. (7)
404	16	Pipe Insulation-Mudded Fitting - and Hangers	27	Ln.Ft.		maintain with O&M plan. (7)
405	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	225	Sq.Ft.		maintain with O&M plan. (7)
405	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)
406	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	150	Sq.Ft.		maintain with O&M plan. (7)
412	9	Flooring Layer Assumed Under Surface Layer -	1500	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
412	16	Pipe Insulation-Mudded Fitting - and Hangers	10	Ln.Ft.		maintain with O&M plan. (7)
503	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	525	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
504	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	60	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
505	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	210	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
506	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	60	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
507	8	Flooring - Assumed Under Cabinets/Heaters	25	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
507	9	Flooring Layer Assumed Under Surface Layer -	1825	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
507	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)

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508	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	80	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
509	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	375	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
510	9	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
510	35	Glue - Assumed Behind Mirror	40	Sq.Ft.	North Wall	maintain with O&M plan. (7)
510	35	Glue - Assumed Behind Mirror	50	Sq.Ft.	South Wall	maintain with O&M plan. (7)
510	53	Glue - Assumed Behind Sound Board	380	Sq.Ft.		maintain with O&M plan. (7)
603	8	Flooring - Assumed Under Cabinets/Heaters	20	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
603	8	Flooring - Assumed Under Cabinets/Heaters	100	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
603	8	Flooring - Assumed Under Cabinets/Heaters	100	Sq.Ft.	North Wall at Cabinet	maintain with O&M plan. (7)
603	16	Pipe Insulation-Mudded Fitting - and Hangers	36	Ln.Ft.		maintain with O&M plan. (7)
603	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	South Wall	maintain with O&M plan. (7)
603	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	North Wall	maintain with O&M plan. (7)
603	38	Caulk - On Interior Steel Transom Frame	2	Sq.Ft.		maintain with O&M plan. (7)
603	39	Glazing - On Interior Steel Transom Window (Material 38)	2	Sq.Ft.		maintain with O&M plan. (7)
604	9	Flooring Layer Assumed Under Surface Layer -	100	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
604	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)

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604	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
604	38	Caulk - On Interior Steel Transom Frame	1	Sq.Ft.		maintain with O&M plan. (7)
604	39	Glazing - On Interior Steel Transom Window (Material 38)	1	Sq.Ft.		maintain with O&M plan. (7)
604	42	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	6x12, North and East Wall	maintain with O&M plan. (7)
604	43	Glazing - On Interior Steel Window (Material 42)	1	Sq.Ft.	6x12, North and East Wall	maintain with O&M plan. (7)
605	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	950	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
605	16	Pipe Insulation-Mudded Fitting - and Hangers	10	Ln.Ft.		maintain with O&M plan. (7)
605	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)
605	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
605	25	Fire Rated Door - Wood w/ 3inx24in Window	1	Each	To Hallway	maintain with O&M plan. (7)
605	38	Caulk - On Interior Steel Transom Frame	1	Sq.Ft.		maintain with O&M plan. (7)
605	39	Glazing - On Interior Steel Transom Window (Material 38)	1	Sq.Ft.		maintain with O&M plan. (7)
605	44	Sink Undercoating - Gray	2	Sq.Ft.	1 Unit, West Wall	maintain with O&M plan. (7)
605	45	Glue - Assumed Behind Visual Display Board	110	Sq.Ft.	North Wall, 2 Units	maintain with O&M plan. (7)
606	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	400	Sq.Ft.		maintain with O&M plan. (7)
606	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)

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606	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
606	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
606	38	Caulk - On Interior Steel Transom Frame	3	Sq.Ft.	North, West and South Wall	maintain with O&M plan. (7)
606	39	Glazing - On Interior Steel Transom Window (Material 38)	3	Sq.Ft.	North, West and South Wall	maintain with O&M plan. (7)
606	42	Caulk - On Interior Steel Window Frame	2	Sq.Ft.	2 Units, 6x15, Entire East Wall	maintain with O&M plan. (7)
606	43	Glazing - On Interior Steel Window (Material 42)	2	Sq.Ft.	2 Units, 6x15, Entire East Wall	maintain with O&M plan. (7)
606	45	Glue - Assumed Behind Visual Display Board	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
606	46	Fire Rated Door - Wood w/ 6"x60" Window	1	Each	Hallway Door	maintain with O&M plan. (7)
606	47	Chalk Board - Green	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
607	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	950	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
607	16	Pipe Insulation-Mudded Fitting - and Hangers	14	Ln.Ft.		maintain with O&M plan. (7)
607	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)
607	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
607	38	Caulk - On Interior Steel Transom Frame	1	Sq.Ft.		maintain with O&M plan. (7)
607	39	Glazing - On Interior Steel Transom Window (Material 38)	1	Sq.Ft.		maintain with O&M plan. (7)
607	44	Sink Undercoating - Gray	2	Sq.Ft.	1 Unit, West Wall	maintain with O&M plan. (7)

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607	45	Glue - Assumed Behind Visual Display Board	110	Sq.Ft.	South Wall, 2 Units	maintain with O&M plan. (7)
607	46	Fire Rated Door - Wood w/ 6"x60" Window	2	Each		maintain with O&M plan. (7)
608	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	120	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
608	16	Pipe Insulation-Mudded Fitting - and Hangers	8	Ln.Ft.		maintain with O&M plan. (7)
608	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
608	38	Caulk - On Interior Steel Transom Frame	1	Sq.Ft.		maintain with O&M plan. (7)
608	39	Glazing - On Interior Steel Transom Window (Material 38)	1	Sq.Ft.		maintain with O&M plan. (7)
608	42	Caulk - On Interior Steel Window Frame	1	Sq.Ft.	6x12, North and East Wall	maintain with O&M plan. (7)
608	43	Glazing - On Interior Steel Window (Material 42)	1	Sq.Ft.	6x12, North and East Wall	maintain with O&M plan. (7)
705	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
705	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
706	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
706	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
707	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
707	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
708	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)

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708	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
709	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
709	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
710	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
710	9	Flooring Layer Assumed Under Surface Layer -	770	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
806	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
806	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	East Wall at Heater	maintain with O&M plan. (7)
806	9	Flooring Layer Assumed Under Surface Layer -	900	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
806	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
807	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
807	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	West Wall at Heater	maintain with O&M plan. (7)
807	9	Flooring Layer Assumed Under Surface Layer -	900	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
807	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
808	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
808	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	East Wall at Heater	maintain with O&M plan. (7)
808	9	Flooring Layer Assumed Under Surface Layer -	825	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)

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808	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
809	8	Flooring - Assumed Under Cabinets/Heaters	200	Sq.Ft.	Under Cabinets	maintain with O&M plan. (7)
809	9	Flooring Layer Assumed Under Surface Layer -	1000	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
812	8	Flooring - Assumed Under Cabinets/Heaters	90	Sq.Ft.	Assumed Under Cabinets	maintain with O&M plan. (7)
812	9	Flooring Layer Assumed Under Surface Layer -	1100	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
812	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)
814	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
814	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
814	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	900	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
814	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
816	8	Flooring - Assumed Under Cabinets/Heaters	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
816	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	West Wall at Heater	maintain with O&M plan. (7)
816	9	Flooring Layer Assumed Under Surface Layer -	1050	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
816	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
817	8	Flooring - Assumed Under Cabinets/Heaters	120	Sq.Ft.	Under Cabinets	maintain with O&M plan. (7)
817	9	Flooring Layer Assumed Under Surface Layer -	1000	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)

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817	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)
818A	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
818A	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
818A	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	875	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
818A	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)
818A	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
818B	8	Flooring - Assumed Under Cabinets/Heaters	30	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
818B	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
818B	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	875	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
818B	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)
818B	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	North Wall at Heater	maintain with O&M plan. (7)
820	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	80	Sq.Ft.		maintain with O&M plan. (7)
821	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
821	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
821	9	Flooring Layer Assumed Under Surface Layer -	1350	Sq.Ft.	Assumed Under Floor Tile	maintain with O&M plan. (7)
821	16	Pipe Insulation-Mudded Fitting - and Hangers	4	Ln.Ft.		maintain with O&M plan. (7)

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824	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
824	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	850	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
824	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
825	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
825	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	North Wall at Heater	maintain with O&M plan. (7)
825	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	850	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
825	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
826	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	South Wall at Cabinet	maintain with O&M plan. (7)
826	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
826	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	850	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
826	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
827	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	375	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
828	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	North Wall at Cabinet	maintain with O&M plan. (7)
828	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
828	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	850	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
828	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)

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829	8	Flooring - Assumed Under Cabinets/Heaters	32	Sq.Ft.	North Wall at Cabinet	maintain with O&M plan. (7)
829	8	Flooring - Assumed Under Cabinets/Heaters	10	Sq.Ft.	South Wall at Heater	maintain with O&M plan. (7)
829	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	850	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
829	24	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
Boiler Room	3	Fire Rated Door -	1	Sq.Ft.		maintain with O&M plan. (7)
Corr. 204	16	Pipe Insulation-Mudded Fitting - and Hangers	125	Ln.Ft.		maintain with O&M plan. (7)
Corr. 300B	16	Pipe Insulation-Mudded Fitting - and Hangers	30	Ln.Ft.		maintain with O&M plan. (7)
Corr. 302	16	Pipe Insulation-Mudded Fitting - and Hangers	60	Ln.Ft.	Includes 2 Roof Drains and 4 Hangers	maintain with O&M plan. (7)
Corr. 401	16	Pipe Insulation-Mudded Fitting - and Hangers	80	Ln.Ft.	Includes 2 Roof Drains	maintain with O&M plan. (7)
Corr. 402	16	Pipe Insulation-Mudded Fitting - and Hangers	25	Ln.Ft.		maintain with O&M plan. (7)
Corr. 501A	29	Spray on Fireproofing - Gray, Fluffy	0	Sq.Ft.	Abated Spring 2023	(4)
Corr. 502	11	Floor Tile & Mastic - 9 inch, Off White w/ Maroon Streaks, Black Mastic	380	Sq.Ft.	Under Carpet	maintain with O&M plan. (7)
Corr. 502	16	Pipe Insulation-Mudded Fitting - and Hangers	12	Ln.Ft.		maintain with O&M plan. (7)
Corr. 602	16	Pipe Insulation-Mudded Fitting - and Hangers	54	Ln.Ft.		maintain with O&M plan. (7)
Corr. 804	16	Pipe Insulation-Mudded Fitting - and Hangers	8	Ln.Ft.	2 Drains, 2 Fittings & 3 Hangers	maintain with O&M plan. (7)
Custodian Office	3	Fire Rated Door -	1	Sq.Ft.		maintain with O&M plan. (7)

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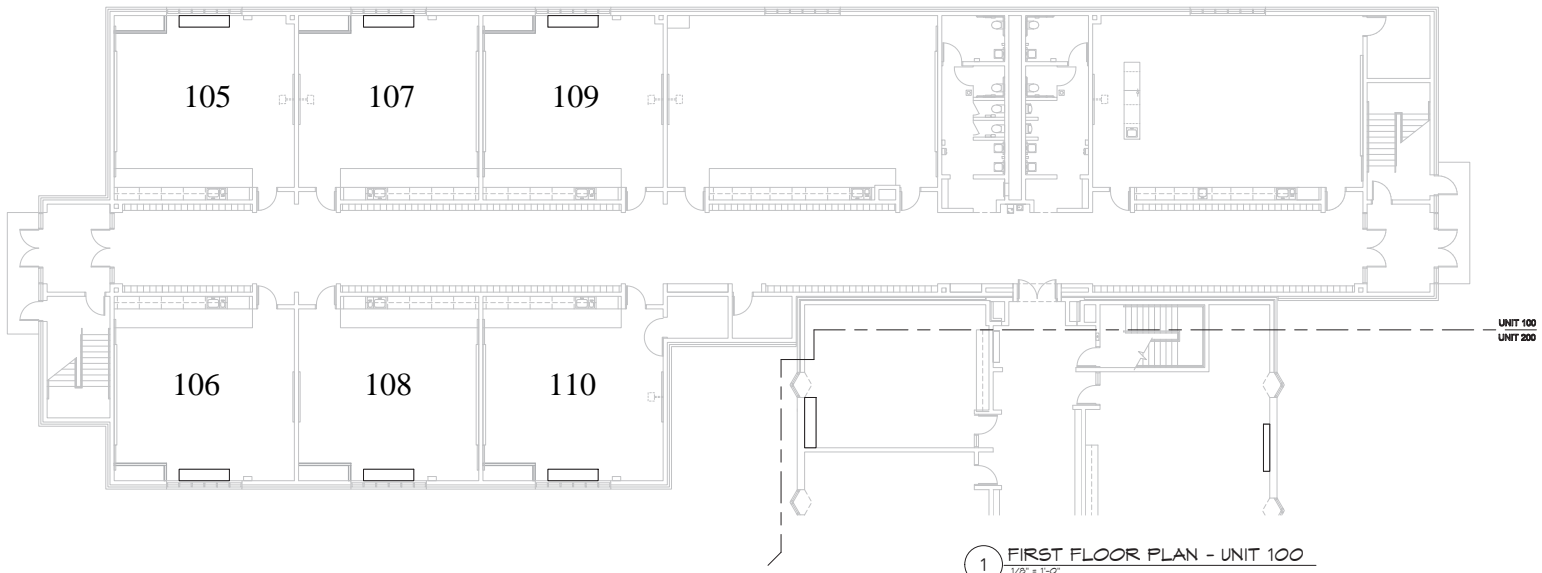
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Gym	4	Tar, Felt & Associated Mastic Layers Under Wood Floor -	4000	Sq.Ft.		maintain with O&M plan. (7)
Hall 333	8	Flooring - Assumed Under Cabinets/Heaters	0	Sq.Ft.	None Found	(0)
Hall 333	9	Flooring Layer Assumed Under Surface Layer -	425	Sq.Ft.	No Flooring Found, Mastic Only	maintain with O&M plan. (7)
Hall 333	25	Fire Rated Door - Wood w/ 3inx24in Window	2	Each		maintain with O&M plan. (7)
Main Entry	29	Spray on Fireproofing - Gray, Fluffy	400	Sq.Ft.	Above Exterior Soffit	maintain with O&M plan. (7)
Roof Access	3	Fire Rated Door -	1	Sq.Ft.		maintain with O&M plan. (7)
Serving	1	Floor Tile & Mastic -	0	Sq.Ft.	Abated July 2017	maintain with O&M plan. (7)
Supply Room	3	Fire Rated Door -	1	Sq.Ft.		maintain with O&M plan. (7)

Floor Plan

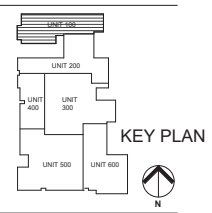


1 FIRST FLOOR PLAN - UNIT 100
1/8" = 1'-0"

MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools

440 South Bradley St.
Mount Pleasant, MI 48858



KEY PLAN



ARCHITECTURAL PLAN KEYNOTES

11. WILL DISTINGUISH BETWEEN TOOTH-HISTOLOGY ACQUAINTED SURFACES. REMOVE JEWELRY, GLOVES AND TOOTH-NIP AND DISPOSE IN SIZE COLOR FROM 1 SOURCE.
12. WILL HONOR HISTORICAL PROTECTION REGION. REFUSE TO DETAIL. 30%.
13. AVOIDANCE OF PERSONAL. WITH FACING HISTORICAL MALL.
14. LINE OF SIGHT/BLINDAGE ABOVE REFUSE TO REFLECT GELING PLAN.
15. WITHIN SERVICE EQUIPMENT TO REMAIN.
16. WITHIN SERVICE EQUIPMENT. REFUSE TO FOOD SERVICE DRAWINGS.
17. DISTINGUISH FROM SINK TO REMAIN.
18. DISTINGUISH CORRELOR GELING CONTRACTOR TO REMAIN. GELING 6 AND 8.0. REPAIR AS NECESSARY AND MATCH DISTINGUISH. REFUSE TO HISTORICAL. 30%.
19. WITHIN SERVICE EQUIPMENT. REFUSE TO HISTORICAL CONTRACTOR.
20. NEW EQUIPMENT. REFUSE TO HISTORICAL.
21. 40% FROM CAR. PHOTOS. ALL. 40%.
22. HISTORY CAR. AS REQUIRED FOR REPLACEMENT OF NEW. 40%.
23. REFUSE TO HISTORICAL DRAWINGS. REFUSE TO NEW CONTRACTOR. 40% AND FINISHED. 40%.
24. 40% FROM CAR. PHOTOS. ALL. 40%.
25. NEW EQUIPMENT. REFUSE TO HISTORICAL.
26. NEW EQUIPMENT. REFUSE TO HISTORICAL. 40%.
27. NEW EQUIPMENT. REFUSE TO HISTORICAL. 40%.
28. NEW EQUIPMENT. REFUSE TO HISTORICAL. 40%.
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100. NEW EQUIPMENT. REFUSE TO HISTORICAL. 40%.



Kingscott

259 East Michigan Ave., Suite 308
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P: 269.381.4880 | F: 269.382.9110
800.632.7815

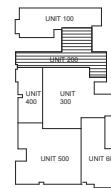
**MOUNT PLEASANT
MIDDLE SCHOOL**

Mt. Pleasant Public Schools

440 South Bradley St.
Mount Pleasant, MI 48858



ISSUANCE	DATE
DESIGN DEVELOPMENT	06/30/2022
OWNER REVIEW	9/29/2022
BID AND CONSTRUCTION	10/12/2022



KEY PLAN

FIRST FLOOR PLAN - UNIT
200

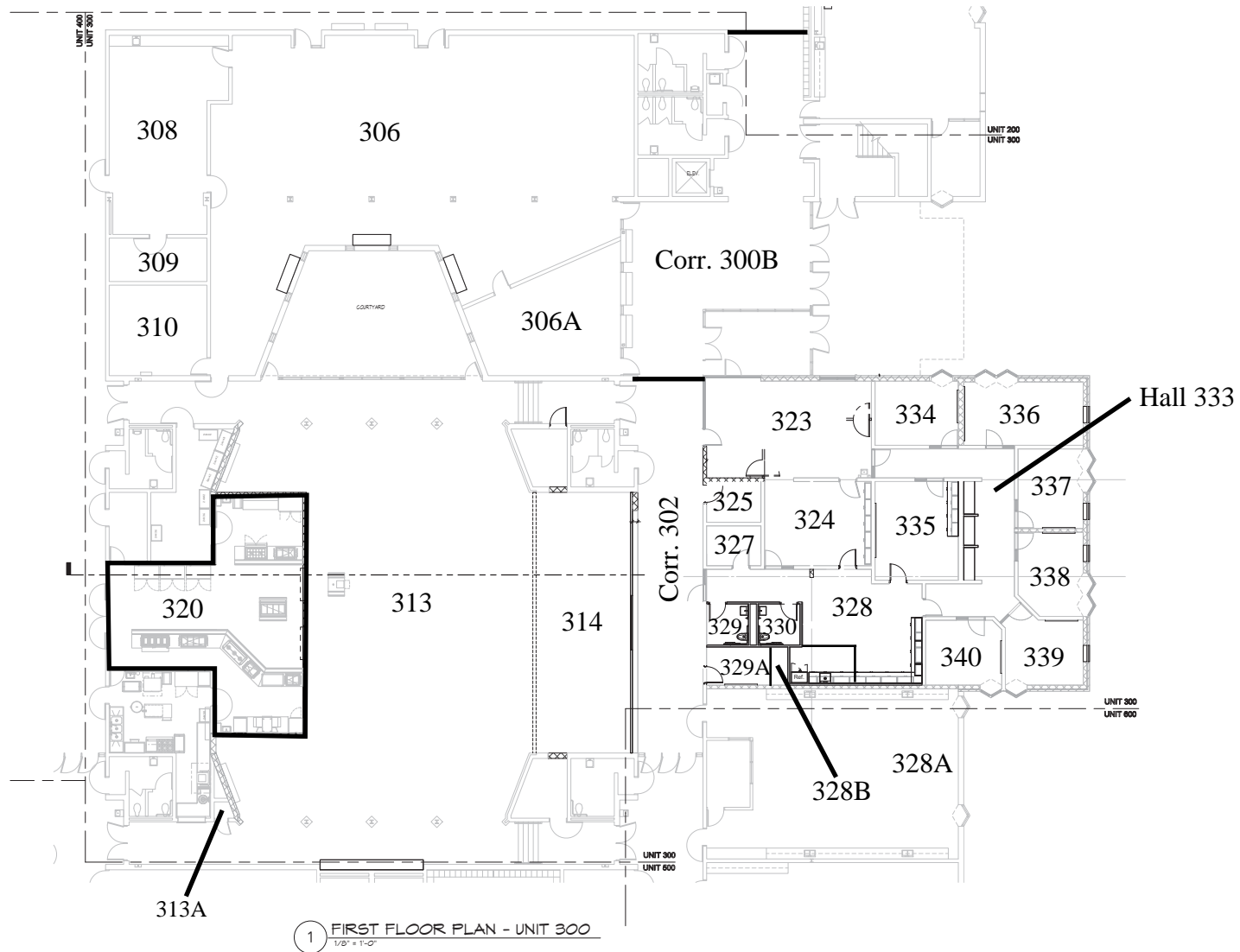
M-A1.02

 KINGSCOTT ASSOCIATES INC.

KALAMAZOO

NSERT ISSUANCE HERE

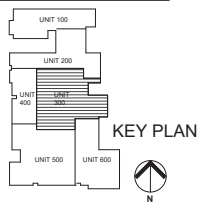
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MOUNT PLEASANT MIDDLE SCHOOL

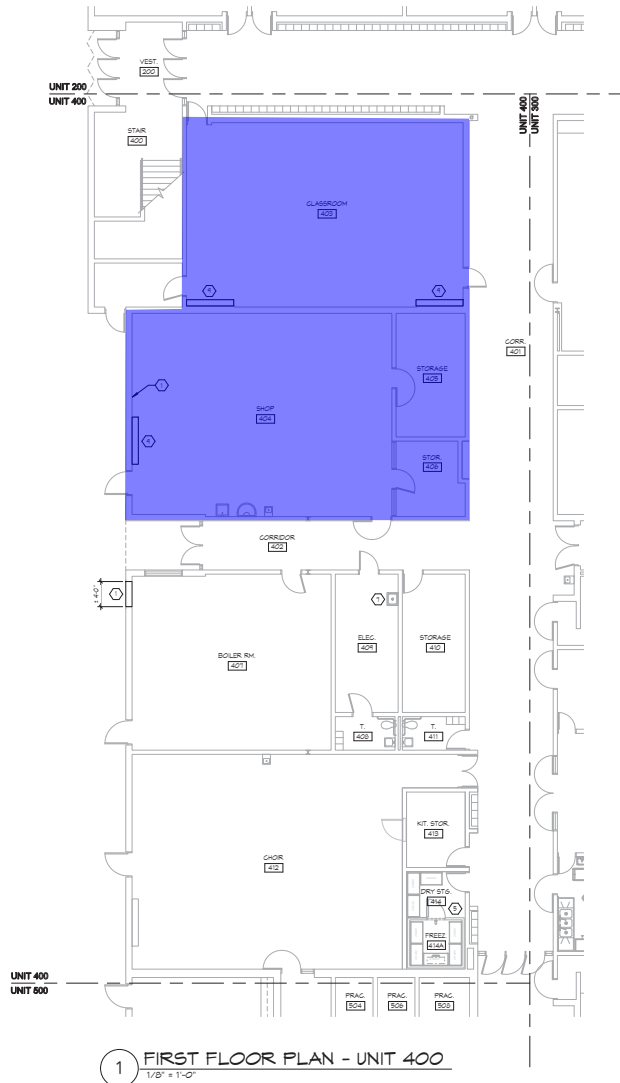
Mt. Pleasant Public Schools

440 South Bradley St.
Mount Pleasant, MI 48858






 = Known Asbestos Floor Covering



ARCHITECTURAL GENERAL NOTES

1.  LOCATES CONSTRUCTION DOCUMENT ROOM NUMBERS.
2. REFER TO EQUIPMENT PLANS FOR CASEWORK, VISUAL DISPLAY BOARDS, LOCKERS, SHELVING, ETC.
3. REFER TO COLOR LAYOUT PLANS FOR FLOOR FINISH PATTERNS AND COLORS.
4. CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS, ETC. WITH APPROPRIATE TRADES.
5. REFER TO DIMENSIONED PLANS FOR ADDITIONAL NOTES AND DIMENSIONS.
6. MASONRY CONTRACTOR TO INSTALL JOIST UNITS FOR MISCELLANEOUS OPENINGS NOT INDICATED ON DRAWINGS BUT REQUIRED FOR MECHANICAL, ELECTRICAL, FOOD SERVICE EQUIPMENT OR OTHER ITEMS THAT PASS THROUGH A WALL. STEEL UNITS SHALL BE SUPPLIED BY THE STEEL CONTRACTOR.
7. ALL PARTITION WALLS TO RUN TIGHT TO DECK UNITS.
8. REFER TO PARTITION TYPES SHOWN ON REFLECTED CEILING PLANS AND PARTITION TYPE SHEET - M-A24.
9. REFER TO SHEET - M-612 FOR FLOOR PLAN SYMBOLS LEGEND.
10. ALL CHU PARTITION WALLS SHALL BE 2\"/>

ARCHITECTURAL PLAN KEYNOTES

1. FILL EXISTING OPENINGS TO MATCH EXISTING ADJACENT SURFACES. REMOVE WHOLE MASONRY UNITS AND TOOTH IN NEW UNITS MATCHING IN SIZE, COLOR, FINISH & CORNER.
2. WALL MOUNTED MOTORIZED PROJECTION SCREEN - REFER TO DETAIL 10-A-1.
3. ALUM. FACE OF NEW WALL WITH FACE OF EXISTING MASONRY WALL.
4. LINE OF SOFFIT/BLANKET ABOVE REFER TO REFLECTED CEILING PLAN.
5. EXISTING KITCHEN SERVICE EQUIPMENT TO REMAIN.
6. KITCHEN SERVICE EQUIPMENT - REFER TO FOOD SERVICE DRAWINGS.
7. EXISTING HOP SINK TO REMAIN.
8. EXISTING CORRIDOR CEILING CONTRACTOR TO REINSTALL CEILING & GRID. REPLACE AS NECESSARY AND MATCH EXISTING. REFER TO ARCHITECTURAL SPECIFICATION FOR EXISTING. COORDINATE WITH MECHANICAL CONTRACTOR.
9. NEW EQUIPMENT - REFER TO MECHANICAL.
10. 4\"/>
11. WOODY CASEWORK AS REQUIRED FOR INSTALLATION OF NEW UNIT VENTILATOR - REFER TO MECHANICAL DRAWINGS. PROVIDE NEW COUNTERTOP (PL-4) AND FINISHED END PANEL (PS-1) FOR ANY REMAINING CASEWORK.
12. RB-1 AT ALL FLOOR.
13. NEW DOOR IN NEW OPENING. TOOTH-IN MASONRY. PATCH FLOOR, UNIT, L-6.

Kingscott

KALAMAZOO | GRAND RAPIDS | CHELSEA | ROYAL OAK

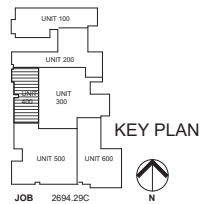
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800.632.7815

MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools
440 South Bradley St.
Mount Pleasant, MI 48858



ISSUANCE	DATE
DESIGN DEVELOPMENT	06/30/2022
OWNER REVIEW	8/28/2022
BID AND CONSTRUCTION	10/12/2022




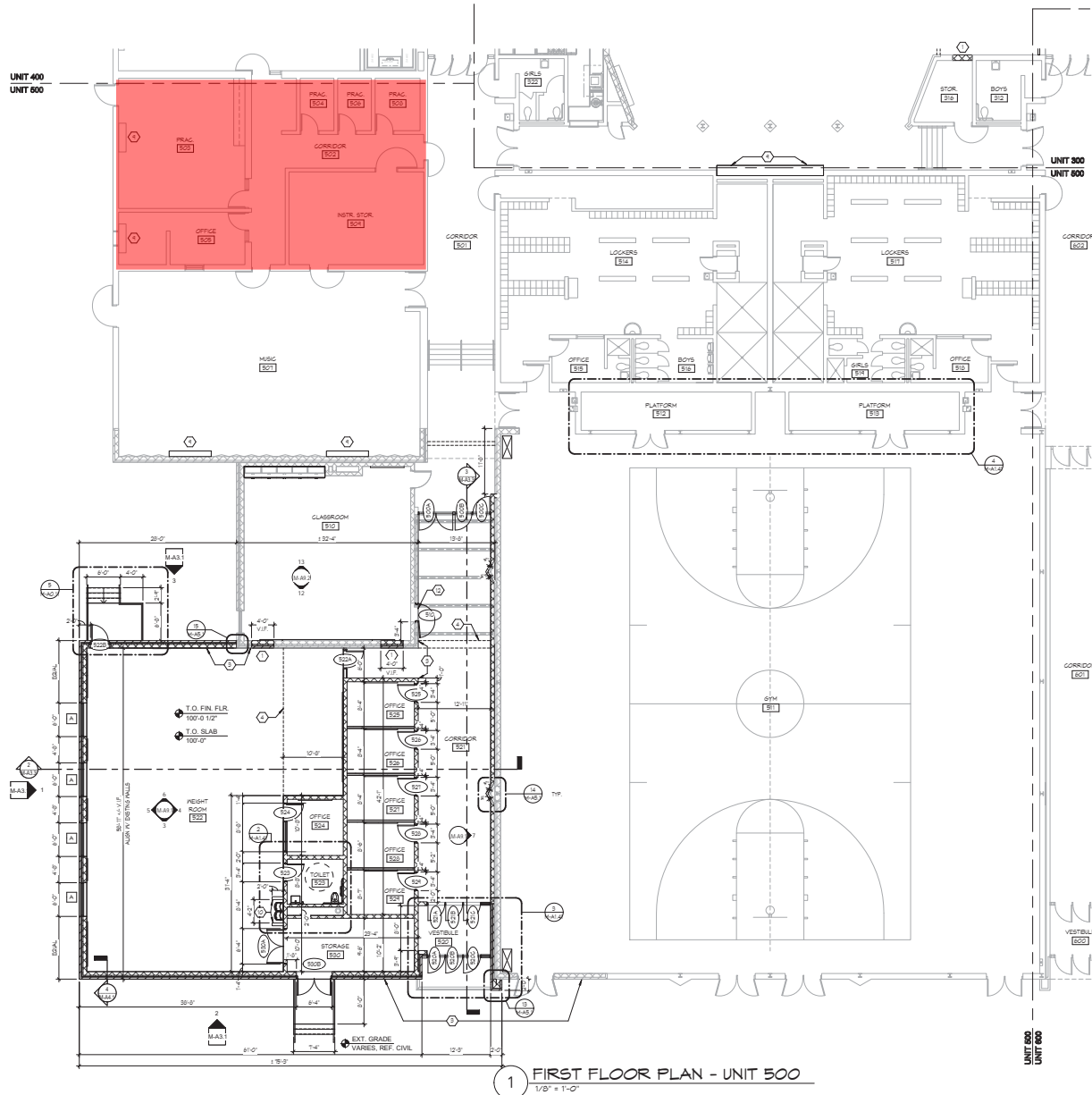
JOB 2694.29C

SHEET TITLE
FIRST FLOOR PLAN - UNIT
400


SHEET
M-A1.04

KINGSCOTT ASSOCIATES INC. KALAMAZOO, MI

 = Known Asbestos Floor Covering Under Carpet



ARCHITECTURAL GENERAL NOTES

1.  LOCATES CONSTRUCTION DOCUMENT ROOM NUMBERS.
2. REFER TO EQUIPMENT PLANS FOR CASEWORK, VISUAL DISPLAY BOARDS, LOCKERS, SHELVING, ETC.
3. REFER TO COLOR LAYOUT PLANS FOR FLOOR FINISH PATTERNS AND COLORS.
4. CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS, ETC. WITH APPROPRIATE TRADES.
5. REFER TO DIMENSIONED PLANS FOR ADDITIONAL NOTES AND DIMENSIONS.
6. MASONRY CONTRACTOR TO INSTALL JOIST UNITS FOR MISCELLANEOUS OPENINGS NOT LOCATED ON DRAWINGS BUT REQUIRED FOR MECHANICAL, ELECTRICAL, T.OOD SERVICE EQUIPMENT OR OTHER ITEMS THAT PASS THROUGH A WALL. STEEL UNITS SHALL BE SUPPLIED BY THE STEEL CONTRACTOR.
7. ALL PARTITION WALLS TO RUN TIGHT TO DECK UNITS.
8. REFER TO PARTITION TYPES SHOWN ON REFLECTED CEILING PLANS AND PARTITION TYPE SHEET: H-A2.4.
9. REFER TO SHEET: H-A1.2 FOR FLOOR PLAN SYMBOLS LEGEND.
10. ALL CHU PARTITION WALLS SHALL BE 2" NOMINAL UNLESS NOTED OTHERWISE.
11. DIMENSIONS SHOWN ARE TO FACE OF CHU WALL OR FACE OF STUD WALL.
12. FILL/SEAL ALL PENETRATIONS THROUGH WALLS & VOIDS AT STRUCTURAL MEMBERS.
13. ALL EXPOSED CHU CORNERS SHALL BE BULLSEYE CORNERS UNLESS NOTED OTHERWISE.
14. GASKET & SEAL AROUND ALL NEW CABINET HANGER LOVERS INSTALLED IN EXTERIOR WALLS.
15. NEW OPENINGS IN EXISTING MASONRY WALLS SHALL BE TIGHTENED TO MATCH EXISTING LOGGING AND MASONRY SIZES UNLESS NOTED OTHERWISE.
16. IN ROOMS RECEIVING NEW UNIT VENTS, PATCH AND REPAIR FLOOR AND WALL FINISHES AS REQUIRED - COORDINATE WITH MECHANICAL DRAWINGS.

ARCHITECTURAL PLAN KEYNOTES

1. FILL EXISTING OPENINGS TO MATCH EXISTING ADJACENT SURFACES. REMOVE WHOLE MASONRY UNITS AND TIGHTEN NEW UNITS MATCHING IN SIZE, COLOR, FINISH & CORNERS.
2. WALL MOUNTED MOTORIZED PROJECTION SCREEN - REFER TO DETAIL: D-10.4.1.
3. ALUM. FACE OF NEW WALL WITH FACE OF EXISTING MASONRY WALL.
4. LINE OF SOFFIT BULKHEAD ABOVE REFER TO REFLECTED CEILING PLAN.
5. EXISTING KITCHEN SERVICE EQUIPMENT TO REMAIN.
6. KITCHEN SERVICE EQUIPMENT - REFER TO T.OOD SERVICE DRAWINGS.
7. EXISTING HOP SINK TO REMAIN.
8. EXISTING CORRIDOR CEILING CONTRACTOR TO REINSTALL CEILING & GRID. REPLACE AS NECESSARY AND MATCH EXISTING. REFER TO ARCHITECTURAL DISCUSSION FOR EXISTING COORDINATE WITH MECHANICAL CONTRACTOR.
9. NEW EQUIPMENT - REFER TO MECHANICAL.
10. 48" HIGH CHU WALLS BULLSEYE ALL AROUND TYP.
11. HODDY CASEWORK AS REQUIRED FOR INSTALLATION OF NEW UNIT VENTILATOR - REFER TO MECHANICAL DRAWINGS. PROVIDE NEW CASEWORK (PL-4) AND FINISHED END PANEL (P-1) FOR ANY REMAINING CASEWORK.
12. REB-1 AT ALL FLOOR.
13. NEW DOOR IN NEW OPENING: TIGHTEN MASONRY PATCH FLOOR, LINER L-9.

Kingscott

KALAMAZOO | GRAND RAPIDS | CHELSEA | ROYAL OAK

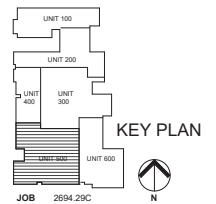
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800.632.7815

MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools
440 South Bradley St.
Mount Pleasant, MI 48858



ISSUANCE	DAT
DESIGN DEVELOPMENT	06/30/2022
OWNER REVIEW	9/28/2022
RIP AND CONSTRUCTION	10/12/2022



JOB 2694.29C

SHEET TITLE
FIRST FLOOR PLAN - UNIT
500

SHEET
M-A1.05

KINGSCOTT ASSOCIATES INC. KALAMAZOO, MI



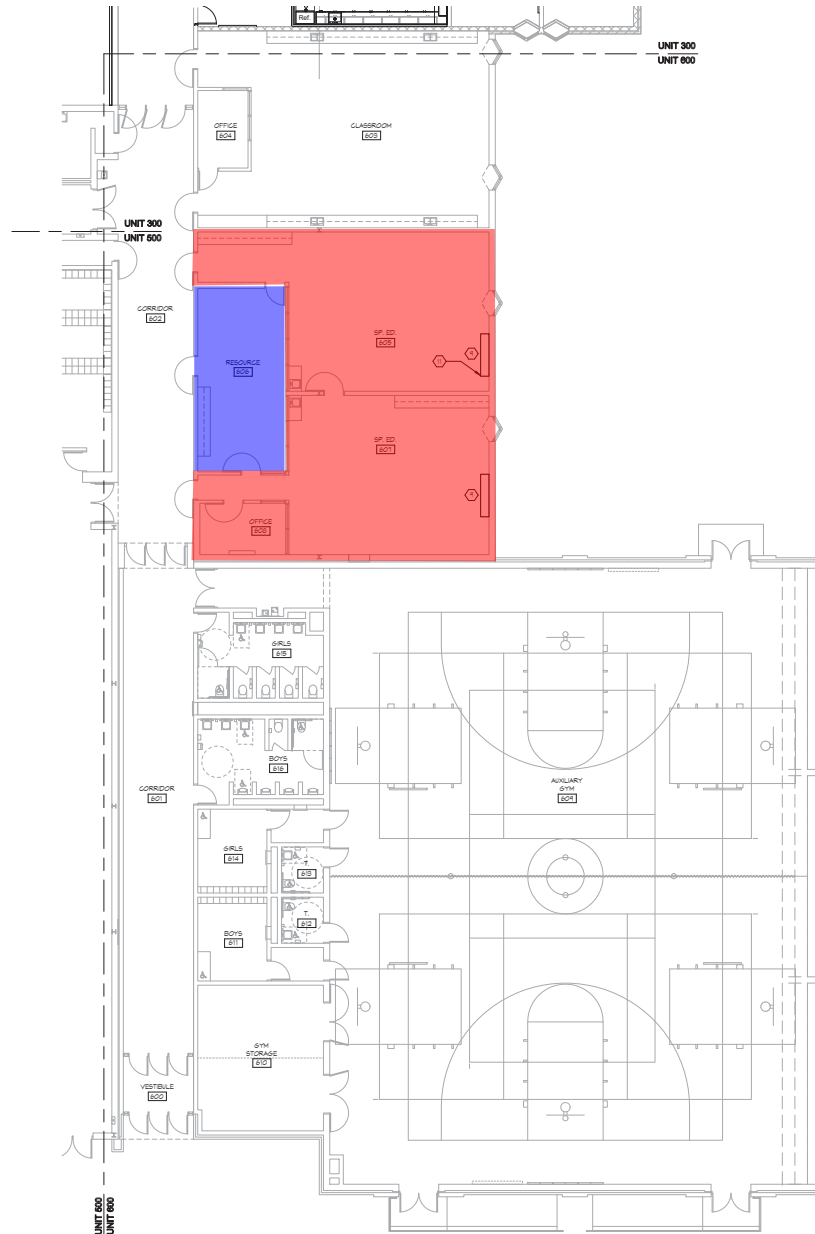
= Known Asbestos Floor Covering Under Carpet

= Known Asbestos Floor Covering

Kingscott

KALAMAZOO | GRAND RAPIDS | CHELSEA | ROYAL OAK

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800.632.7815



ARCHITECTURAL GENERAL NOTES

1. [X] INDICATES CONSTRUCTION DOCUMENT ROOM NUMBERS.
2. REFER TO EQUIPMENT PLANS FOR CASEWORK, VISUAL DISPLAY BOARDS, LOCKERS, SHELVS, ETC.
3. REFER TO COLOR LAYOUT PLANS FOR FLOOR FINISH PATTERNS AND COLORS.
4. CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS, ETC. WITH APPROPRIATE TRADES.
5. REFER TO BALANCED PLANS FOR ADDITIONAL NOTES AND DIMENSIONS.
6. HANGING CONTRACTOR TO INSTALL LOOSE LINTELS FOR MISCELLANEOUS OPENINGS NOT INDICATED ON DRAWINGS BUT REQUIRED FOR MECHANICAL, ELECTRICAL, FOOD SERVICE EQUIPMENT OR OTHER TRADES THAT PASS THROUGH A WALL. STEEL LINTELS SHALL BE SUPPLIED BY THE STEEL CONTRACTOR.
7. ALL PARTITION WALLS TO RUN TIGHT TO DECK UNO.
8. REFER TO PARTITION TYPES SHOWN ON REFLECTED CEILING PLANS AND PARTITION TYPE SHEET - M-A24.
9. REFER TO SHEET - H-612 FOR FLOOR PLAN SYMBOLS (LOADS).
10. ALL GYM PARTITION WALLS SHALL BE 2" NOMINAL UNLESS NOTED OTHERWISE.
11. DIMENSIONS SHOWN ARE TO FACE OF GYM WALL OR FACE OF STUD WALL.
12. FULL SEAL ALL PENETRATIONS THROUGH WALLS & FLOORS AT STRUCTURAL MEMBERS.
13. ALL EXPOSED GYM CORNERS SHALL BE BALANCE CORNERS UNO.
14. CALK & SEAL AROUND ALL NEW CABINET HODER LOVERS INSTALLED IN EXTERIOR WALLS.
15. NEW OPENINGS IN EXISTING MASONRY WALLS SHALL BE TOOTHED IN TO MATCH EXISTING COURSE AND MASONRY SIZE UNO.
16. IN ROOMS RECEIVING NEW UNITS, PATCH AND REPAIR FLOOR AND WALL FINISHES AS REQUIRED - COORDINATE WITH MECHANICAL DRAWINGS.

ARCHITECTURAL PLAN KEYNOTES

1. [X] IN ALL EXISTING OPENINGS TO MATCH EXISTING ADJACENT SURFACES. REMOVE WHOLE MASONRY UNITS AND TOOTH IN NEW UNITS MATCHING IN SIZE, COLOR, FINISH & COURSE.
2. [X] WALL MOUNTED MOTORIZED PROJECTION SCREEN - REFER TO DETAIL 10-615.1.
3. [X] ALIGN FACE OF NEW WALL WITH FACE OF EXISTING MASONRY WALL.
4. [X] LINE OF SLOTTED BLANKHEAD ABOVE REFER TO REFLECTED CEILING PLAN.
5. [X] EXISTING KITCHEN SERVICE EQUIPMENT TO REMAIN.
6. [X] KITCHEN SERVICE EQUIPMENT - REFER TO FOOD SERVICE DRAWINGS.
7. [X] EXISTING HOP SINK TO REMAIN.
8. [X] EXISTING CORRIDOR CEILING CONTRACTOR TO REINSTALL CEILING & GRID. REPLACE AS NECESSARY AND MATCH EXISTING. REFER TO ARCHITECTURAL DEVOLUTION FOR DETAILS. COORDINATE WITH MECHANICAL CONTRACTOR.
9. [X] NEW EQUIPMENT - REFER TO MECHANICAL.
10. [X] 48" HIGH GYM WALLS BULLDOZE ALL AROUND THP.
11. [X] HODER CASEWORK AS REQUIRED FOR INSTALLATION OF NEW UNIT VENTILATOR - REFER TO MECHANICAL DRAWINGS PROVIDE 60" COUNTERTOP (PL-4) AND FINISHED END PANEL (PL-5) FOR ANY REMAINING CASEWORK.
12. [X] NEW DOOR IN NEW OPENING, TOOTH IN MASONRY, PATCH FLOOR, LINTEL & S.

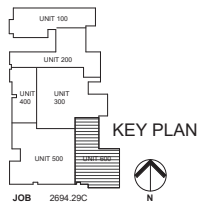
1 FIRST FLOOR PLAN - UNIT 600
1/8" = 1'-0"

MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools
440 South Bradley St.
Mount Pleasant, MI 48858

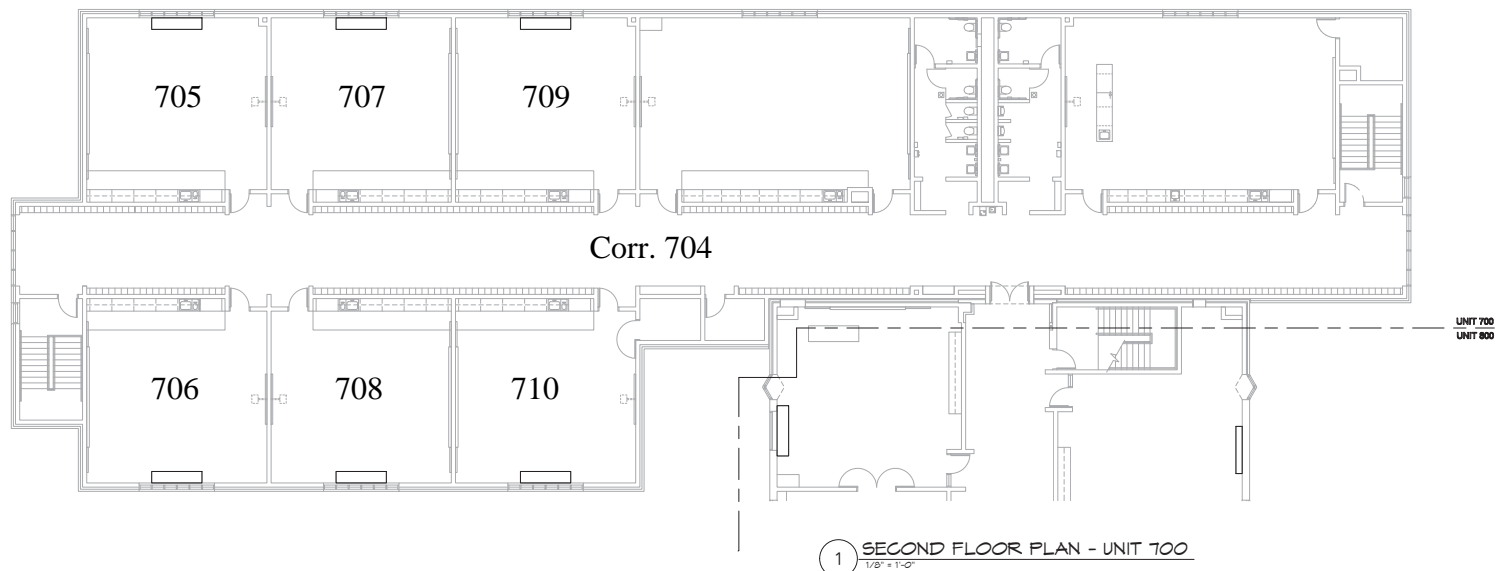


ISSUANCE	DATE
DESIGN DEVELOPMENT	06/30/2022
OWNER REVIEW	8/28/2022
BID AND CONSTRUCTION	10/12/2022



JOB 2694.29C
SHEET TITLE
FIRST FLOOR PLAN - UNIT
600

SHEET
M-A1.06
KINGSCOTT ASSOCIATES INC. KALAMAZOO, MI

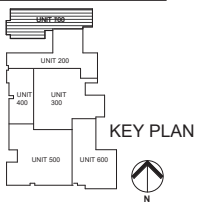


1 SECOND FLOOR PLAN - UNIT 700
1/8" = 1'-0"

MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools

440 South Bradley St.
Mount Pleasant, MI 48858





 = Known Asbestos Floor Covering Under Carpet

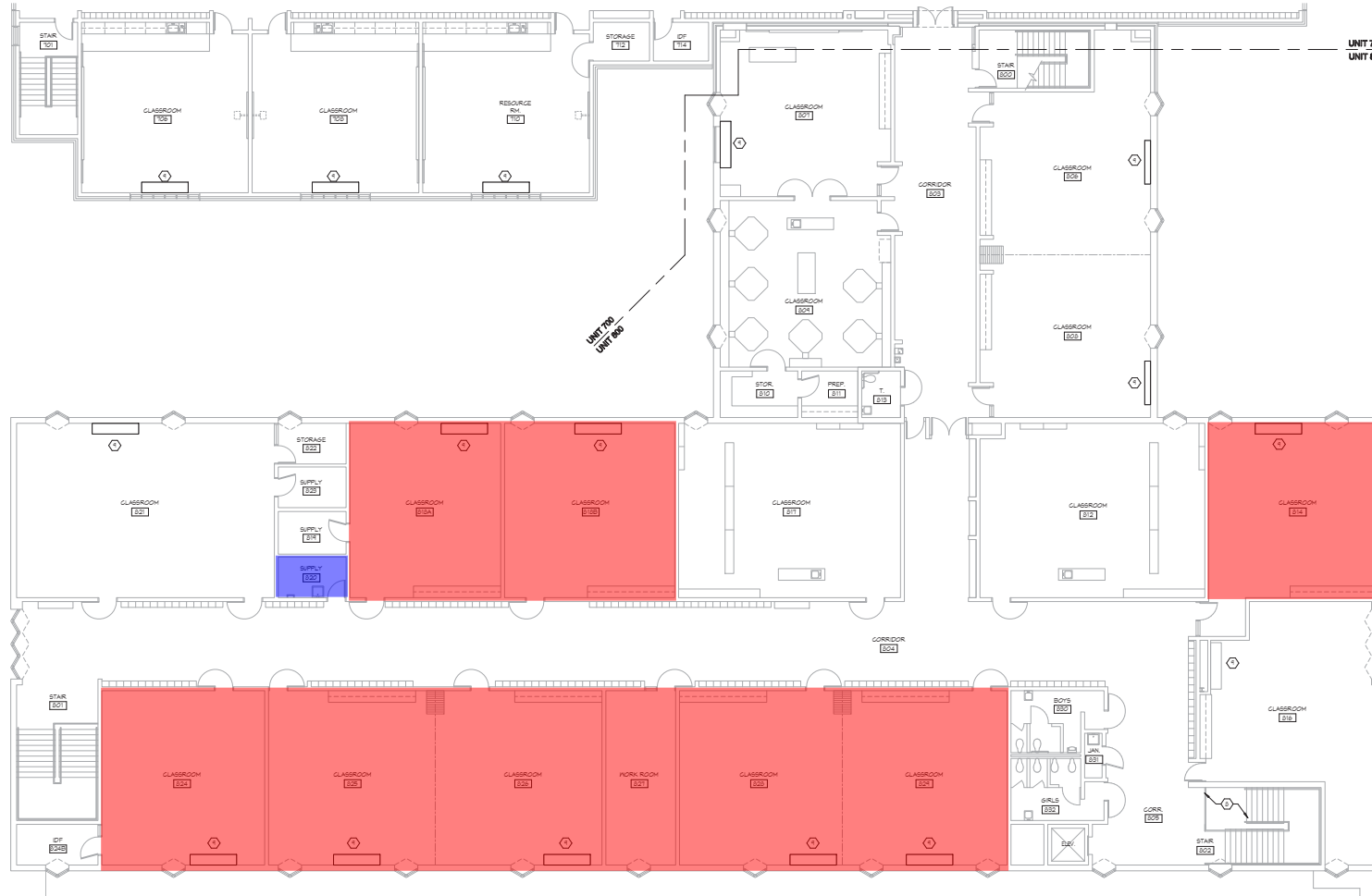
 = Known Asbestos Floor Covering

ARCHITECTURAL GENERAL NOTES

1. [XX] INDICATES CONSTRUCTION DOCUMENT ROOM NUMBERS.
2. REFER TO EQUIPMENT PLANS FOR CASEWORK, VISUAL DISPLAY BOARDS, LOCKERS, SHELVELS, ETC.
3. REFER TO COLOR LAYOUT PLANS FOR FLOOR FINISH PATTERNS AND COLORS.
4. CONTRACTOR SHALL COORDINATE LOCATIONS OF FLOOR DRAINS, CLEAN OUTS, ETC., WITH APPROPRIATE TRADES.
5. REFER TO ENLARGED PLANS FOR ADDITIONAL NOTES AND DIMENSIONS.
6. MASONRY CONTRACTOR TO RETAIL LOOSE UNITS FOR MISCELLANEOUS OPENINGS NOT INDICATED ON DRAWINGS BUT REQUIRED FOR MECHANICAL, ELECTRICAL, FOOD SERVICE EQUIPMENT OR OTHER ITEMS THAT PASS THROUGH A WALL. STEEL UNITS SHALL BE SUPPLIED BY THE STEEL CONTRACTOR.
7. ALL PARTITION WALLS TO RUN TIGHT TO DECK, UNO.
8. REFER TO PARTITION TYPES SHOWN ON REFLECTED CEILING PLANS AND PARTITION TYPE SHEET - H44.X.
9. REFER TO SHEET "H-01" FOR FLOOR PLAN SYMBOLS LEGEND.
10. ALL GYM PARTITION WALLS SHALL BE 8" NOMINAL UNLESS NOTED OTHERWISE.
11. DIMENSIONS SHOWN ARE TO FACE OF CHU WALL OR FACE OF STUD WALL.
12. FILL SEAL ALL PENETRATIONS THROUGH WALLS & VOIDS AT STRUCTURAL MEMBERS.
13. ALL EXPOSED CHU CORNERS SHALL BE BULLNOSE CORNERS UNO.
14. GASK & SEAL AROUND ALL NEW CABINET HEATER COVERS INSTALLED IN EXTERIOR WALLS.
15. NEW OPENINGS IN EXISTING MASONRY WALLS SHALL BE TOOTHED IN TO MATCH EXISTING COURSEING AND MASONRY SIZES UNO.
16. IN ROOMS RECEIVING NEW UNIT VENTS PATCH AND REPAIR FLOOR AND WALL FINISHES AS REQUIRED - COORDINATE WITH MECHANICAL DRAWINGS.

ARCHITECTURAL PLAN KEYNOTES

1. INFILL EXISTING OPENINGS TO MATCH EXISTING ADJACENT SURFACES. REMOVE WHOLE MASONRY UNITS AND TOOTH IN NEW UNITS MATCHING IN SIZE, COLOR, FINISH & COURSEING.
2. WALL MOUNTED MOTORISED PROJECTION SCREEN - REFER TO DETAIL D148.1.
3. ALUM FACE OF NEW WALL WITH FACE OF EXISTING MASONRY WALL.
4. LINE OF SPOFFIT/ BULKHEAD ABOVE. REFER TO REFLECTED CEILING PLAN.
5. EXISTING KITCHEN SERVICE EQUIPMENT TO REMAIN.
6. EXISTING KITCHEN SERVICE EQUIPMENT - REFER TO FOOD SERVICE DRAWINGS.
7. EXISTING HOP SINK TO REMAIN.
8. EXISTING CORRIDOR CEILING CONTRACTOR TO RETAIL CEILING & GRID. REPLACE AS NECESSARY AND MATCH EXISTING. REFER TO ARCHITECTURAL DEMOLITION FOR EXTENTS. COORDINATE WITH MECHANICAL CONTRACTOR.
9. NEW EQUIPMENT - REFER TO MECHANICAL.
10. 48" HIGH CHU WALLS BULLNOSE ALL AROUND THP.
11. MODIFY CASEWORK AS REQUIRED FOR INSTALLATION OF NEW UNIT VENTILATOR - REFER TO MECHANICAL DRAWINGS PROVIDE 60" COUNTERTOP (PL-4) AND FINISHED END PANEL (PL-5) FOR ANY REMAINING CASEWORK.
12. NEW DOOR IN NEW OPENING TOOTH IN MASONRY PATCH FLOOR LINE L-3.



1 SECOND FLOOR PLAN - UNIT 800
1/8" = 1'-0"

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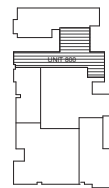
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MOUNT PLEASANT MIDDLE SCHOOL

Mt. Pleasant Public Schools
440 South Bradley St.
Mount Pleasant, MI 48858



ISSUANCE	DAT
DESIGN DEVELOPMENT	06/30/2022
OWNER REVIEW	9/28/2022
BID AND CONSTRUCTION	10/12/2022



KEY PLAN

JOB 2694.29C

SHEET TITLE
SECOND FLOOR PLAN - UNIT
800

SHEET
M-A1.12

KINGSCOTT ASSOCIATES INC. KALAMAZOO, MI

Photos



Damage to fire rated door

Middle School - Custodian Office

Pullen Elementary School

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Pullen Elementary School

251 South Brown Street

Mt. Pleasant, MI 48858

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Ceiling Tile - 2x2 - Random Gouges & Pinholes	Misc.	Yes	No	No	---	None Detected	29540	Sq.Ft.
2	Floor Tile - 12 Inch - Green with Black Specks	Misc.	No	No	No	---	None Detected	2740	Sq.Ft.
3	Fire Rated Door - Wood- With 4 Small Windows	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	600	Sq.Ft.
4	Caulk - Soft - White - Steel Door Frame	Misc.	No	No	No	---	None Detected	28	Sq.Ft.
5	Glazing - Soft - Black - On Steel Door Frame with Sidelight	Misc.	No	No	No	---	None Detected	32	Sq.Ft.
6	Ceiling Tile - 2x4 - Horizontal Gouges & Pinholes	Misc.	Yes	No	No	---	None Detected	2554	Sq.Ft.
7	Caulk - Soft - Grey - On Steel Door Frame with Transom	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	10	Sq.Ft.
8	Glazing - Hard - White - On Steel Door Frame with Transom	Misc.	Category II Non-Friable	Yes	Yes	4%	Chrysotile	4	Sq.Ft.
9	Floor Tile & Mastic - Under Carpet	Misc.	Category I Non-Friable	No	Yes	F-4% M-4%	Chrysotile	0	Sq.Ft.
10	Fire Rated Door - Solid Wood	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	440	Sq.Ft.
11	Caulk - Soft - White - On Steel Door Frame	Misc.	No	No	No	---	None Detected	34	Sq.Ft.
12	Ceiling Tile - 2x2 - Punctures in Circular Pattern	Misc.	Yes	No	No	---	None Detected	1683	Sq.Ft.
13	Floor Tile - 12x12 - White with Black Specks	Misc.	No	No	No	---	None Detected	1965	Sq.Ft.
14	Fire Rated Door - Wood with Narrow Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	100	Sq.Ft.
15	Glazing - Soft - Black - On Wood Door with Narrow Window	Misc.	No	No	No	---	None Detected	1	Sq.Ft.

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RACM = regulated asbestos containing material

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

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Address:

Mt. Pleasant Public Schools

Pullen Elementary School

251 South Brown Street

Mt. Pleasant, MI 48858

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<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
16	Fire Rated Door - Steel	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	320	Sq.Ft.
17	Floor Tile - 12x12 - Tan - Square Pattern	Misc.	No	No	No	---	None Detected	849	Sq.Ft.
18	Fire Rated Door - Steel With 3 Square Windows	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	120	Sq.Ft.
19	Caulk - Soft - Black - On Steel Door Frame	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
20	Flooring Adhesive - Black - Under Carpet	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	1768	Sq.Ft.
21	Fire Rated Door - Steel - With 2 Foot Slit Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
22	Glazing - Soft - Black - On 2 Foot Steel Side Window	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
23	Fire Rated Door - Steel with 3x2 Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	20	Sq.Ft.
24	Caulk - Soft - White - On Aluminum Door Frame	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
25	Floor Tile - 12x12 - Black with White Specks	Misc.	No	No	No	---	None Detected	1183	Sq.Ft.
26	Fire Rated Door - Wood with 3 Foot Slit Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	100	Sq.Ft.
27	Ceiling Tile - 12x12 - Uniform Holes	Misc.	Yes	No	No	---	None Detected	4409	Sq.Ft.
28	Caulk - Hard - Tan - On Wood Door Transom	Misc.	No	No	No	---	None Detected	5	Sq.Ft.
29	Caulk - Hard - Tan - On Wood Door Frame	Misc.	Category II Non-Friable	No	Yes	4%	Chrysotile	4	Sq.Ft.
30	Plaster - Ceiling	Surfacing	No	No	No	---	None Detected	3227	Sq.Ft.

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31	Floor Tile - 12x12 - Green with White Streaks	Misc.	No	No	No	---	None Detected	19	Sq.Ft.
32	Glue - Pods - Behind Visual Display Boards	Misc.	Category II Non-Friable	No	Yes	---	Assumed	4858	Sq.Ft.
33	Cove Base - 4 Inch - Grey	Misc.		No	No	---	None Detected	887	Sq.Ft.
34	Sink Undercoating - Grey	Surfacing	No	No	No	---	None Detected	102	Sq.Ft.
35	Caulk - Soft - Black - On Aluminum Window Frame	Misc.	No	No	No	---	None Detected	64	Sq.Ft.
36	Caulk - Soft - Tan - Around Counter/Cabinets	Misc.	No	No	No	---	None Detected	24	Sq.Ft.
37	Drywall & Joint Compound -	Misc.	No	No	No	---	None Detected	6833	Sq.Ft.
38	Caulk - Expansion Joint - Soft - White	Misc.	No	No	No	---	None Detected	17	Sq.Ft.
39	Pipe Insulation - Assumed in Walls & Ceiling	Thermal	Yes	Yes	Yes	---	Assumed	620	Ln.Ft.
40	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	36	Sq.Ft.
41	Caulk - Expansion Joint - Soft - Tan	Misc.	No	No	No	---	None Detected	6	Sq.Ft.
42	Caulk - Soft - White - On Steel Interior Window Frame	Misc.	No	No	No	---	None Detected	9	Sq.Ft.
43	Sink Undercoating - Pink	Surfacing	Category II Non-Friable	No	Yes	2%	Chrysotile	6	Sq.Ft.
44	Plaster - Wall Patch on North Wall	Surfacing		Yes	Yes	2%	Chrysotile	3	Sq.Ft.
45	Caulk - Expansion - Soft - Grey	Misc.	No	No	No	---	None Detected	1	Sq.Ft.

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46	Ceramic Tile & Grout - 5x5 - Tan	Misc.	Category II Non-Friable	No	Yes	---	Assumed	385	Sq.Ft.
47	Vibration Dampener Cloth - Black	Misc.	No	No	No	---	None Detected	44	Sq.Ft.
48	Flooring - Wood - Gym	Misc.	Category I Non-Friable	No	Yes	---	Assumed	4252	Sq.Ft.
49	Caulk - Soft - Grey - On Steel Door Frame	Misc.	Category II Non-Friable	No	Yes	2%	Chrysotile	2	Sq.Ft.
50	Ceramic Block & Grout - 5x9 - Tan	Misc.	Category II Non-Friable	No	Yes	---	Assumed	530	Sq.Ft.
51	Caulk - Hard - Grey - On Steel Door Frame	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
52	Fire Rated Door - Wood with 3 Horizontal Slit Windows	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
53	Ceramic Block & Grout - 5x9 - Green	Misc.	Category II Non-Friable	No	Yes	---	Assumed	3572	Sq.Ft.
54	Ceiling Tile - 2x2 - Horizontal Gouges & Pinholes	Misc.	Yes	No	No	---	None Detected	143	Sq.Ft.
55	Caulk - Hard - Brown - On Glass Block	Misc.	Category II Non-Friable	No	Yes	5%	Chrysotile	20	Sq.Ft.
56	Cove Base - 4 Inch - Dark Grey	Misc.	No	No	No	---	None Detected	66	Sq.Ft.
57	Ceiling Tile - 2x2 - Random Pinholes	Misc.	Yes	No	No	---	None Detected	724	Sq.Ft.
58	Ceramic Tile & Grout - 4x4 - Tan Blue & Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	99	Sq.Ft.
59	Ceramic Tile & Grout - 4x4 - Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	90	Sq.Ft.
60	Pipe Insulation - Woolfelt	Thermal	Yes	Yes	Yes	5%	Chrysotile	362	Ln.Ft.

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61	Pipe Insulation-Mudded Fitting - On Woolfelt Pipe Insulation	Thermal	Yes	Yes	Yes	30%	Chrysotile	61	Ln.Ft.
62	Caulk - Soft - Tan - Around Lockers	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
63	Flooring Layer Assumed Under Surface Layer - Under Casework	Misc.	Category I Non-Friable	No	Yes	---	Assumed	1828	Sq.Ft.
64	Plaster - Smooth, Walls and Bulkheads	Surfacing	No	No	No	---	None Detected	950	Sq.Ft.

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103	26	Fire Rated Door - Wood with 3 Foot Slit Window	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
103A	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
103A	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
103A	58	Ceramic Tile & Grout - 4x4 - Tan Blue & Grey	99	Sq.Ft.		maintain with O&M plan. (7)
103A	59	Ceramic Tile & Grout - 4x4 - Grey	90	Sq.Ft.		maintain with O&M plan. (7)
105	26	Fire Rated Door - Wood with 3 Foot Slit Window	20	Sq.Ft.		maintain with O&M plan. (7)
106	26	Fire Rated Door - Wood with 3 Foot Slit Window	20	Sq.Ft.		maintain with O&M plan. (7)
108	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
108	14	Fire Rated Door - Wood with Narrow Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
108	32	Glue - Pods - Behind Visual Display Boards	211	Sq.Ft.		maintain with O&M plan. (7)
108	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
110	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
110	20	Flooring Adhesive - Black - Under Carpet	884	Sq.Ft.		maintain with O&M plan. (7)
110	32	Glue - Pods - Behind Visual Display Boards	205	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
110	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
110	63	Flooring Layer Assumed Under Surface Layer - Under Casework	15	Sq.Ft.	East Wall	maintain with O&M plan. (7)

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110	63	Flooring Layer Assumed Under Surface Layer - Under Casework	50	Sq.Ft.	West Wall	maintain with O&M plan. (7)
111	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
111	20	Flooring Adhesive - Black - Under Carpet	884	Sq.Ft.		maintain with O&M plan. (7)
111	32	Glue - Pods - Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
111	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
111	63	Flooring Layer Assumed Under Surface Layer - Under Casework	15	Sq.Ft.	East Wall	maintain with O&M plan. (7)
111	63	Flooring Layer Assumed Under Surface Layer - Under Casework	60	Sq.Ft.	East Wall	maintain with O&M plan. (7)
112	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
112	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
112	63	Flooring Layer Assumed Under Surface Layer - Under Casework	24	Sq.Ft.	West Wall	maintain with O&M plan. (7)
113	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
113	10	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
113	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
113	32	Glue - Pods - Behind Visual Display Boards	155	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
113	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
113	55	Caulk - Hard - Brown - On Glass Block	4	Sq.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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113	63	Flooring Layer Assumed Under Surface Layer - Under Casework	32	Sq.Ft.	South Wall	maintain with O&M plan. (7)
113	63	Flooring Layer Assumed Under Surface Layer - Under Casework	46	Sq.Ft.	North Wall	maintain with O&M plan. (7)
113A	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
114	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
114	32	Glue - Pods - Behind Visual Display Boards	90	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
114	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
114	63	Flooring Layer Assumed Under Surface Layer - Under Casework	8	Sq.Ft.	East Wall	maintain with O&M plan. (7)
114	63	Flooring Layer Assumed Under Surface Layer - Under Casework	16	Sq.Ft.	North Wall	maintain with O&M plan. (7)
115	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
115	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
115	32	Glue - Pods - Behind Visual Display Boards	250	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
115	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
115	55	Caulk - Hard - Brown - On Glass Block	4	Sq.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
115	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	South Wall	maintain with O&M plan. (7)
115	63	Flooring Layer Assumed Under Surface Layer - Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
116T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.	Flooring is Terrazzo	maintain with O&M plan. (7)

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116T	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
116T	53	Ceramic Block & Grout - 5x9 - Green	540	Sq.Ft.	Flooring is Terrazo	maintain with O&M plan. (7)
117T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
117T	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
117T	53	Ceramic Block & Grout - 5x9 - Green	540	Sq.Ft.		maintain with O&M plan. (7)
118	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
118	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
118	32	Glue - Pods - Behind Visual Display Boards	250	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
118	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
118	55	Caulk - Hard - Brown - On Glass Block	4	Sq.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
118	63	Flooring Layer Assumed Under Surface Layer - Under Casework	20	Sq.Ft.	North Wall	maintain with O&M plan. (7)
120	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
120	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
120	32	Glue - Pods - Behind Visual Display Boards	250	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
120	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
120	55	Caulk - Hard - Brown - On Glass Block	4	Sq.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)

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120	63	Flooring Layer Assumed Under Surface Layer - Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
120	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	South Wall	maintain with O&M plan. (7)
122	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
122	16	Fire Rated Door - Steel	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
122	32	Glue - Pods - Behind Visual Display Boards	60	Sq.Ft.	1 Board	maintain with O&M plan. (7)
122A	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
122A	52	Fire Rated Door - Wood with 3 Horizontal Slit Windows	20	Sq.Ft.		maintain with O&M plan. (7)
124	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
124	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
124	32	Glue - Pods - Behind Visual Display Boards	250	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
124	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
124	55	Caulk - Hard - Brown - On Glass Block	4	Sq.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
124	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	South Wall	maintain with O&M plan. (7)
124	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	North Wall	maintain with O&M plan. (7)
126	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
126	16	Fire Rated Door - Steel	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

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126	32	Glue - Pods - Behind Visual Display Boards	120	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
126	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
126	63	Flooring Layer Assumed Under Surface Layer - Under Casework	48	Sq.Ft.	East Wall	maintain with O&M plan. (7)
126	63	Flooring Layer Assumed Under Surface Layer - Under Casework	52	Sq.Ft.	West Wall	maintain with O&M plan. (7)
127	3	Fire Rated Door - Wood- With 4 Small Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
127	10	Fire Rated Door - Solid Wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
127	14	Fire Rated Door - Wood with Narrow Window	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
127	26	Fire Rated Door - Wood with 3 Foot Slit Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
127	32	Glue - Pods - Behind Visual Display Boards	145	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
127	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
127	53	Ceramic Block & Grout - 5x9 - Green	338	Sq.Ft.		maintain with O&M plan. (7)
130	16	Fire Rated Door - Steel	40	Sq.Ft.		maintain with O&M plan. (7)
130	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
130	44	Plaster - Wall Patch on North Wall	3	Sq.Ft.	Northeast Corner on Wall	maintain with O&M plan. (7)
130A	7	Caulk - Soft - Grey - On Steel Door Frame with Transom	2	Sq.Ft.		maintain with O&M plan. (7)
131	10	Fire Rated Door - Solid Wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

Northern Analytical Services

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LEA:
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Pullen Elementary School
3
251 South Brown Street
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Response Action Report

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131	14	Fire Rated Door - Wood with Narrow Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
131	32	Glue - Pods - Behind Visual Display Boards	60	Sq.Ft.	1 Board	maintain with O&M plan. (7)
131	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
131	63	Flooring Layer Assumed Under Surface Layer - Under Casework	12	Sq.Ft.	East Wall	maintain with O&M plan. (7)
131	63	Flooring Layer Assumed Under Surface Layer - Under Casework	12	Sq.Ft.	West Wall	maintain with O&M plan. (7)
131B	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
131C	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
131C	50	Ceramic Block & Grout - 5x9 - Tan	380	Sq.Ft.		maintain with O&M plan. (7)
136	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
136	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
137T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
137T	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
137T	46	Ceramic Tile & Grout - 5x5 - Tan	89	Sq.Ft.		maintain with O&M plan. (7)
137T	53	Ceramic Block & Grout - 5x9 - Green	280	Sq.Ft.		maintain with O&M plan. (7)
138T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
138T	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

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138T	50	Ceramic Block & Grout - 5x9 - Tan	110	Sq.Ft.		maintain with O&M plan. (7)
140	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
140	53	Ceramic Block & Grout - 5x9 - Green	25	Sq.Ft.		maintain with O&M plan. (7)
143	14	Fire Rated Door - Wood with Narrow Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
143	16	Fire Rated Door - Steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
143	32	Glue - Pods - Behind Visual Display Boards	50	Sq.Ft.	1 Board	maintain with O&M plan. (7)
143	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
143	63	Flooring Layer Assumed Under Surface Layer - Under Casework	10	Sq.Ft.	Southwest Wall	maintain with O&M plan. (7)
143	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	East Wall	maintain with O&M plan. (7)
143	63	Flooring Layer Assumed Under Surface Layer - Under Casework	45	Sq.Ft.	West Wall	maintain with O&M plan. (7)
143	63	Flooring Layer Assumed Under Surface Layer - Under Casework	75	Sq.Ft.	North Wall	maintain with O&M plan. (7)
146	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
146	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	(0)
146	32	Glue - Pods - Behind Visual Display Boards	188	Sq.Ft.	4 Boards	maintain with O&M plan. (7)
146	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
146	63	Flooring Layer Assumed Under Surface Layer - Under Casework	65	Sq.Ft.	South Wall	maintain with O&M plan. (7)

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146	63	Flooring Layer Assumed Under Surface Layer - Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
147	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
147	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
147	32	Glue - Pods - Behind Visual Display Boards	14	Sq.Ft.	1 Board	maintain with O&M plan. (7)
147	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
147	63	Flooring Layer Assumed Under Surface Layer - Under Casework	75	Sq.Ft.	South Wall	maintain with O&M plan. (7)
147	63	Flooring Layer Assumed Under Surface Layer - Under Casework	85	Sq.Ft.	North Wall	maintain with O&M plan. (7)
147A	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
147A	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
147A	10	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
147A	32	Glue - Pods - Behind Visual Display Boards	34	Sq.Ft.	1 Board	maintain with O&M plan. (7)
147A	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
147A	63	Flooring Layer Assumed Under Surface Layer - Under Casework	24	Sq.Ft.	South Wall	maintain with O&M plan. (7)
147B	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
147B	63	Flooring Layer Assumed Under Surface Layer - Under Casework	4	Sq.Ft.	West Wall	maintain with O&M plan. (7)
150T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)

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150T	39	Pipe Insulation - Assumed in Walls & Ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
150T	46	Ceramic Tile & Grout - 5x5 - Tan	150	Sq.Ft.		maintain with O&M plan. (7)
151T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
151T	39	Pipe Insulation - Assumed in Walls & Ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
151T	46	Ceramic Tile & Grout - 5x5 - Tan	146	Sq.Ft.		maintain with O&M plan. (7)
152	3	Fire Rated Door - Wood- With 4 Small Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
152	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
152	32	Glue - Pods - Behind Visual Display Boards	144	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
152	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
152	63	Flooring Layer Assumed Under Surface Layer - Under Casework	25	Sq.Ft.	South Wall	maintain with O&M plan. (7)
152	63	Flooring Layer Assumed Under Surface Layer - Under Casework	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
153	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
153	7	Caulk - Soft - Grey - On Steel Door Frame with Transom	2	Sq.Ft.		maintain with O&M plan. (7)
153	8	Glazing - Hard - White - On Steel Door Frame with Transom	1	Sq.Ft.		maintain with O&M plan. (7)
153	32	Glue - Pods - Behind Visual Display Boards	184	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
153	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

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153	63	Flooring Layer Assumed Under Surface Layer - Under Casework	40	Sq.Ft.	South Wall	maintain with O&M plan. (7)
153	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	North Wall	maintain with O&M plan. (7)
154	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
154	7	Caulk - Soft - Grey - On Steel Door Frame with Transom	2	Sq.Ft.		maintain with O&M plan. (7)
154	8	Glazing - Hard - White - On Steel Door Frame with Transom	1	Sq.Ft.		maintain with O&M plan. (7)
154	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
154	32	Glue - Pods - Behind Visual Display Boards	215	Sq.Ft.	4 Boards	maintain with O&M plan. (7)
154	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
154	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	South Wall	maintain with O&M plan. (7)
154	63	Flooring Layer Assumed Under Surface Layer - Under Casework	25	Sq.Ft.	North Wall	maintain with O&M plan. (7)
155	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
155	7	Caulk - Soft - Grey - On Steel Door Frame with Transom	2	Sq.Ft.		maintain with O&M plan. (7)
155	8	Glazing - Hard - White - On Steel Door Frame with Transom	1	Sq.Ft.		maintain with O&M plan. (7)
155	32	Glue - Pods - Behind Visual Display Boards	814	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
155	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
155	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	South Wall	maintain with O&M plan. (7)

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155	63	Flooring Layer Assumed Under Surface Layer - Under Casework	40	Sq.Ft.	North Wall	maintain with O&M plan. (7)
156	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
156	7	Caulk - Soft - Grey - On Steel Door Frame with Transom	2	Sq.Ft.		maintain with O&M plan. (7)
156	8	Glazing - Hard - White - On Steel Door Frame with Transom	1	Sq.Ft.		maintain with O&M plan. (7)
156	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
156	32	Glue - Pods - Behind Visual Display Boards	200	Sq.Ft.	4 Boards	maintain with O&M plan. (7)
156	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
156	43	Sink Undercoating - Pink	6	Sq.Ft.	1 Large Sink	maintain with O&M plan. (7)
156	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	South Wall	maintain with O&M plan. (7)
156	63	Flooring Layer Assumed Under Surface Layer - Under Casework	35	Sq.Ft.	North Wall	maintain with O&M plan. (7)
157	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
157T	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
157T	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
160	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
160	32	Glue - Pods - Behind Visual Display Boards	184	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
160	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

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160	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	North Wall	maintain with O&M plan. (7)
161	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
161	32	Glue - Pods - Behind Visual Display Boards	184	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
161	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
161	63	Flooring Layer Assumed Under Surface Layer - Under Casework	32	Sq.Ft.	South Wall	maintain with O&M plan. (7)
161	63	Flooring Layer Assumed Under Surface Layer - Under Casework	44	Sq.Ft.	North Wall	maintain with O&M plan. (7)
162	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
162	32	Glue - Pods - Behind Visual Display Boards	198	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
162	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
162	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	South Wall	maintain with O&M plan. (7)
162	63	Flooring Layer Assumed Under Surface Layer - Under Casework	50	Sq.Ft.	North Wall	maintain with O&M plan. (7)
163	3	Fire Rated Door - Wood- With 4 Small Windows	20	Sq.Ft.		maintain with O&M plan. (7)
163	32	Glue - Pods - Behind Visual Display Boards	198	Sq.Ft.	3 Boards	maintain with O&M plan. (7)
163	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
163	63	Flooring Layer Assumed Under Surface Layer - Under Casework	55	Sq.Ft.	South Wall	maintain with O&M plan. (7)
163	63	Flooring Layer Assumed Under Surface Layer - Under Casework	50	Sq.Ft.	North Wall	maintain with O&M plan. (7)

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Boiler Room	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
Boiler Room	16	Fire Rated Door - Steel	20	Sq.Ft.		maintain with O&M plan. (7)
Cust 1	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
Cust 1	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
Gym	3	Fire Rated Door - Wood- With 4 Small Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
Gym	10	Fire Rated Door - Solid Wood	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
Gym	16	Fire Rated Door - Steel	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
Gym	48	Flooring - Wood - Gym	4252	Sq.Ft.		maintain with O&M plan. (7)
Gym	49	Caulk - Soft - Grey - On Steel Door Frame	2	Sq.Ft.	1 Double Frame	maintain with O&M plan. (7)
Gym	50	Ceramic Block & Grout - 5x9 - Tan	40	Sq.Ft.		maintain with O&M plan. (7)
Gym B	52	Fire Rated Door - Wood with 3 Horizontal Slit Windows	20	Sq.Ft.		maintain with O&M plan. (7)
H1	18	Fire Rated Door - Steel With 3 Square Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
H1	21	Fire Rated Door - Steel - With 2 Foot Slit Window	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
H1	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
H2	9	Floor Tile & Mastic - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
H2	18	Fire Rated Door - Steel With 3 Square Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

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H2	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
H2	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
H3	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
H3	23	Fire Rated Door - Steel with 3x2 Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
H3	32	Glue - Pods - Behind Visual Display Boards	45	Sq.Ft.	1 Board	maintain with O&M plan. (7)
H3	39	Pipe Insulation - Assumed in Walls & Ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
H3	53	Ceramic Block & Grout - 5x9 - Green	324	Sq.Ft.		maintain with O&M plan. (7)
H4	18	Fire Rated Door - Steel With 3 Square Windows	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
H4	20	Flooring Adhesive - Black - Under Carpet	0	Sq.Ft.	Removed summer of 2018	()
H4	29	Caulk - Hard - Tan - On Wood Door Frame	2	Sq.Ft.	1 Frame	maintain with O&M plan. (7)
H4	29	Caulk - Hard - Tan - On Wood Door Frame	2	Sq.Ft.	1 Frame	maintain with O&M plan. (7)
H4	53	Ceramic Block & Grout - 5x9 - Green	1525	Sq.Ft.		maintain with O&M plan. (7)
H4	60	Pipe Insulation - Woolfelt	362	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H4	61	Pipe Insulation-Mudded Fitting - On Woolfelt Pipe Insulation	61	Ln.Ft.	Above Ceiling Tile	maintain with O&M plan. (7)
H5	16	Fire Rated Door - Steel	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
H7	16	Fire Rated Door - Steel	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

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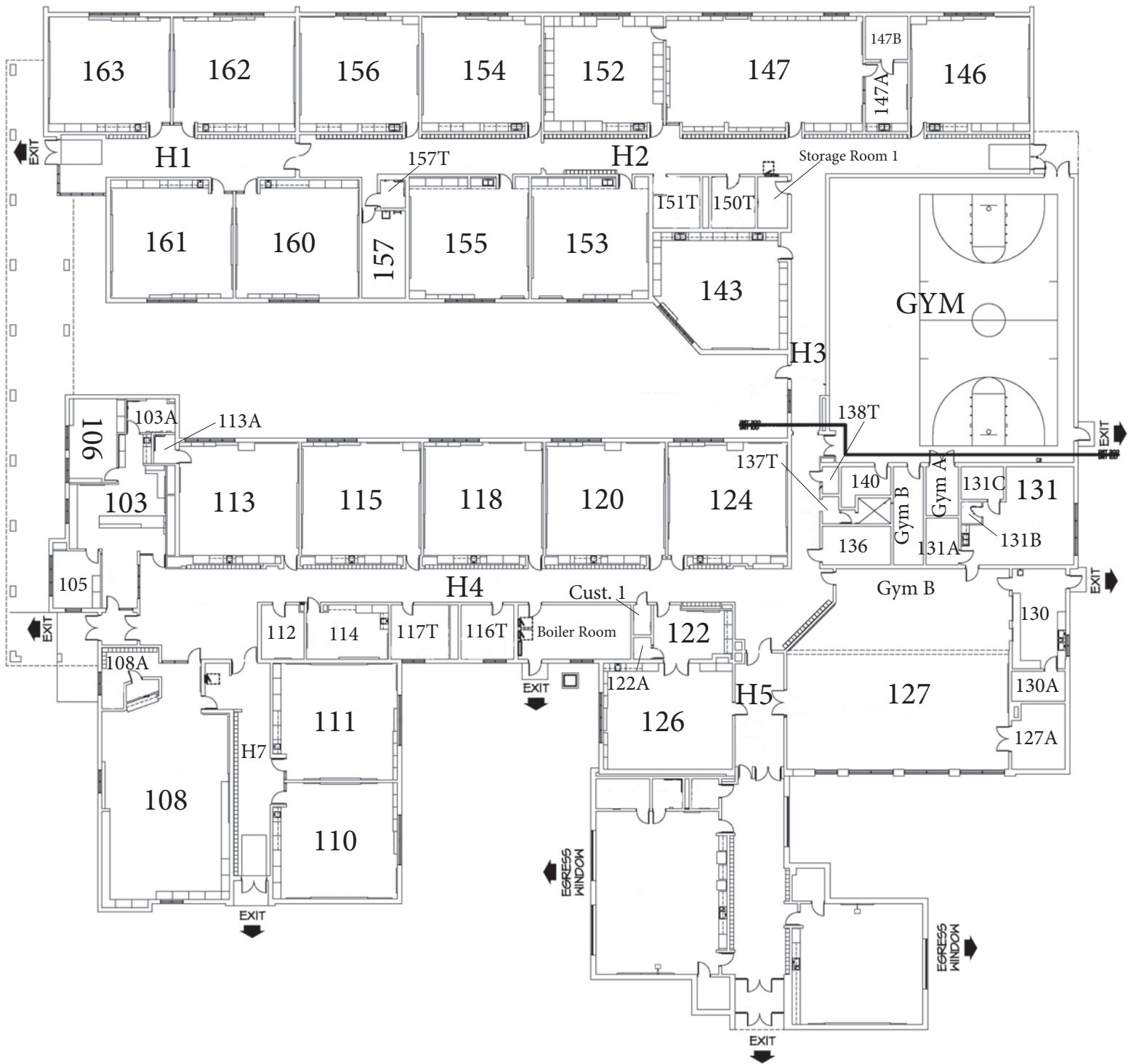
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H7	39	Pipe Insulation - Assumed in Walls & Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
Storage Room 1	10	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
Storage Room 1	39	Pipe Insulation - Assumed in Walls & Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

Floor Plan



Pullen Elementary School

- = Asbestos Flooring Previously Abated
- = Known Asbestos Flooring Under Carpet



Pullen Elementary School

Ganiard Elementary School

Material Report

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Mt. Pleasant, MI 48858

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February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Ceiling Tile - 2x2 - Bumpy - with Random Pin Holes	Misc.	Yes	No	No	---	None Detected	19336	Sq.Ft.
2	Floor Tile - 12 inch - Tan with Black Specks	Misc.	No	No	No	---	None Detected	5159	Sq.Ft.
3	Caulk - Soft - White - on Steel Door Sidelight	Misc.	No	No	No	---	None Detected	35	Sq.Ft.
4	Glazing - Soft - Black - in Steel Door Sidelight	Misc.	No	No	No	---	None Detected	16	Sq.Ft.
5	Fire Rated Door - Solid Wood	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	300	Sq.Ft.
6	Drywall & Joint Compound - On Ceiling	Misc.		No	No	---	None Detected	16226	Sq.Ft.
7	Ceiling Tile - 2x2 - Random Punctures	Misc.	Yes	No	No	---	None Detected	6819	Sq.Ft.
8	Fire Rated Door - Wood with 3x2 Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	160	Sq.Ft.
9	Glazing - Soft - Black - in Fire Door with 3x2 Window	Misc.		No	No	---	None Detected	10	Sq.Ft.
10	Plaster - On Ceiling	Surfacing	No	No	No	---	None Detected	15582	Sq.Ft.
11	Floor Tile & Mastic - 9x9 - White with Black Mastic	Misc.	Category I Non-Friable	No	Yes	F-4% M-6%	Chrysotile	0	Sq.Ft.
12	Flooring Adhesive - Black	Misc.		No	Yes	6%	Chrysotile	0	Sq.Ft.
13	Ceiling Tile - 2x2 - Light Texture - Drywall	Misc.	No	No	No	---	None Detected	37	Sq.Ft.
14	Fire Rated Door - Steel	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	240	Sq.Ft.
15	Caulk - Soft - White - On Steel Door Frame	Misc.		No	No	---	None Detected	43	Sq.Ft.

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Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

Northern Analytical Services

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16	Ceramic Tile & Grout - 6 Inch - Grey	Misc.	No	No	No	---	None Detected	1885	Sq.Ft.
17	Fire Rated Door - Wood with 2 Ft Side Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	20	Sq.Ft.
18	Fire Rated Door - Steel with 1 Ft Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	60	Sq.Ft.
19	Glazing - Soft - Black - in Fire Door with 1 Ft Window	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
20	Ceiling Tile - 2x2 - Random Pin Holes and Punctures	Misc.	Yes	No	No	---	None Detected	876	Sq.Ft.
21	Floor Tile - 12 Inch - White with Grey Flecks	Misc.	No	No	No	---	None Detected	119	Sq.Ft.
22	Caulk - Soft - Grey - On Aluminum Door Transom	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
23	Fire Rated Door - Wood with 3 Ft Side Window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	0	Sq.Ft.
24	Ceiling Tile - 2x2 - Gouges in Circular Pattern	Misc.	Yes	No	No	---	None Detected	4517	Sq.Ft.
25	Caulk - Soft - White - On Wood Door Frame	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
26	Ceiling Tile - 2x2 - Rough Texture	Misc.	Yes	No	No	---	None Detected	100	Sq.Ft.
27	Fire Rated Door - Grey - Wood Grain with 2x3 window	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	40	Sq.Ft.
28	Caulk - Soft - Tan - on Steel Door Transom	Misc.	No	No	No	---	None Detected	43	Sq.Ft.
29	Sink Undercoating - Grey	Surfacing	No	No	No	---	None Detected	134	Sq.Ft.
30	Cove Base - 4 Inch - Teal	Misc.	No	No	No	---	None Detected	877	Sq.Ft.

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31	Glue - Glue Pods Behind Visual Display Boards	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2842	Sq.Ft.
32	Caulk - Soft - Grey - on Aluminum Window Frame	Misc.		No	No	---	None Detected	132	Sq.Ft.
33	Drywall & Joint Compound - On Walls and bulk heads	Misc.		No	No	---	None Detected	9375	Sq.Ft.
34	Caulk - Expansion Joint - Soft - Grey	Misc.	No	No	No	---	None Detected	76	Sq.Ft.
35	Caulk - Hard - White - Around Counters and Cabinet	Misc.	No	No	No	---	None Detected	28	Sq.Ft.
36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	Thermal	Yes	Yes	Yes	---	Assumed	875	Ln.Ft.
37	Plaster - On Walls	Surfacing	No	No	No	---	None Detected	13003	Sq.Ft.
38	Transite Window Blank -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1860	Sq.Ft.
39	Sink Undercoating - White	Surfacing		No	No	---	None Detected	10	Sq.Ft.
40	Cove Base - 4 Inch - Blue	Misc.	No	No	No	---	None Detected	53	Sq.Ft.
41	Tar, Felt & Associated Mastic Layers Under Wood Floor - Gym Wood Floor	Misc.	Category I Non-Friable	No	Yes	---	Assumed	3150	Sq.Ft.
42	Cove Base - 6 Inch - Angled - Black	Misc.		No	No	---	None Detected	115	Sq.Ft.
43	Ceramic Tile & Grout - 1 Inch - Grey	Misc.	Category II Non-Friable	No	Yes	---	Assumed	15	Sq.Ft.
44	Ceramic Block & Grout - 5x6 Inch - Tan	Misc.		No	Yes	---	Assumed	27	Sq.Ft.
45	Caulk - Soft - White - On Steel Window Frame	Misc.	No	No	No	---	None Detected	3	Sq.Ft.

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46	Cove Base - 4 Inch - Grey	Misc.	No	No	No	---	None Detected	45	Sq.Ft.

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001	18	Fire Rated Door - Steel with 1 Ft Window	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
100	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
100	31	Glue - Glue Pods Behind Visual Display Boards	165	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
100	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
101	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
101	31	Glue - Glue Pods Behind Visual Display Boards	165	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
101	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
102	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
102	31	Glue - Glue Pods Behind Visual Display Boards	165	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
102	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
103	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
103	31	Glue - Glue Pods Behind Visual Display Boards	165	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
103	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
104	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
104	31	Glue - Glue Pods Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
104	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

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105	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
105	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
105	31	Glue - Glue Pods Behind Visual Display Boards	120	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
105	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
105	38	Transite Window Blank -	100	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
106	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
106	11	Floor Tile & Mastic - 9x9 - White with Black Mastic	0	Sq.Ft.	Removed summer of 2018	()
106	31	Glue - Glue Pods Behind Visual Display Boards	120	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
106	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
106	38	Transite Window Blank -	80	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
107	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
107	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
107	31	Glue - Glue Pods Behind Visual Display Boards	100	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
107	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
107	38	Transite Window Blank -	80	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
108	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()

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108	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
108	31	Glue - Glue Pods Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
108	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
108	38	Transite Window Blank -	80	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
109	14	Fire Rated Door - Steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
109	38	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
110	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
110	8	Fire Rated Door - Wood with 3x2 Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
110	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
110	31	Glue - Glue Pods Behind Visual Display Boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
110	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
110	38	Transite Window Blank -	20	Sq.Ft.	2 Blanks	maintain with O&M plan. (7)
111	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
112	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
112	8	Fire Rated Door - Wood with 3x2 Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
112	31	Glue - Glue Pods Behind Visual Display Boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)

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112	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
112	38	Transite Window Blank -	120	Sq.Ft.	9 Blanks	maintain with O&M plan. (7)
113	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
113	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
113	38	Transite Window Blank -	100	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
115	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
115	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
115	38	Transite Window Blank -	0	Sq.Ft.	Removed summer of 2018	()
116	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
116	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
117	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
117	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
117	38	Transite Window Blank -	0	Sq.Ft.	Removed summer of 2018	()
118	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
119	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
119	31	Glue - Glue Pods Behind Visual Display Boards	120	Sq.Ft.	2 Boards	maintain with O&M plan. (7)

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119	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
119	38	Transite Window Blank -	100	Sq.Ft.	7 Blanks	maintain with O&M plan. (7)
120	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
120	31	Glue - Glue Pods Behind Visual Display Boards	45	Sq.Ft.	1 Board	maintain with O&M plan. (7)
120	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
120 H	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
121	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
121	38	Transite Window Blank -	20	Sq.Ft.		maintain with O&M plan. (7)
123	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
124	8	Fire Rated Door - Wood with 3x2 Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
124	31	Glue - Glue Pods Behind Visual Display Boards	120	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
124	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
124	38	Transite Window Blank -	100	Sq.Ft.	7 Blanks	maintain with O&M plan. (7)
125	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
125	23	Fire Rated Door - Wood with 3 Ft Side Window	0	Sq.Ft.	Removed summer of 2018	()
125	31	Glue - Glue Pods Behind Visual Display Boards	100	Sq.Ft.	2 Boards	maintain with O&M plan. (7)

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125	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
125	38	Transite Window Blank -	100	Sq.Ft.		maintain with O&M plan. (7)
126	8	Fire Rated Door - Wood with 3x2 Window	20	Sq.Ft.		maintain with O&M plan. (7)
126	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
126	17	Fire Rated Door - Wood with 2 Ft Side Window	0	Sq.Ft.	Removed summer of 2018	()
126	31	Glue - Glue Pods Behind Visual Display Boards	77	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
126	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
126	38	Transite Window Blank -	80	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
127	8	Fire Rated Door - Wood with 3x2 Window	0	Sq.Ft.	Removed summer of 2018	()
127	12	Flooring Adhesive - Black	0	Sq.Ft.	Removed summer of 2018	()
127	31	Glue - Glue Pods Behind Visual Display Boards	100	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
127	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
127	38	Transite Window Blank -	100	Sq.Ft.	6 Blanks	maintain with O&M plan. (7)
128	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
128	38	Transite Window Blank -	160	Sq.Ft.	8 Blanks	maintain with O&M plan. (7)
128 A	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)

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128 B	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 door	maintain with O&M plan. (7)
129	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
129	31	Glue - Glue Pods Behind Visual Display Boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
129	38	Transite Window Blank -	80	Sq.Ft.		maintain with O&M plan. (7)
130	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
130	31	Glue - Glue Pods Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
130	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
130	38	Transite Window Blank -	80	Sq.Ft.	4 Blanks	maintain with O&M plan. (7)
131	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
131	31	Glue - Glue Pods Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
131	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
131	38	Transite Window Blank -	80	Sq.Ft.	4 Blanks	maintain with O&M plan. (7)
132	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
132	18	Fire Rated Door - Steel with 1 Ft Window	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
132	31	Glue - Glue Pods Behind Visual Display Boards	80	Sq.Ft.	1 Board	maintain with O&M plan. (7)
132	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

Northern Analytical Services

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Mt. Pleasant Public Schools
Ganiard Elementary School
4
101 South Adams Street
Mt. Pleasant, MI 48858

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
132	38	Transite Window Blank -	80	Sq.Ft.		maintain with O&M plan. (7)
133	14	Fire Rated Door - Steel	20	Sq.Ft.	1 Door	maintain with O&M plan. (7)
133	17	Fire Rated Door - Wood with 2 Ft Side Window	0	Sq.Ft.	Removed summer of 2018	()
133	31	Glue - Glue Pods Behind Visual Display Boards	160	Sq.Ft.	2 Boards	maintain with O&M plan. (7)
133	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
133	38	Transite Window Blank -	80	Sq.Ft.		maintain with O&M plan. (7)
134	17	Fire Rated Door - Wood with 2 Ft Side Window	20	Sq.Ft.		remove or repair damage ASAP. (4)
135	14	Fire Rated Door - Steel	20	Sq.Ft.		maintain with O&M plan. (7)
135	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
136	5	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
137	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
138	14	Fire Rated Door - Steel	20	Sq.Ft.		maintain with O&M plan. (7)
Attic	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	400	Ln.Ft.	In attic below blown in insulation	maintain with O&M plan. (7)
Attic Access	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
Cafe	5	Fire Rated Door - Solid Wood	60	Sq.Ft.	3 Doors	maintain with O&M plan. (7)
Cafe	14	Fire Rated Door - Steel	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)

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Cafe	27	Fire Rated Door - Grey - Wood Grain with 2x3 window	0	Sq.Ft.	Removed summer of 2018	()
Cafe	38	Transite Window Blank -	200	Sq.Ft.	14 Blanks	maintain with O&M plan. (7)
Gym	5	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
Gym	8	Fire Rated Door - Wood with 3x2 Window	80	Sq.Ft.	4 Doors	maintain with O&M plan. (7)
Gym	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
Gym	41	Tar, Felt & Associated Mastic Layers Under Wood Floor - Gym Wood Floor	3150	Sq.Ft.		maintain with O&M plan. (7)
Gym	43	Ceramic Tile & Grout - 1 Inch - Grey	15	Sq.Ft.		maintain with O&M plan. (7)
Gym	44	Ceramic Block & Grout - 5x6 Inch - Tan	14	Sq.Ft.		maintain with O&M plan. (7)
H1	27	Fire Rated Door - Grey - Wood Grain with 2x3 window	40	Sq.Ft.	2 Doors	maintain with O&M plan. (7)
H1	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	5	Ln.Ft.		maintain with O&M plan. (7)
H2	31	Glue - Glue Pods Behind Visual Display Boards	60	Sq.Ft.		maintain with O&M plan. (7)
H3	11	Floor Tile & Mastic - 9x9 - White with Black Mastic	0	Sq.Ft.	Removed summer of 2018	()
H3	14	Fire Rated Door - Steel	80	Sq.Ft.	4 Doors	maintain with O&M plan. (7)
H3	31	Glue - Glue Pods Behind Visual Display Boards	100	Sq.Ft.		maintain with O&M plan. (7)
H3	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)
H3	44	Ceramic Block & Grout - 5x6 Inch - Tan	13	Sq.Ft.		maintain with O&M plan. (7)

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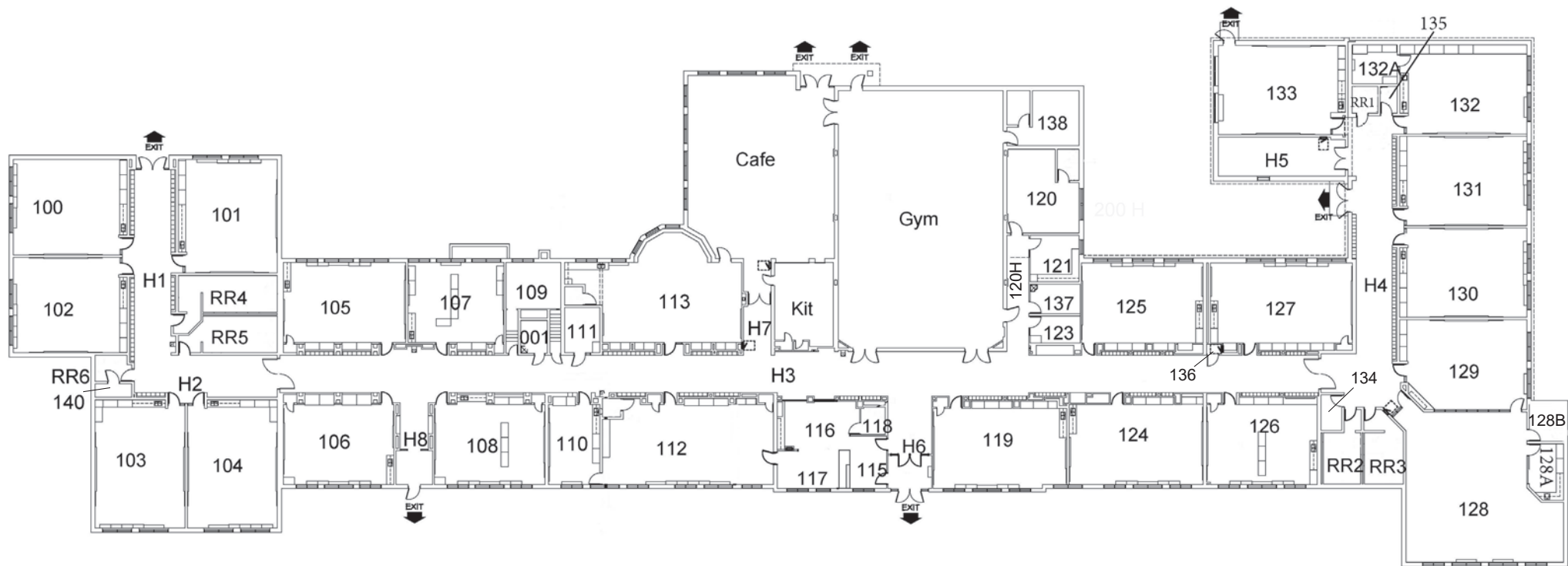
<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
H5	14	Fire Rated Door - Steel	40	Sq.Ft.		maintain with O&M plan. (7)
H6	27	Fire Rated Door - Grey - Wood Grain with 2x3 window	0	Sq.Ft.	Removed summer of 2018	()
H6	31	Glue - Glue Pods Behind Visual Display Boards	0	Sq.Ft.	Removed summer of 2018	()
H8	27	Fire Rated Door - Grey - Wood Grain with 2x3 window	0	Sq.Ft.	Removed summer of 2018	()
Kit	5	Fire Rated Door - Solid Wood	20	Sq.Ft.		maintain with O&M plan. (7)
Kit	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
RR1	5	Fire Rated Door - Solid Wood	20	Sq.Ft.	1 door	maintain with O&M plan. (7)
RR1	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	20	Ln.Ft.		maintain with O&M plan. (7)
RR2	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
RR2	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	30	Ln.Ft.		maintain with O&M plan. (7)
RR3	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
RR3	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	30	Ln.Ft.		maintain with O&M plan. (7)
RR4	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RR5	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()
RR5	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	40	Ln.Ft.		maintain with O&M plan. (7)
RR6	5	Fire Rated Door - Solid Wood	0	Sq.Ft.	Removed summer of 2018	()

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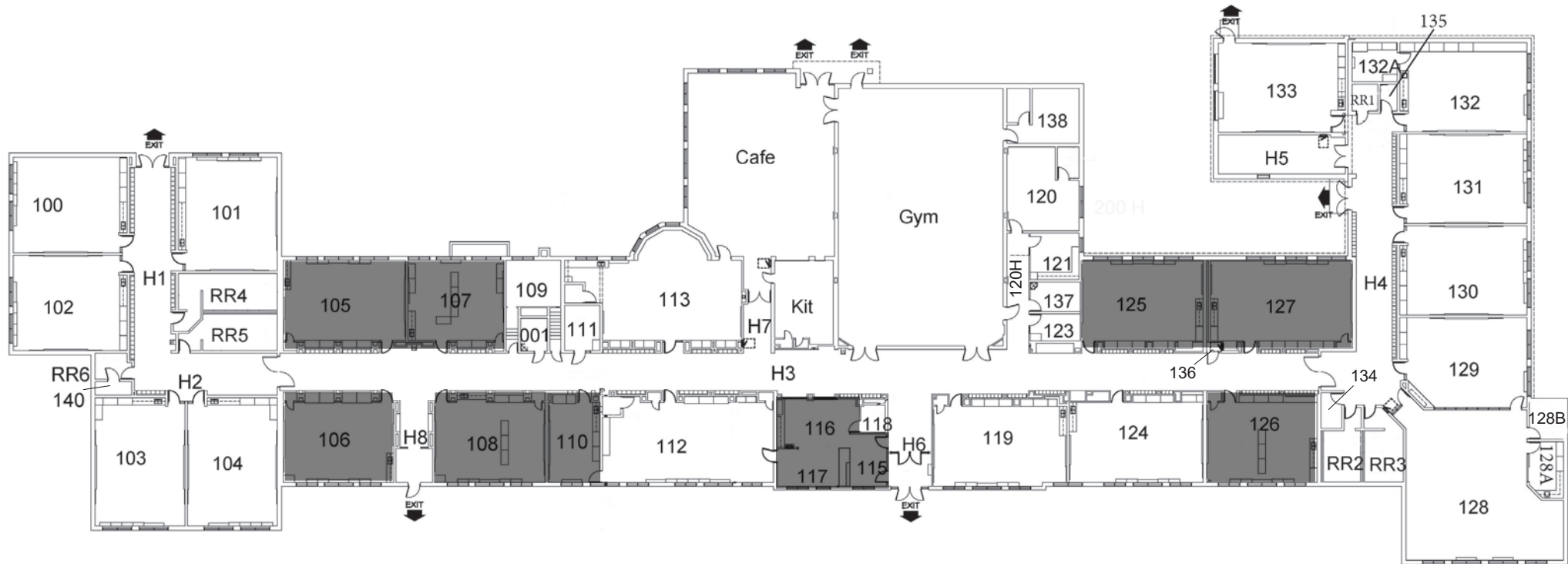
<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
RR6	36	Pipe Insulation-Mudded Pipe Fitting - Assumed in Walls and Ceiling	10	Ln.Ft.		maintain with O&M plan. (7)

Floor Plan



Ganiard Elementary School

■ = Asbestos Flooring Previously Abated



Ganiard Elementary School

Photos



Damage to fire rated door

Ganiard Elementary - Room 134

Mary McGuire Elementary School

Material Report

Northern Analytical Services

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McGuire Elementary School

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Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	2	Each
2	Floor Tile & Mastic -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	0	Sq.Ft.
3	Floor Tile & Mastic - Assumed Under Casework	Misc.	Category I Non-Friable	No	Yes	---	Assumed	2880	Sq.Ft.
4	Ceiling Tile - 2ft x 4ft Light Texture With Pinholes	Misc.	Yes	No	No	---	None Detected	6115	Sq.Ft.
5	Floor Tile & Mastic - 18in x 18in Grey Marble Appearance, Tan Mastic	Misc.	No	No	No	---	None Detected	1380	Sq.Ft.
6	Vinyl Sheet Flooring - Tan with Cream Streaks	Misc.	No	No	No	---	None Detected	303	Sq.Ft.
7	Sink Undercoating - White	Surfacing	No	No	No	---	None Detected	17	Sq.Ft.
8	Ceiling Tile - 2ft x 2ft White with Pinholes	Misc.	Yes	No	No	---	None Detected	24300	Sq.Ft.
9	Floor Tile & Mastic - 12in x 12in White with Grey Flecks, Tan Mastic	Misc.	No	No	No	---	None Detected	535	Sq.Ft.
10	Plaster - Smooth	Surfacing	Yes	No	No	---	None Detected	765	Sq.Ft.
11	Floor Tile & Mastic - 12in x 12in Grey with Navy, White and Blue Flecks, Tan Mastic	Misc.	No	No	No	---	None Detected	195	Sq.Ft.
12	Ceiling Tile - 2ft x 4ft White with Random Gouges and Pinholes	Misc.	Yes	No	No	---	None Detected	1660	Sq.Ft.
13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	Thermal	Yes	Yes	Yes	10%	Chrysotile	35	Ln.Ft.
14	Floor Tile & Mastic - 12in x 12in Teal with White Streaks, Tan Mastic	Misc.	No	No	No	---	None Detected	790	Sq.Ft.
15	Caulk - On Ductwork	Misc.	No	No	No	---	None Detected	1	Sq.Ft.

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

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Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
16	Floor Tile & Mastic - 9in x 9in Tan with Brown Streaks, Black Mastic	Misc.	Category I Non-Friable	No	Yes	T-2% M-5%	Chrysotile	55	Sq.Ft.

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

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Response Action Report

Northern Analytical Services

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Response Action Report

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<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
091	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
091	3	Floor Tile & Mastic - Assumed Under Casework	70	Sq.Ft.	Middle of Room	maintain with O&M plan. (7)
091A	3	Floor Tile & Mastic - Assumed Under Casework	50	Sq.Ft.	North Wall	maintain with O&M plan. (7)
091A	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	South Wall	maintain with O&M plan. (7)
091A	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)
091B	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
092	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
094	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
094	3	Floor Tile & Mastic - Assumed Under Casework	25	Sq.Ft.	East Wall	maintain with O&M plan. (7)
094	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
094	3	Floor Tile & Mastic - Assumed Under Casework	70	Sq.Ft.	West Wall	maintain with O&M plan. (7)
095	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
095	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
095	3	Floor Tile & Mastic - Assumed Under Casework	25	Sq.Ft.	West Wall	maintain with O&M plan. (7)
098	2	Floor Tile & Mastic -	0	Sq.Ft.	In Closet, Abated July 2020	()
098	3	Floor Tile & Mastic - Assumed Under Casework	75	Sq.Ft.	South Wall	maintain with O&M plan. (7)

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098	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
098	3	Floor Tile & Mastic - Assumed Under Casework	50	Sq.Ft.	Middle of Room	maintain with O&M plan. (7)
098	13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	10	Ln.Ft.		maintain with O&M plan. (7)
099	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)
099	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
099	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	East Wall	maintain with O&M plan. (7)
099	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
100	3	Floor Tile & Mastic - Assumed Under Casework	70	Sq.Ft.	East Wall Under Casework and Heater	maintain with O&M plan. (7)
100	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	West Wall	maintain with O&M plan. (7)
100	3	Floor Tile & Mastic - Assumed Under Casework	40	Sq.Ft.	South Wall	maintain with O&M plan. (7)
100	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
101	3	Floor Tile & Mastic - Assumed Under Casework	40	Sq.Ft.	South Wall	maintain with O&M plan. (7)
101	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
101	3	Floor Tile & Mastic - Assumed Under Casework	70	Sq.Ft.	East Wall Under Casework and Heater	maintain with O&M plan. (7)
101	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	West Wall	maintain with O&M plan. (7)
102	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)

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102	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
102	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
102	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	Southeast Wall	maintain with O&M plan. (7)
103	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
103	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
103	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
103	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	Southeast Wall	maintain with O&M plan. (7)
104	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	South Wall	maintain with O&M plan. (7)
104	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
104	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	West Wall	maintain with O&M plan. (7)
104	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
105	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
105	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
105	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
105	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	Southeast Wall	maintain with O&M plan. (7)
106	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)

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106	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	West Wall	maintain with O&M plan. (7)
106	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
106	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	South Wall	maintain with O&M plan. (7)
107	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
107	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
107	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
107	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	Southeast Wall	maintain with O&M plan. (7)
108	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	South Wall	maintain with O&M plan. (7)
108	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
108	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	West Wall	maintain with O&M plan. (7)
108	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
109	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall Under Casework and Heater	maintain with O&M plan. (7)
109	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	Southeast Wall	maintain with O&M plan. (7)
109	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall	maintain with O&M plan. (7)
109	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	East Wall	maintain with O&M plan. (7)
110	3	Floor Tile & Mastic - Assumed Under Casework	85	Sq.Ft.	North Wall Casework and Heater	maintain with O&M plan. (7)

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4883 East Crosslanes Street
Mt. Pleasant, MI 48858

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
110	3	Floor Tile & Mastic - Assumed Under Casework	50	Sq.Ft.	South Wall	maintain with O&M plan. (7)
111	3	Floor Tile & Mastic - Assumed Under Casework	85	Sq.Ft.	North Wall Casework and Heater	maintain with O&M plan. (7)
111	3	Floor Tile & Mastic - Assumed Under Casework	50	Sq.Ft.	South Wall	maintain with O&M plan. (7)
112	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	North Wall Under Heater	maintain with O&M plan. (7)
112	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	South Wall	maintain with O&M plan. (7)
113	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	South Wall Under Heater	maintain with O&M plan. (7)
113	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	North Wall	maintain with O&M plan. (7)
114A	13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	5	Ln.Ft.		maintain with O&M plan. (7)
114B	13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	5	Ln.Ft.		maintain with O&M plan. (7)
115	3	Floor Tile & Mastic - Assumed Under Casework	50	Sq.Ft.	Middle of Room	maintain with O&M plan. (7)
115	3	Floor Tile & Mastic - Assumed Under Casework	15	Sq.Ft.	West Wall	maintain with O&M plan. (7)
115	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	East Wall	maintain with O&M plan. (7)
115	3	Floor Tile & Mastic - Assumed Under Casework	45	Sq.Ft.	South Wall	maintain with O&M plan. (7)
115	3	Floor Tile & Mastic - Assumed Under Casework	40	Sq.Ft.	North Wall	maintain with O&M plan. (7)
115A	2	Floor Tile & Mastic -	0	Sq.Ft.	Abated July 2020	()
115A	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	West Wall	maintain with O&M plan. (7)

Northern Analytical Services

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Mt. Pleasant Public Schools
McGuire Elementary School
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4883 East Crosslanes Street
Mt. Pleasant, MI 48858

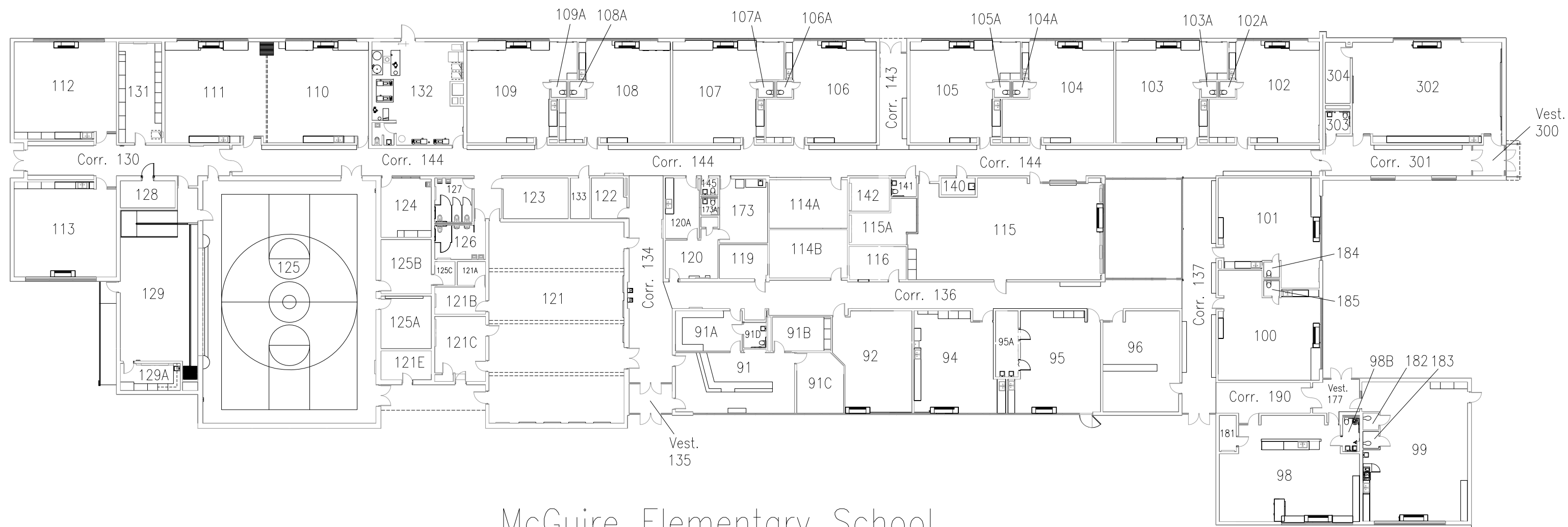
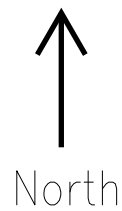
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115A	3	Floor Tile & Mastic - Assumed Under Casework	30	Sq.Ft.	North Wall	maintain with O&M plan. (7)
120A	3	Floor Tile & Mastic - Assumed Under Casework	25	Sq.Ft.	West Wall	maintain with O&M plan. (7)
124	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
124	3	Floor Tile & Mastic - Assumed Under Casework	60	Sq.Ft.	South Wall	maintain with O&M plan. (7)
125C	13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	10	Ln.Ft.		maintain with O&M plan. (7)
127	13	Pipe Insulation-Mudded Fitting - On Fiberglass Line	5	Ln.Ft.		maintain with O&M plan. (7)
129A	3	Floor Tile & Mastic - Assumed Under Casework	35	Sq.Ft.	West Wall	maintain with O&M plan. (7)
129A	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	South Wall	maintain with O&M plan. (7)
132	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
140	16	Floor Tile & Mastic - 9in x 9in Tan with Brown Streaks, Black Mastic	55	Sq.Ft.		maintain with O&M plan. (7)
173	3	Floor Tile & Mastic - Assumed Under Casework	15	Sq.Ft.	North Wall	maintain with O&M plan. (7)
181	3	Floor Tile & Mastic - Assumed Under Casework	20	Sq.Ft.	West Wall	maintain with O&M plan. (7)
302	3	Floor Tile & Mastic - Assumed Under Casework	10	Sq.Ft.	North Wall	maintain with O&M plan. (7)
302	3	Floor Tile & Mastic - Assumed Under Casework	75	Sq.Ft.	South Wall	maintain with O&M plan. (7)

Floor Plan



McGuire Elementary School

Francher Elementary School

Material Report

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Customer:

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Mt. Pleasant Public Schools

Fancher Elementary School

801 South Kinney Avenue

Mt. Pleasant, MI 48858

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Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Flooring Layer Assumed Under Surface Layer -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	12090	Sq.Ft.
2	Flooring - Assumed Under Cabinet/Heater	Misc.	Category I Non-Friable	No	Yes	---	Assumed	1030	Sq.Ft.
3	Cove Base - 4 inch, Dark Gray w/ Glue Backing	Misc.	No	No	No	---	None Detected	250	Sq.Ft.
4	Pipe Insulation - On Fiberglass Line	Thermal	Yes	No	No	---	None Detected	41	Ln.Ft.
5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	Thermal	Yes	Yes	Yes	---	Assumed	130	Ln.Ft.
6	Plaster -	Surfacing	No	No	No	---	None Detected	14690	Sq.Ft.
7	Ceiling Tile - 2x2, White w/ Pinholes	Misc.	Yes	No	No	---	None Detected	37540	Sq.Ft.
8	Drywall & Joint Compound -	Misc.	No	No	No	---	None Detected	3000	Sq.Ft.
9	- Intentionally Left Blank								
10	Floor Tile & Mastic - 12 inch, Gray w/ Stone Look	Misc.	No	No	No	---	None Detected	1910	Sq.Ft.
11	Caulk - Ductwork, Olive	Misc.	No	No	No	---	None Detected	22	Sq.Ft.
12	Floor Tile & Mastic - 12 inch, White w/ Black Dots	Misc.	No	No	No	---	None Detected	35	Sq.Ft.
13	Glue - Assumed Behind Mirror	Misc.	Category II Non-Friable	No	Yes	---	Assumed	2	Sq.Ft.
14	Fire Rated Door - Wood, Solid	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	6	Each
15	Fire Rated Door - Steel, Solid	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	1	Each

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

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16	Ceramic Block - Pyro, White, Block	Misc.	No	No	No	---	None Detected	400	Sq.Ft.
17	Flooring-Carpet Glue - Tan	Misc.	No	No	No	---	None Detected	8220	Sq.Ft.
18	Miscellaneous - Pipe Covering, Hard	Misc.	No	No	No	---	None Detected	2	Sq.Ft.
19	Flooring - Terrazzo	Misc.	No	No	No	---	None Detected	2050	Sq.Ft.
20	Pipe Insulation-Mudded Fitting - Roof Drain	Thermal	Yes	Yes	Yes	---	Assumed	2	Ln.Ft.
21	Pipe Insulation - On Roof Drain Line	Thermal	Yes	Yes	Yes	25%	Chrysotile	6	Ln.Ft.
22	Caulk - On Exterior Black Aluminum Door Frame, Dark Gray, Pliable	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
23	Fire Rated Door - Wood w/ 6inx24in	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	3	Each
24	Miscellaneous - Brick and Mortar, Stone Look	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
25	Caulk - Exterior Expansion Joint, Gray, Pliable	Misc.	No	No	No	---	None Detected	1	Sq.Ft.
26	Ceramic Tile & Grout - 8inx8in, White	Misc.	No	No	No	---	None Detected	365	Sq.Ft.
27	Ceiling Tile - 2x2, White, Drywall	Misc.	No	No	No	---	None Detected	365	Sq.Ft.
28	Miscellaneous - Tar, Old Roof Line	Misc.	Category II Non-Friable	No	Yes	12%	Chrysotile	10	Sq.Ft.
29	Sink Undercoating - No Access	Surfacing	Category II Non-Friable	No	Yes	---	Assumed	0	Sq.Ft.
30	Caulk - On Exterior Black Aluminum Window Frame, Black, Pliable	Misc.	No	No	No	---	None Detected	8	Sq.Ft.

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RACM = regulated asbestos containing material

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<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
31	Gypsum Board - Ceiling	Misc.	No	No	No	---	None Detected	Not Quantified	Sq.Ft.

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Response Action Report

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101	1	Flooring Layer Assumed Under Surface Layer -	730	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
101	2	Flooring - Assumed Under Cabinet/Heater	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
101	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	West Wall at Cabinet and Heater	maintain with O&M plan. (7)
101	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
101	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
103	1	Flooring Layer Assumed Under Surface Layer -	730	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
103	2	Flooring - Assumed Under Cabinet/Heater	32	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
103	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Cabinet and Heater	maintain with O&M plan. (7)
103	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
103	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)
106	1	Flooring Layer Assumed Under Surface Layer -	730	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
106	2	Flooring - Assumed Under Cabinet/Heater	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
106	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	West Wall at Cabinet and Heater	maintain with O&M plan. (7)
106	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
106	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
112	14	Fire Rated Door - Wood, Solid	2	Each	North Wall	maintain with O&M plan. (7)

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112	20	Pipe Insulation-Mudded Fitting - Roof Drain	2	Ln.Ft.	Drain Above Pan Ceiling, Fitting Above Drop Ceiling	maintain with O&M plan. (7)
112	21	Pipe Insulation - On Roof Drain Line	6	Ln.Ft.	Located 18ft West of NE Corner Above Ceiling Tile	maintain with O&M plan. (7)
112	23	Fire Rated Door - Wood w/ 6inx24in	2	Each	East Wall	maintain with O&M plan. (7)
114	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
114	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
114	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
114	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
117	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
117	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
117	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
117	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
118	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
118	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
118	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
118	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
119	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)

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119	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
119	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
119	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
202	1	Flooring Layer Assumed Under Surface Layer -	240	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
202	2	Flooring - Assumed Under Cabinet/Heater	10	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
203	1	Flooring Layer Assumed Under Surface Layer -	315	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
203	2	Flooring - Assumed Under Cabinet/Heater	10	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
203	2	Flooring - Assumed Under Cabinet/Heater	10	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
203	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
204	1	Flooring Layer Assumed Under Surface Layer -	730	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
204	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	West Wall at Cabinet and Heater	maintain with O&M plan. (7)
204	2	Flooring - Assumed Under Cabinet/Heater	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
204	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
204	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
205	1	Flooring Layer Assumed Under Surface Layer -	270	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
205	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)

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205	2	Flooring - Assumed Under Cabinet/Heater	16	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
205	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
206	1	Flooring Layer Assumed Under Surface Layer -	730	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
206	2	Flooring - Assumed Under Cabinet/Heater	32	Sq.Ft.	East Wall at Cabinet	maintain with O&M plan. (7)
206	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	West Wall at Cabinet and Heater	maintain with O&M plan. (7)
206	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Heater	maintain with O&M plan. (7)
206	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
208	1	Flooring Layer Assumed Under Surface Layer -	690	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
208	2	Flooring - Assumed Under Cabinet/Heater	66	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
208	2	Flooring - Assumed Under Cabinet/Heater	34	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
208	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)
208	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
209	1	Flooring Layer Assumed Under Surface Layer -	690	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
209	2	Flooring - Assumed Under Cabinet/Heater	66	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
209	2	Flooring - Assumed Under Cabinet/Heater	34	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
209	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	West Wall at Sink	maintain with O&M plan. (7)

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209	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
215	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
215	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
215	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
215	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
216	1	Flooring Layer Assumed Under Surface Layer -	925	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
216	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	East Wall at Heater and Cabinet	maintain with O&M plan. (7)
216	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	West Wall at Cabinet	maintain with O&M plan. (7)
216	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Heater	maintain with O&M plan. (7)
217	1	Flooring Layer Assumed Under Surface Layer -	650	Sq.Ft.	No Flooring Found	maintain with O&M plan. (7)
217	2	Flooring - Assumed Under Cabinet/Heater	36	Sq.Ft.	South Wall at Heater and Cabinet	maintain with O&M plan. (7)
217	2	Flooring - Assumed Under Cabinet/Heater	24	Sq.Ft.	North Wall at Cabinet	maintain with O&M plan. (7)
217	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	South Wall at Heater	maintain with O&M plan. (7)
Kitchen	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	5	Ln.Ft.	East Wall at Sink	maintain with O&M plan. (7)
Kitchen	5	Pipe Insulation-Assumed in Walls/Ceiling Cavities -	10	Ln.Ft.	West Wall	maintain with O&M plan. (7)
Kitchen	14	Fire Rated Door - Wood, Solid	1	Each	South Wall	maintain with O&M plan. (7)

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Fancher Elementary School
7
801 South Kinney Avenue
Mt. Pleasant, MI 48858

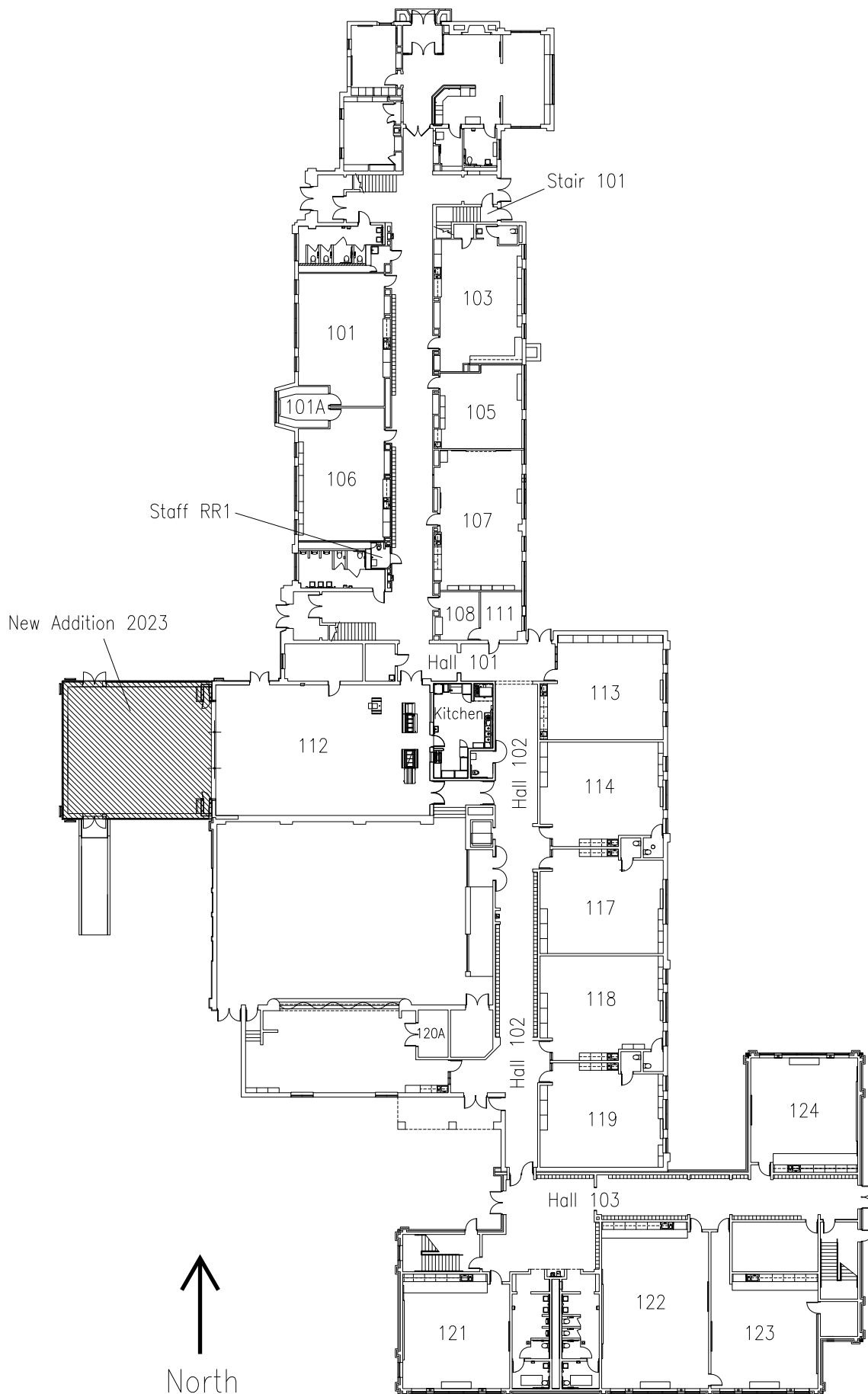
Response Action Report

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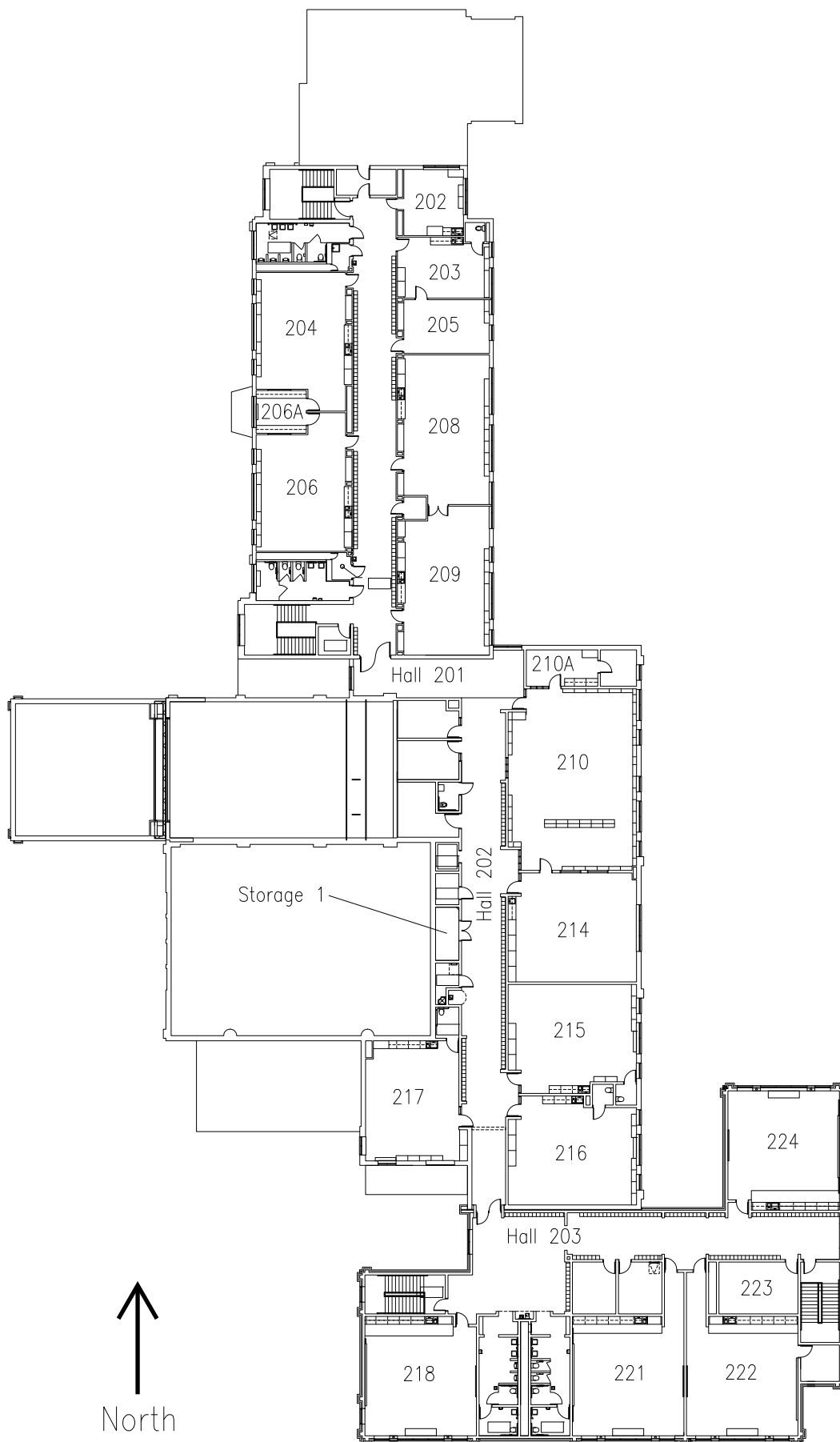
February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
Kitchen	23	Fire Rated Door - Wood w/ 6inx24in	1	Each	Damaged, To Room 112	remove or repair damage ASAP. (3)
Kitchen	28	Miscellaneous - Tar, Old Roof Line	10	Sq.Ft.	West Wall Above Ceiling Tile	maintain with O&M plan. (7)
Kitchen	29	Sink Undercoating - No Access	0	Sq.Ft.	None Found	()
Staff RR1	1	Flooring Layer Assumed Under Surface Layer -	35	Sq.Ft.	Under Floor Tile	maintain with O&M plan. (7)
Staff RR1	13	Glue - Assumed Behind Mirror	2	Sq.Ft.	West Wall	maintain with O&M plan. (7)
Staff RR1	14	Fire Rated Door - Wood, Solid	1	Each		maintain with O&M plan. (7)
Staff RR1 Chase	15	Fire Rated Door - Steel, Solid	1	Each		maintain with O&M plan. (7)
Storage 1	14	Fire Rated Door - Wood, Solid	2	Each		maintain with O&M plan. (7)

Floor Plan




 Fancher Elementary School – 1st Floor



○ Fancher Elementary School – 2nd Floor

Photos

A close-up photograph of a wooden fire-rated door. The door has a vertical wood grain and shows significant damage along a horizontal crack, where the wood has split and the inner core is exposed. To the right of the door is a blue metal frame with a grid-like pattern. The text "Damage to fire rated door" is overlaid on the image.

Damage to fire rated door

Kitchen



Crack in door

Rosebush Elementary School

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Rosebush Elementary School

3771 North Mission Road

Rosebush, MI 48878

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	4	Each
2	Floor Tile & Mastic -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	6840	Sq.Ft.

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Rosebush Elementary School
8
3771 North Mission Road
Rosebush, MI 48878

Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
103	2	Floor Tile & Mastic -	600	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
105	2	Floor Tile & Mastic -	600	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
108	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
112	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
115	2	Floor Tile & Mastic -	200	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
116	2	Floor Tile & Mastic -	600	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
117	2	Floor Tile & Mastic -	800	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
118	2	Floor Tile & Mastic -	600	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
120	2	Floor Tile & Mastic -	600	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
121	2	Floor Tile & Mastic -	700	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
122	2	Floor Tile & Mastic -	700	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
123	2	Floor Tile & Mastic -	700	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
125	2	Floor Tile & Mastic -	700	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
130	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
Copy Room	2	Floor Tile & Mastic -	40	Sq.Ft.	Assumed under carpet	maintain with O&M plan. (7)
Learning Center	1	Fire Rated Door -	1	Each		maintain with O&M plan. (7)

Northern Analytical Services

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LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Rosebush Elementary School
8
3771 North Mission Road
Rosebush, MI 48878

Response Action Report

Printed: February 21, 2024

<i>Material</i>						<i>Response Action</i>
<i>Room Number</i>	<i>Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>(AHERA Ranking)</i>

Floor Plan

■ = Asbestos Floor Covering Assumed Under Carpet

■ = newer additions



rosebush elementary

Maintenance & Transportation

Material Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

Customer:

Building:

Address:

Mt. Pleasant Public Schools

Maintenance & Transportation

405 South Bradley Street

Mt. Pleasant, MI 48858

Printed:

February 21, 2024

Material Report

<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Category</i>	<i>Friability*</i>	<i>RACM**</i>	<i>Asbestos Detected</i>	<i>Percent Asbestos</i>	<i>Asbestos Type</i>	<i>Quantity</i>	<i>Units</i>
1	Floor Tile & Mastic - 12"	Misc.	Category I Non-Friable	No	Yes	---	Assumed	2310	Sq.Ft.
2	Fire Rated Door -	Misc.	Category II Non-Friable	Yes	Yes	---	Assumed	7	Each

* Non-Friable materials may become friable when damaged.

** May become regulated asbestos containing material (RACM) when damaged.

Misc. = miscellaneous material

Surfacing = surfacing material

Thermal = thermal system insulation

RACM = regulated asbestos containing material

Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Maintenance & Transportation
9
405 South Bradley Street
Mt. Pleasant, MI 48858

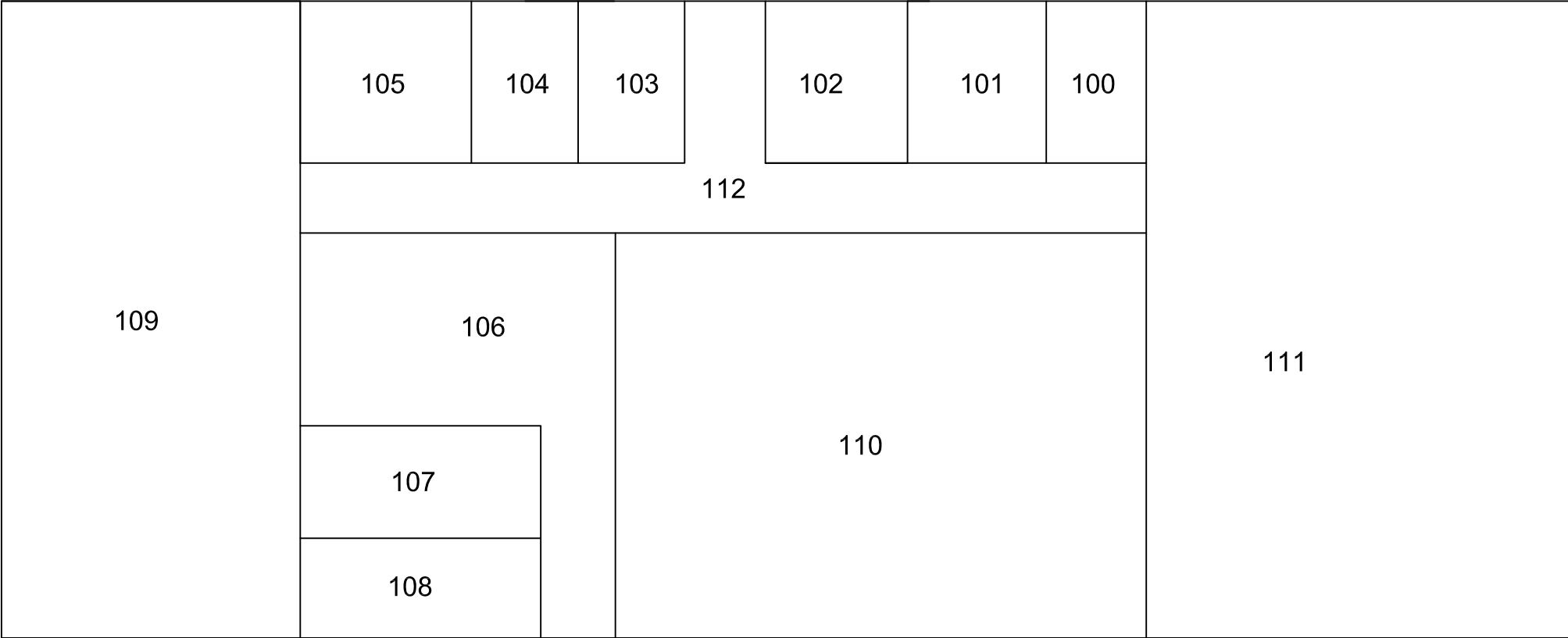
Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
100	1	Floor Tile & Mastic - 12"	100	Sq.Ft.		maintain with O&M plan. (7)
101	1	Floor Tile & Mastic - 12"	180	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
102	1	Floor Tile & Mastic - 12"	200	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
103	1	Floor Tile & Mastic - 12"	160	Sq.Ft.		maintain with O&M plan. (7)
104	1	Floor Tile & Mastic - 12"	220	Sq.Ft.		maintain with O&M plan. (7)
105	1	Floor Tile & Mastic - 12"	220	Sq.Ft.		maintain with O&M plan. (7)
106	1	Floor Tile & Mastic - 12"	770	Sq.Ft.		maintain with O&M plan. (7)
107	1	Floor Tile & Mastic - 12"	100	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
108	2	Fire Rated Door -	2	Each		maintain with O&M plan. (7)
109	2	Fire Rated Door -	1	Each		maintain with O&M plan. (7)
110	2	Fire Rated Door -	2	Each		maintain with O&M plan. (7)
111	2	Fire Rated Door -	2	Each		maintain with O&M plan. (7)
112	1	Floor Tile & Mastic - 12"	360	Sq.Ft.		maintain with O&M plan. (7)

Floor Plan



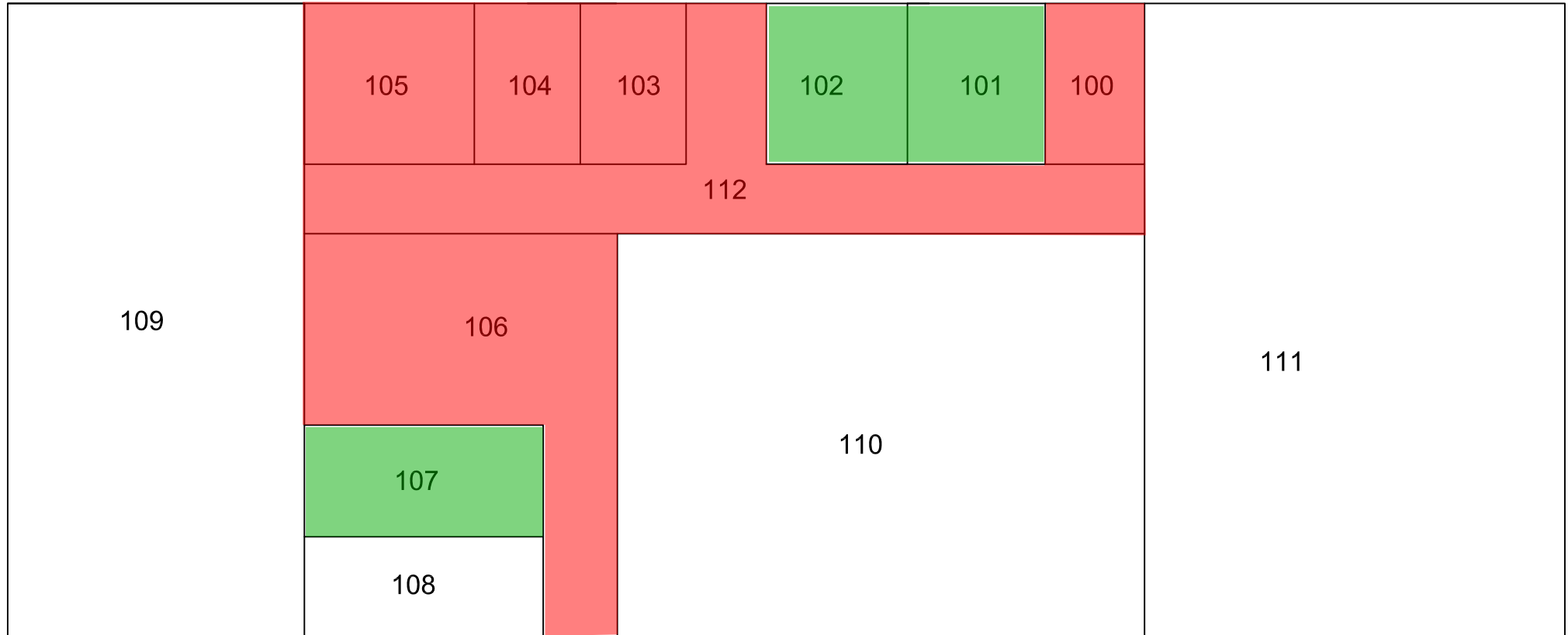
Maintenance & Transportation Garage



= Assumed Asbestos Floor Covering



= Assumed Asbestos Floor Covering Under Carpet



Maintenance & Transportation Garage

Oasis Alternative Education

Material Report

Material Report

Material Number	Homogeneous Material Description	Category	Friability*	RACM**	Asbestos Detected	Percent Asbestos	Asbestos Type	Quantity	Units
1	Floor Tile & Mastic -	Misc.	Category I Non-Friable	No	Yes	---	Assumed	5870	Sq.Ft.

Response Action Report

Northern Analytical Services

14870 225th Avenue, Big Rapids, MI 49307 - (231) 268-0004 - Fax (866) 214-4739

LEA:
Building:
Building No.:
Address:

Mt. Pleasant Public Schools
Oasis Alternative Education
10
3480 South Isabella Road
Mt. Pleasant, MI 48858

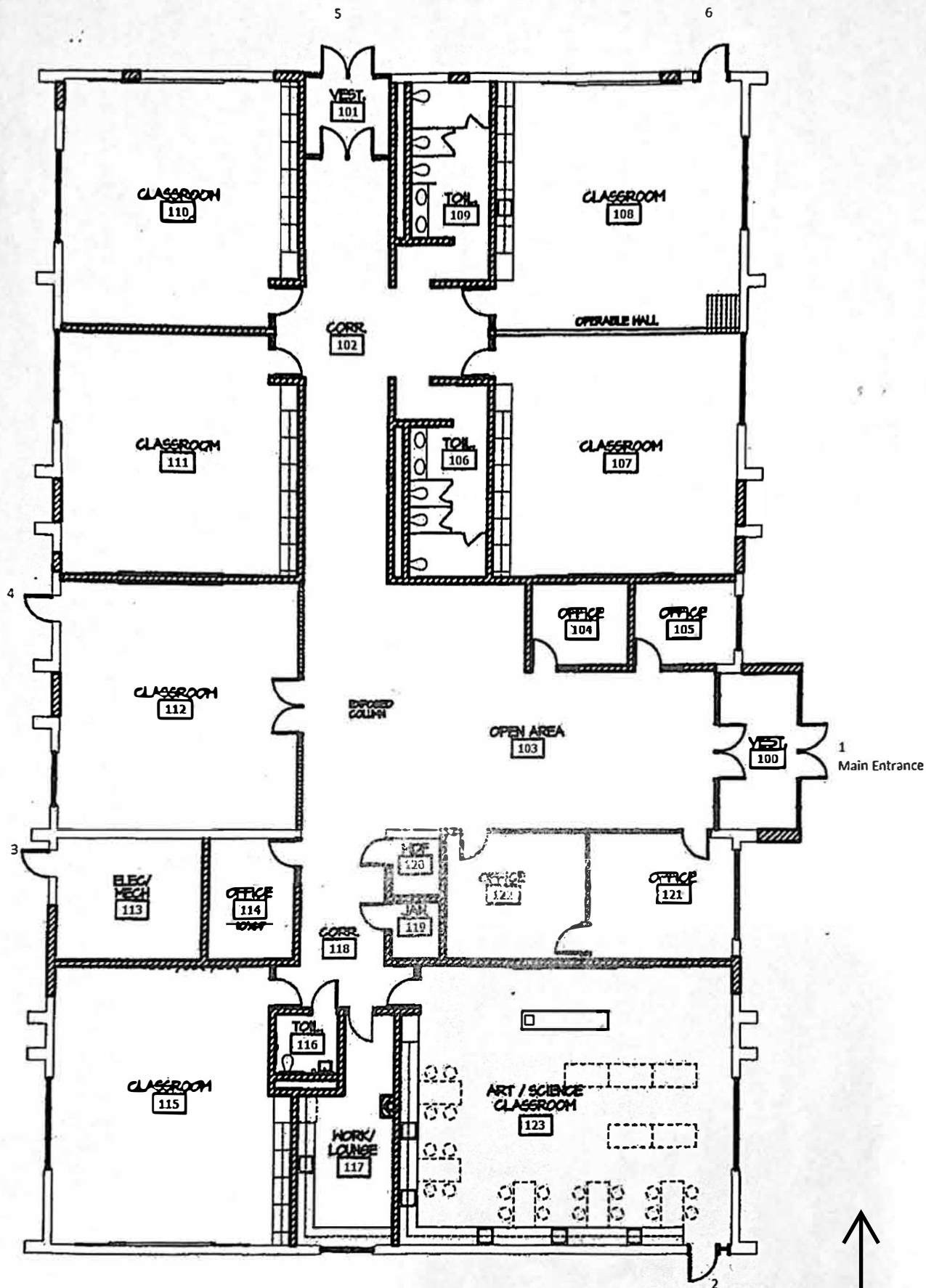
Response Action Report

Printed:

February 21, 2024

<i>Room Number</i>	<i>Material Number</i>	<i>Homogeneous Material Description</i>	<i>Quantity</i>	<i>Units</i>	<i>Comments</i>	<i>Response Action (AHERA Ranking)</i>
100	1	Floor Tile & Mastic -		Sq.Ft.		maintain with O&M plan. (7)
102	1	Floor Tile & Mastic -		Sq.Ft.		maintain with O&M plan. (7)
104	1	Floor Tile & Mastic -	80	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
105	1	Floor Tile & Mastic -	80	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
107	1	Floor Tile & Mastic -	630	Sq.Ft.		maintain with O&M plan. (7)
108	1	Floor Tile & Mastic -	630	Sq.Ft.		maintain with O&M plan. (7)
110	1	Floor Tile & Mastic -	630	Sq.Ft.		maintain with O&M plan. (7)
111	1	Floor Tile & Mastic -	630	Sq.Ft.		maintain with O&M plan. (7)
112	1	Floor Tile & Mastic -	740	Sq.Ft.		maintain with O&M plan. (7)
114	1	Floor Tile & Mastic -	140	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
115	1	Floor Tile & Mastic -	680	Sq.Ft.		maintain with O&M plan. (7)
117	1	Floor Tile & Mastic -	280	Sq.Ft.		maintain with O&M plan. (7)
121	1	Floor Tile & Mastic -	225	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
122	1	Floor Tile & Mastic -	225	Sq.Ft.	Assumed Under Carpet	maintain with O&M plan. (7)
123	1	Floor Tile & Mastic -	900	Sq.Ft.		maintain with O&M plan. (7)

Floor Plan



Oasis Alternative Education

North



= Assumed Asbestos Floor Covering



= Assumed Asbestos Flooring Under Carpet

6



Oasis Alternative Education

North

PART 1 – GENERAL

1.01 CODES

- A. All work shall comply with the applicable requirements of the local building code and accident and fire prevention regulations.

1.02 SCOPE

- A. The Work covered by this section of Specifications includes, but is not limited to, the following:
1. Demolish and remove existing materials as shown on the plan and noted in the Description of Work.
 2. Cover holes and other hazardous openings with approved materials and barriers.
 3. Remove all demolition materials and debris from the construction site and dispose of in a legal manner.
 4. Protect adequately the construction site, adjoining property, and utility services as work proceeds through all stages.

1.03 QUALITY ASSURANCE

- A. Contractor's staff responsible for demolition shall be experienced in this type of work. Equipment is to be of suitable type, in good working condition, and operated by skilled mechanics.

PART 2 – PRODUCTS

2.01 TEMPORARY ENCLOSURES

- A. Provide temporary enclosures to prevent dust from entering other parts of the facility during demolition. Furnish, install and remove when directed, temporary weathertight enclosures in all exterior openings created during demolition by the contractor.

PART 3 – EXECUTION

3.01 GENERAL INSTRUCTIONS

- A. All work shall be done in a safe and cautious manner in order to avoid accidents and property damage.
- B. Protect the work scheduled to remain, and if damaged, repair to match existing work.
- C. All salvaged material unless otherwise noted on plans or in the Description of Work shall become the property of the Contractor and shall be evaluated in the Contractor's bid price. Promptly remove salvaged material from the construction site as the work proceeds.
- D. Carefully dismantle and store on site all material scheduled to remain the Property of the Owner. Protect until removed by the Owner or until end of Contract.
- E. Protect from damage and clean materials scheduled to be reused.
- F. Protect parts of the existing Work scheduled to remain. Cut away carefully the parts to be demolished to reduce the amount of necessary repairs.
- G. Support existing structure as needed during cutting of new openings or replacement of structural members.
- H. Prevent accumulation of debris and overloading of any part of the structure.
- I. Prevent access of unauthorized persons to partly demolished areas.
- J. Remove all demolition materials, debris, and rubbish from the site as soon as practicable. Do not permit any accumulation on the site. Transport all demolition materials without spillage on the streets.

END OF SECTION 01900

TECHNICAL SPECIFICATIONS
FOR
**MT. PLEASANT PUBLIC SCHOOLS
HIGH SCHOOL GYMNASIUM WALL REPAIR
MT. PLEASANT, MICHIGAN**

MARCH 27, 2025

A/E NO. 2694-32

OWNER

MT. PLEASANT PUBLIC SCHOOLS
720 N. KINNEY AVENUE
MT. PLEASANT, MICHIGAN 48858
(989) 775-2301

ARCHITECTS/ENGINEERS

KINGSCOTT ASSOCIATES, INC
259 EAST MICHIGAN AVENUE, SUITE 308
KALAMAZOO, MICHIGAN 49007
(269) 381-4880

CONSTRUCTION MANAGER

WOLGAST CORPORATION
EXECUTIVE ONE BUILDING
4835 TOWN CENTRE ROAD, SUITE 203
SAGINAW, MICHIGAN 48604
(989) 790-9120

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

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Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 013300 ARCHITECT'S SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

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

1.2 DEFINITIONS

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

1.3 SUBMITTAL PROCEDURES

- A. General: Electronic copies of CAD Drawings of the Contract Documents will be provided for a cost of \$150 per contractor by Architect for Contractor's use in preparing submittals.
- B. All submittals must be in electronic form. Paper copies are not acceptable unless specifically listed. The architect will review, stamp and return an electronic document for the contractor's use. Copies of the reviewed shop drawings shall be provided by the contractor for distribution as required by the Construction Manager.
- C. Each submittal item shall be submitted in its entirety as one complete package including all information required to fully review the item. Material sample, data, warranty and maintenance information, and drawings shall come as one package. Submittals missing required components and / or without product selections identified will be rejected without review.
- D. Compliance Certificate: Refer to the attached Compliance Certificate. Compliance Certificates are to be used by contractors to indicate the products/devices intended for use in this project without the need and time for product data submittals. Contractors shall use Compliance Certificates whenever possible to expedite the work and limit paper work. Items listed on the form must be approved products listed in the specifications. No substitutions allowed. Select one (1) source for each category, sign this sheet, and submit as the contractor's commitment to use products required by the contract documents. No further product data submittals are required for this section. Physical sample, color samples, or layout shop drawings must be submitted where required by the specification. Refer to the attached specification list for sections that are subject to this certificate. **NOTE: Not all specification sections listed below will apply to the project listed above. There might not be specification sections included that are in the**

project listed above, in that case coordinate with architect at post bid interview for submittal requirements.

- E. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- F. Submittals Schedule: Comply with requirements in Division 1 Section "Construction Progress Documentation" for list of submittals and time requirements for scheduled performance of related construction activities.
- G. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. RFI's, request for information: Allow 5 working days for initial response for each RFI. Allow additional time if coordination with subsequent RFI is required, or when additional information is need for the response.
 - 2. Shop drawings, sample, and product data:
 - a. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 - b. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 - c. Resubmittal Review: Allow 15 days for review of each resubmittal.
 - d. Sequential Review: where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
 - e. Submissions that are large or of multiple submissions or requires detailed or lengthy review by the Architect or his consultant may require additional time.
 - f. Submissions for products or material that require a long lead time for delivery shall be noted as such and marked "Top Priority" so the architect may expedite the process. The architect will expedite reviews when the contractor legitimately can't submit within a reasonable time due to construction schedule. Failure to submit in a timely manner or to allow sufficient time for initial review and resubmittal reviews may result in project delays, additional service charges by the architect, or other penalties for the contractor.

- H. Identification: Place a permanent label or title block on each submittal for identification.
1. Indicate name of firm or entity that prepared each submittal on label or title block.
 2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
 3. Include the following information on label for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name and address of Contractor.
 - e. Name and address of subcontractor.
 - f. Name and address of supplier.
 - g. Name of manufacturer.
 - h. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 06100.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 06100.01.A).
 - i. Number and title of appropriate Specification Section.
 - j. Drawing number and detail references, as appropriate.
 - k. Location(s) where product is to be installed, as appropriate.
 - l. Other necessary identification.
- I. Deviations: Highlight, encircle, or otherwise specifically identify deviations from the Contract Documents on submittals.
- J. Additional Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
1. Additional copies submitted for maintenance manuals will not be marked with action taken and will be returned.
- K. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form including electronic submittals. Architect will discard submittals received from sources other than the Construction Manager. Architect will return any submittal with a transmittal, which doesn't fully list, and properly identify the enclosed items.
- L. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked "Review or reviewed with comments."
- M. Distribution: Furnish copies of reviewed submittals to the Construction Manager, manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

1.4 CONTRACTOR'S USE OF ARCHITECT'S CAD FILES

- A. General: At Contractor's written request, copies of Architect's CAD files will be provided for a cost to the Contractor for Contractor's use in connection with Project, subject to the following conditions:
1. The Architect will provide, for a fee, electronic data files, compatible with AutoCAD for contractor's convenience and use in the preparation of shop drawings. **Refer to Fee Schedule and Terms and Conditions at the end of this specification.** Requests for electronic data and fee quote shall be in written form through the architect. Prior to the release of electronic files, the Architect will require a signed waiver of release and payment of the fee. Contractors should allow a minimum of 1-week for this process.

PART 2 - RFI'S – REQUEST FOR INFORMATION

1. All RFI's shall be submitted to the Architect in electronic form. PDF's and Word files are acceptable.
2. PDF RFI forms shall include an editable text area for response, date, and signature.
3. RFI's shall be distributed by e-mail. E-mail title shall be specific to job name, and RFI number. This is mandatory for proper tracking.
4. Faxed and Hand written RFI's are not acceptable and will be rejected.

PART 3 - PRODUCTS

3.1 ACTION SUBMITTALS

- A. General: Prepare and submit Action Submittals required by individual Specification Sections.
1. Submittal Types:
 - a. Shop Drawing
 - b. Product Data
 - c. Sample
 - d. Other
- B. Kingscott Review Stamp Statement: "Reviewed only for the limited purpose of checking for conformance with the design concept expressed in the Contract Documents. Dimensions, quantities, accuracy, assembly methods, installation methods, coordination with other trades and field verification are the responsibility of the contractor."
1. The following Actions will be taken:
 - a. Reviewed with no exceptions
 - b. Reviewed with Exceptions
 - c. Revise and resubmit
 - d. Rejected

- C. **Product Data:** Collect information into a single submittal for each element of construction and type of product or equipment.
1. Use the Material Compliance form when permitted and whenever possible to save time and paper work.
 2. If information must be specially prepared for submittal because standard data are not suitable for use, submit as Shop Drawings, not as Product Data.
 3. Mark each copy of each submittal to show which products and options are applicable. Unmarked submittals will be rejected. Failure to mark appropriate products will result in rejection of the submittal.
 4. Include the following information, as applicable:
 - a. Manufacturer's written recommendations.
 - b. Manufacturer's product specifications.
 - c. Manufacturer's installation instructions.
 - d. Manufacturer's catalog cuts.
 - e. Wiring diagrams showing factory-installed wiring.
 - f. Printed performance curves.
 - g. Operational range diagrams.
 - h. Compliance with specified referenced standards.
 - i. Testing by recognized testing agency.
 5. **Number of Copies:** Submit one electronic copy of Product Data, unless otherwise indicated. Architect will return one electronic copy. See the Construction Manager's submittal requirements for final record and distribution copy requirements.
- D. **Shop Drawings:** Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal of Architect's CAD Drawings is otherwise permitted.
1. **Preparation:** Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Dimensions.
 - b. Identification of products.
 - c. Fabrication and installation drawings.
 - d. Roughing-in and setting diagrams.
 - e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
 - f. Shop work manufacturing instructions.
 - g. Templates and patterns.
 - h. Schedules.
 - i. Notation of coordination requirements.
 - j. Notation of dimensions established by field measurement.
 - k. Relationship to adjoining construction clearly indicated.
 - l. Seal and signature of professional engineer if specified.
 - m. **Wiring Diagrams:** Differentiate between manufacturer-installed and field-installed wiring.
 2. **Sheet Size:** Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 30 by 40 inches.
 3. **Number of Copies:** Submit one opaque (bond) copy, and one electronic copy of each submittal. Architect will return one electronic copy for printing and distribution.

- E. Samples: **Submit Physical Samples** for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of appropriate Specification Section.
 3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 4. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available. **Scanned color charts, samples, etc. will be REJECTED. Send physical samples, color charts, etc. as described in each specification section.**
 - a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection. **Scanned color charts, samples, etc., will be REJECTED. Send physical samples, color charts, etc. as described in each specification section.**
 - a. Number of Samples: Submit three sets of Samples. Architect will retain one Sample set; remainder will be returned. Mark up and retain one returned Sample set as a Project Record Sample.

3.2 DELEGATED DESIGN

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit four copies of a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 4 - EXECUTION

4.1 CONTRACTOR'S REVIEW

- A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions prior to submission for review. It is the contractor's responsibility to review and identify major discrepancy with the contract documents, and significant missing information. Documents with discrepancies and substantially missing information shall be returned for revisions prior to submission to the Construction Manager.
- B. Mark with approval stamp before submitting to the Construction Manager.
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

4.2 CONSTRUCTION MANAGER'S REVIEW

- A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions prior to submission for review. It is the Construction Manager's responsibility to review and identify major discrepancy with the contract documents, and significant missing information. Documents with discrepancies and substantially missing information shall be returned for revisions prior to submission to the Architect.
- B. Mark with approval stamp before submitting to Architect.
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

4.3 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's and Construction Managers approval stamp, and have not been fully reviewed and will return them without action.
- B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken, as follows:
 1. Reviewed with no exceptions.
 2. Reviewed with exceptions.
 3. Revise and resubmit.
 4. Rejected.

- C. Partial submittals are not acceptable, will be considered non-responsive, and will be returned without review.
- D. Incomplete submittals with substantial missing information, will be considered non-responsive, and will be returned without review.
- E. Non-complaint submittals, will be considered non-responsive, and will be returned without review.
- F. Submittals not required by the Contract Documents will not be reviewed and will be discarded.

Electronic Media Authorization

Payment required prior to release or email a copy of completed check

Project Name: _____ KAI Project# _____

Name : _____ Company: _____

Address: _____

City, State, Zip: _____

Phone: _____ Email: _____

Autocad file version: _____

Signature: _____ Date: _____

By signing, you are agreeing to the Terms and Conditions on the following page

Documents Requested:	KAI DWG #	Issued Date on DWG
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Approved by: _____ Date: _____

Email form to:
dtryles@kingscott.com

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Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt Pleasant, Michigan

SECTION 014000 QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -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 tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, Commissioning Authority, Construction Manager, or authorities having jurisdiction are not limited by provisions of this Section.
 - 4. Specific test and inspection requirements are not specified in this Section.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate those actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect or Construction Manager.

- C. Mockups: Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.
 - 1. Integrated Exterior Mockups: Mockups of the exterior envelope erected separately from the building but on Project site, consisting of multiple products, assemblies, and subassemblies.
 - 2. Room Mockups: Mockups of typical interior spaces complete with wall, floor, and ceiling finishes, doors, windows, millwork, casework, specialties, furnishings and equipment, and lighting.
- D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
- E. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
- F. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
- G. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- I. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
- J. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If 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 conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.

- B. 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 requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 ACTION SUBMITTALS

- A. Shop Drawings: For integrated exterior mockups, provide plans, sections, and elevations, indicating materials and size of mockup construction.
 - 1. Indicate manufacturer and model number of individual components.
 - 2. Provide axonometric drawings for conditions difficult to illustrate in two dimensions.

1.6 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.
- B. Qualification Data : For Contractor's quality-control personnel.
- C. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility sent to authorities having jurisdiction before starting work on the following systems:
 - 1. Seismic-force-resisting system, designated seismic system, or component listed in the designated seismic system quality-assurance plan prepared by Architect.
 - 2. Main wind-force-resisting system or a wind-resisting component listed in the wind-force-resisting system quality-assurance plan prepared by Architect.
- D. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- E. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
 - 1. Specification Section number and title.
 - 2. Entity responsible for performing tests and inspections.
 - 3. Description of test and inspection.
 - 4. Identification of applicable standards.
 - 5. Identification of test and inspection methods.
 - 6. Number of tests and inspections required.
 - 7. Time schedule or time span for tests and inspections.
 - 8. Requirements for obtaining samples.
 - 9. Unique characteristics of each quality-control service.

1.7 CONTRACTOR'S QUALITY-CONTROL PLAN

- A. Quality-Control Plan, General: Submit quality-control plan within 10 days of Notice to Proceed, and not less than five days prior to preconstruction conference. Submit in format acceptable to Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule.
- B. Quality-Control Personnel Qualifications: Engage qualified full-time personnel trained and experienced in managing and executing quality-assurance and quality-control procedures similar in nature and extent to those required for Project.
 - 1. Project quality-control manager may also serve as Project superintendent.
- C. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.
- D. Testing and Inspection: In quality-control plan, include a comprehensive schedule of Work requiring testing or inspection, including the following:
 - 1. Contractor-performed tests and inspections including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections.
 - 2. Special inspections required by authorities having jurisdiction and indicated on the "Statement of Special Inspections."
 - 3. Owner-performed tests and inspections indicated in the Contract Documents, including tests and inspections indicated to be performed by the Commissioning Authority.
- E. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of workmanship established by Contract requirements and approved mockups.
- F. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work Architect has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

1.8 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.

6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, and telephone number of technical representative making report.
2. Statement on condition of substrates and their acceptability for installation of product.
3. Statement that products at Project site comply with requirements.
4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
6. Statement whether conditions, products, and installation will affect warranty.
7. Other required items indicated in individual Specification Sections.

C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, and telephone number of factory-authorized service representative making report.
2. Statement that equipment complies with requirements.
3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
4. Statement whether conditions, products, and installation will affect warranty.
5. Other required items indicated in individual Specification Sections.

D. Permits, Licenses, and Certificates: For 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.

1.9 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.
- F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- H. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- J. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:
 - 1. Contractor responsibilities include the following:
 - a. Provide test specimens representative of proposed products and construction.
 - b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.

- c. Provide sizes and configurations of test assemblies, mockups, and laboratory mockups to adequately demonstrate capability of products to comply with performance requirements.
 - d. Build site-assembled test assemblies and mockups using installers who will perform same tasks for Project.
 - 2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect and Commissioning Authority, through Construction Manager, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.
- K. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
- 1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
 - 2. Notify Architect and Construction Manager seven days in advance of dates and times when mockups will be constructed.
 - 3. Employ supervisory personnel who will oversee mockup construction. Employ workers that will be employed during the construction at Project.
 - 4. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 5. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
 - a. Allow seven days for initial review and each re-review of each mockup.
 - 6. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
 - 7. Demolish and remove mockups when directed unless otherwise indicated.
- L. Integrated Exterior Mockups: Construct integrated exterior mockup according to approved Shop Drawings or as indicated on Drawings. Coordinate installation of exterior envelope materials and products for which mockups are required in individual Specification Sections, along with supporting materials.

1.10 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 - 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 - 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.

3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- B. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
- C. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.
- D. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- E. Testing Agency Responsibilities: Cooperate with Architect, Commissioning Authority , Construction Manager, and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect, Commissioning Authority , Construction Manager, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 6. Do not perform any duties of Contractor.
- F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 4. Facilities for storage and field curing of test samples.

5. Delivery of samples to testing agencies.
 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- H. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.
1. Distribution: Distribute schedule to Owner, Architect, Commissioning Authority, Construction Manager, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.11 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Engage a qualified testing agency or special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner and as follows:

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.
 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's, Commissioning Authority's, and Construction Manager's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt Pleasant, Michigan

SECTION 017300 EXECUTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work, including, but not limited to, the following:
 - 1. Installation of the Work.
 - 2. Cutting and patching.
 - 3. Progress cleaning.
 - 4. Protection of installed construction.
 - 5. Correction of the Work.
- B. Related Requirements:
 - 1. Section 024119 "Selective Demolition" for demolition and removal of selected portions of the building.

1.2 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work.

1.3 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.
 - 2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

- a. Primary operational systems and equipment.
 - b. Air or smoke barriers.
 - c. Mechanical system piping and ducts.
 - d. Control systems
 - e. Electrical wiring systems.
 - f. Operating systems of special construction Division 13 Sections.
- 3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
 - a. Water, moisture, or vapor barriers.
 - b. Membranes and flashings.
 - c. Equipment supports.
 - d. Piping, ductwork, vessels, and equipment.
 - e. Noise- and vibration control elements and systems.
- 4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- B. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of specified products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials. Use materials that are not considered hazardous.
- C. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of utilities and construction indicated as existing are not guaranteed. Before beginning work, investigate and verify the existence and location of construction affecting the Work.
- B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 - 1. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
 - 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
 - 1. Description of the Work, including Specification Section number and paragraph, and Drawing sheet number and detail, where applicable.
 - 2. List of detrimental conditions, including substrates.
 - 3. List of unacceptable installation tolerances.
 - 4. Recommended corrections.
- D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents, submit a request for information to Architect through Construction Manager in accordance with requirements in Section 013100 "Project Management and Coordination."

3.3 CUTTING AND PATCHING

- A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of Work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- E. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements in Section 011000 "Summary."
- F. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
- G. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 5. Proceed with patching after construction operations requiring cutting are complete.
- H. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as practicable, as judged by Architect. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.

2. Exposed Finishes: 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.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent surfaces.
 4. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- I. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.4 PROGRESS CLEANING

- A. Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Use containers intended for holding waste materials of type to be stored.
 4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where Work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

- D. **Installed Work:** Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. **Concealed Spaces:** Remove debris from concealed spaces before enclosing the space.
- F. **Exposed Surfaces:** Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. **Waste Disposal:** Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. **Limiting Exposures:** Supervise construction operations to ensure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.5 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. **Protection of Existing Items:** Provide protection and ensure that existing items to remain undisturbed by construction are maintained in condition that existed at commencement of the Work.
- C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.6 CORRECTION OF THE WORK

- A. Repair or remove and replace damaged, defective, or nonconforming Work. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
- B. Repair Work previously completed and subsequently damaged during construction period. Repair to like-new condition.
- C. Restore permanent facilities used during construction to their specified condition.

- D. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- E. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
- F. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 017300

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High School Gymnasium Wall Repair
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SECTION 024119
SELECTIVE STRUCTURE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of selected portions of building or structure.
 - 2. Salvage of existing items to be reused or recycled.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for restrictions on the use of the premises, Owner-occupancy requirements, and phasing requirements.
 - 2. Section 017300 "Execution" for cutting and patching procedures.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse.
- C. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- D. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site.
 - 1. Inspect and discuss condition of construction to be selectively demolished.
 - 2. Review structural load limitations of existing structure.
 - 3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
 - 5. Review areas where existing construction is to remain and requires protection.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For refrigerant recovery technician.
- B. 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.
- C. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's building manager's on-site operations are uninterrupted.
 - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- D. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.
- E. Predemolition Photographs or Video: Submit before Work begins.
- F. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- G. Warranties: Documentation indicated that existing warranties are still in effect after completion of selective demolition.

1.7 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.

1.8 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.9 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. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: Hazardous materials are present in buildings and structures to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
 - 1. Do not disturb hazardous materials or items suspected of containing hazardous materials except under procedures specified elsewhere in the Contract Documents.
- E. Storage or sale of removed items or materials on-site is not permitted.
- F. 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.

1.10 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties. Notify warrantor before proceeding. Existing warranties include the following:
 - 1. Roofing membrane.
- B. Notify warrantor on completion of selective demolition, and obtain documentation verifying that existing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

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 ANSI/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. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- E. 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.
 - 1. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
- F. Survey of Existing Conditions: Record existing conditions by use of measured drawings, preconstruction photographs and templates.
 - 1. Comply with requirements specified in Section 013233 "Photographic Documentation."
 - 2. Inventory and record the condition of items to be removed and salvaged. Provide photographs of conditions that might be misconstrued as damage caused by salvage operations.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
 - 1. Comply with requirements for existing services/systems interruptions specified in Section 011000 "Summary."
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 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 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.
 - 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.
- C. Refrigerant: Remove refrigerant from mechanical equipment to be selectively demolished according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 PREPARATION

- A. 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.
 - 1. Comply with requirements for access and protection specified in Section 015000 "Temporary Facilities and Controls."
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 - 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.

3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 015000 "Temporary Facilities and Controls."
- C. Temporary Shoring: 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.
1. Strengthen or add new supports when required during progress of selective demolition.

3.4 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 2. 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, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 4. 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 fire watch and portable fire-suppression devices during flame-cutting operations.
 5. Maintain adequate ventilation when using cutting torches.
 6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
 8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 9. Dispose of demolished items and materials promptly. Comply with requirements in Section "Construction Waste Management and Disposal."
- B. 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 designated by Owner.
 5. Protect items from damage during transport and storage.

C. 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.

D. 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 cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Concrete: Demolish in small sections. Using power-driven saw, cut concrete to a depth of at least 3/4 inch at junctures with construction to remain. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.
- B. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, then remove masonry between saw cuts.
- C. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, then break up and remove.
- D. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings." Do not use methods requiring solvent-based adhesive strippers.
- E. Roofing: Remove no more existing roofing than what can be covered in one day by new roofing and so that building interior remains watertight and weathertight. See Section 073113 "Asphalt Shingles Roofing" for new roofing requirements.
1. Remove existing asphalt shingle roofing, flashings, copings, and roof accessories protect existing to remain fascia and gutter/downspouts.
 2. Remove existing roofing system down to substrate. See Section 070150.19 Preparation for Reroofing.

3.6 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
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. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.7 CLEANING

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

3.8 SELECTIVE DEMOLITION SCHEDULE

- A. Existing Items or Construction to Be Removed: Refer to drawings.
- B. Existing Items to Be Removed and Salvaged: Refer to drawings.

END OF SECTION 024119

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SECTION 033000
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

1.2 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section. If differing requirements are identified elsewhere (in these specifications or on drawings or separate instructions), the more stringent requirement shall be met.

1.3 SUMMARY

A. Section Includes:

1. Cast-in-place concrete, including concrete materials, mixture design, placement procedures, and finishes.

B. Refer to Structural Drawings for concrete specifications.

END OF SECTION 033000

SECTION 042000
UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes unit masonry assemblies consisting of the following:
 - 1. Concrete masonry units (CMUs).
 - 2. Building (common) brick
 - 3. Mortar and grout.
 - 4. Reinforcing steel.
 - 5. Masonry joint reinforcement.
 - 6. Ties and anchors.
 - 7. Embedded flashing.
 - 8. Miscellaneous masonry accessories.
- B. Products installed, but not furnished, under this Section include the following:
 - 1. Steel lintels for unit masonry, furnished under Division 05 Section "Metal Fabrications."

1.3 DEFINITIONS

- A. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.4 PERFORMANCE REQUIREMENTS

- A. Provide structural unit masonry that develops indicated net-area compressive strengths (f'_m) at 28 days.
- B. Determine net-area compressive strength (f'_m) of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
- C. Determine net-area compressive strength (f'_m) of masonry by testing masonry prisms according to ASTM C 1314.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For the following:
 - 1. Reinforcing Steel: Detail bending and placement of unit masonry reinforcing bars. Comply with ACI 315, "Details and Detailing of Concrete Reinforcement." Show elevations of reinforced walls.
- C. Material Certificates: Include statements of material properties indicating compliance with requirements including compliance with standards and type designations within standards. Provide for each type and size of the following:
 - 1. Masonry units.
 - a. Include material test reports substantiating compliance with requirements.
 - b. For bricks, include size-variation data verifying that actual range of sizes falls within specified tolerances.
 - c. For exposed brick, include material test report for efflorescence according to ASTM C 67.
 - d. For masonry units used in structural masonry, include data and calculations establishing average net-area compressive strength of units.
 - 2. Cementitious materials. Include brand, type, and name of manufacturer.
 - 3. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
 - 4. Grout mixes. Include description of type and proportions of ingredients.
 - 5. Reinforcing bars.
 - 6. Joint reinforcement.
 - 7. Anchors, ties, and metal accessories.
- D. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
 - 1. Include test reports, per ASTM C 780, for mortar mixes required to comply with property specification.
 - 2. Include test reports, per ASTM C 1019, for grout mixes required to comply with compressive strength requirement.
- E. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type, and resulting net-area compressive strength of masonry determined according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
- F. Cold-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with cold-weather requirements.

1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: An independent agency qualified according to ASTM C 1093 for testing indicated, as documented according to ASTM E 548.
- B. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, through one source from a single manufacturer for each product required.
- C. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from a single manufacturer for each cementitious component and from one source or producer for each aggregate.
- D. Fire-Resistance Ratings: Where indicated, provide materials and construction identical to those of assemblies with fire-resistance ratings determined per ASTM E 119 by a testing and inspecting agency, by equivalent concrete masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.
- D. Deliver preblended, dry mortar mix in moisture-resistant containers designed for lifting and emptying into dispensing silo. Store preblended, dry mortar mix in delivery containers on elevated platforms, under cover, and in a dry location or in a metal dispensing silo with weatherproof cover.
- E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.8 PROJECT CONDITIONS

- A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
 - 1. Extend cover a minimum of 24 inches down both sides and hold cover securely in place.
 - 2. Where 1 wythe of multiwythe masonry walls is completed in advance of other wythes, secure cover a minimum of 24 inches down face next to unconstructed wythe and hold cover in place.
- B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least 3 days after building masonry walls or columns.

- C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
 - 1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
 - 2. Protect sills, ledges, and projections from mortar droppings.
 - 3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
 - 4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.
- D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
 - 1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F and above and will remain so until masonry has dried, but not less than 7 days after completing cleaning.
- E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
 - 1. Products: Subject to compliance with requirements, provide one of the products specified.

2.2 MASONRY UNITS, GENERAL

- A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.
- B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to exceed tolerances and to contain chips, cracks, or other defects exceeding limits stated in the standard. Do not use units where such defects, including dimensions that vary from specified dimensions by more than stated tolerances, will be exposed in the completed Work or will impair the quality of completed masonry.
- C. Fire-Resistance Ratings: Comply with requirements for fire-resistance-rated assembly designs indicated.

1. Where fire-resistance-rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.

2.3 CONCRETE MASONRY UNITS (CMUs)

A. Shapes: Provide shapes indicated and as follows:

1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
2. Provide bullnose units for outside corners, unless otherwise indicated.

B. Concrete Masonry Units: ASTM C 90.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2150 psi.
2. Weight Classification: Medium weight or Normal weight, unless otherwise indicated.
3. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.

2.4 MASONRY LINTELS

A. Masonry Lintels: Prefabricated or built-in-place masonry lintels made from bond beam concrete masonry units matching adjacent CMUs in color, texture, and density classification, with reinforcing bars placed as indicated and filled with coarse grout. Cure precast lintels before handling and installing. Temporarily support built-in-place lintels until cured.

2.5 MORTAR AND GROUT MATERIALS

A. Portland Cement: ASTM C 150, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.

B. Hydrated Lime: ASTM C 207, Type S.

C. Portland Cement-Lime Mix: Packaged blend of portland cement complying with ASTM C 150, Type I or Type III, and hydrated lime complying with ASTM C 207, Type S.

D. Masonry Cement: ASTM C 91.

1. Products:

- a. Capital Materials Corporation; Flamingo Color Masonry Cement.
- b. Essroc, Italcementi Group; Brixment or Velvet.
- c. Lafarge North America Inc.,.
- d. National Cement Company, Inc.; Coosa Masonry Cement.

E. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes. Use only pigments with a record of satisfactory performance in masonry mortar.

1. Products:
 - a. Bayer Corporation, Industrial Chemicals Div.; Bayferrox Iron Oxide Pigments.
 - b. Davis Colors; True Tone Mortar Colors.
 - c. Solomon Grind-Chem Services, Inc.; SGS Mortar Colors.
- F. Colored Cement Product: Packaged blend made from portland cement and lime, masonry cement and mortar pigments, all complying with specified requirements, and containing no other ingredients.
1. Formulate blend as required to produce color indicated or, if not indicated, as selected from manufacturer's standard colors.
 2. Pigments shall not exceed 10 percent of portland cement by weight.
 3. Pigments shall not exceed 5 percent of masonry cement by weight.
 4. Products:
 - a. Colored Portland Cement-Lime Mix:
 - 1) Capital Materials Corporation; Riverton Portland Cement Lime Custom Color.
 - 2) Lafarge North America Inc.; Eaglebond.
 - b. Colored Masonry Cement:
 - 1) Capital Materials Corporation; Flamingo Color Masonry Cement.
 - 2) Essroc, Italcementi Group; Brixment-in-Color.
 - 3) Lafarge North America Inc.; Florida Custom Color Masonry or Magnolia Masonry Cement.
 - 4) National Cement Company, Inc.; Coosa Masonry Cement.
- G. Aggregate for Mortar: ASTM C 144.
1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
 2. For joints less than 1/4 inch thick, use aggregate graded with 100 percent passing the No. 16 sieve.
 3. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
- H. Aggregate for Grout: ASTM C 404.
- I. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
1. Products:
 - a. Addiment Incorporated; Mortar Kick.
 - b. Euclid Chemical Company (The); Accelguard 80.
 - c. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Morset.
 - d. Sonneborn, Div. of ChemRex; Trimix-NCA.

- J. Water: Potable.

2.6 REINFORCEMENT

- A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.
- B. Masonry Joint Reinforcement, General: ASTM A 951.
 - 1. Interior Walls: Hot-dip galvanized, carbon steel.
 - 2. Exterior Walls: Hot-dip galvanized, carbon steel.
 - 3. Wire Size for Side Rods: W1.7 or 0.148-inch diameter.
 - 4. Wire Size for Cross Rods: W1.7 or 0.148-inch diameter.
 - 5. Wire Size for Veneer Ties: 0.148-inch diameter
 - 6. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches o.c.
 - 7. Provide in lengths of not less than 10 feet , with prefabricated corner and tee units.
- C. Masonry Joint Reinforcement for Single-Wythe Masonry: Either ladder or truss type with single pair of side rods.
- D. Masonry Joint Reinforcement for Multiwythe Masonry:
 - 1. Adjustable (two-piece) type, either ladder or truss design, with one side rod at each face shell of backing wythe and with separate ties that extend into facing wythe. Ties have two hooks that engage eyes or slots in reinforcement and resist movement perpendicular to wall. Ties extend at least halfway through facing wythe but with at least 5/8-inch cover on outside face. Ties have hooks or clips to engage a continuous horizontal wire in the facing wythe.

2.7 TIES AND ANCHORS

- A. Materials: Provide ties and anchors specified in subsequent paragraphs that are made from materials that comply with eight subparagraphs below, unless otherwise indicated.
- B. Wire Ties, General: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but with at least 5/8-inch cover on outside face. Outer ends of wires are bent 90 degrees and extend 2 inches parallel to face of veneer.
- C. Adjustable Anchors for Connecting to Structure: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
- D. Partition Top anchors: 0.097-inch- thick metal plate with 3/8-inch- diameter metal rod 6 inches long welded to plate and with closed-end plastic tube fitted over rod that allows rod to move in and out of tube. Fabricate from steel, hot-dip galvanized after fabrication.

2.8 MISCELLANEOUS ANCHORS

- A. Anchor Bolts: Headed or L-shaped steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers; hot-dip galvanized to comply with ASTM A 153/A 153M, Class C; of dimensions indicated.

2.9 EMBEDDED FLASHING MATERIALS

- A. Metal Flashing: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
1. Stainless Steel: ASTM A 240/A 240M or ASTM A 666, Type 304, 0.016 inch thick.
 2. Fabricate continuous flashings in sections 96 inches long minimum, but not exceeding 12 feet. Provide splice plates at joints of formed, smooth metal flashing.
 3. Fabricate through-wall metal flashing embedded in masonry from stainless steel, with ribs at 3-inch intervals along length of flashing to provide an integral mortar bond.
 4. Fabricate through-wall flashing with drip edge unless otherwise indicated. Fabricate by extending flashing 1/2 inch out from wall, with outer edge bent down 30 degrees and hemmed.
- B. Flexible Flashing: For flashing not exposed to the exterior, use one of the following, unless otherwise indicated:
1. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.040 inch.
 - a. Products:
 - 1) Advanced Building Products Inc.; Peel-N-Seal.
 - 2) Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - 3) Dayton Superior Corporation, Dur-O-Wal Division; Dur-O-Barrier-44.
 - 4) Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Perm-A-Barrier Wall Flashing.
 - 5) Heckmann Building Products Inc.; No. 82 Rubberized-Asphalt Thru-Wall Flashing.
 - 6) Hohmann & Barnard, Inc.; Textroflash.
 - 7) Polyguard Products, Inc.; Polyguard 300.
 - 8) Polytite Manufacturing Corp.; Poly-Barrier Self-Adhering Wall Flashing.
 - 9) Williams Products, Inc.; Everlastic MF-40.
 2. EPDM Flashing: Sheet flashing product made from ethylene-propylene-diene terpolymer, complying with ASTM D 4637, 0.040 inch thick.
 - a. Products:
 - 1) Carlisle Coatings & Waterproofing; Pre-Kleened EPDM Thru-Wall Flashing.
 - 2) Firestone Building Products; FlashGuard.
 - 3) Heckmann Building Products Inc.; No. 81 EPDM Thru-Wall Flashing.
- C. Single-Wythe CMU Flashing System: System of CMU cell flashing pans and interlocking CMU web covers made from high-density polyethylene incorporating chemical stabilizers that prevent UV degradation. Cell flashing pans have integral weep spouts that are designed to be built into mortar bed joints and weep collected moisture to the exterior of CMU walls and that extend into the cell to prevent clogging with mortar.

1. Product: Subject to compliance with requirements, provide "Blok-Flash" by Advanced Building Products Inc.
- D. Solder and Sealants for Sheet Metal Flashings: As specified in Division 07 Section "Sheet Metal Flashing and Trim."
1. Solder for Stainless Steel: ASTM B 32, Grade Sn60, with acid flux of type recommended by stainless-steel sheet manufacturer.
 2. Elastomeric Sealant: ASTM C 920, chemically curing silicone sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
- E. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

2.10 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene, urethane or PVC.
- B. Bond-Breaker Strips: Asphalt-saturated, organic roofing felt complying with ASTM D 226, Type I (No. 15 asphalt felt).
- C. Weep/Vent Products: Use the following, unless otherwise indicated:
1. Vinyl Weep Hole/Vent: One-piece, offset, T-shaped units made from flexible, injection-molded PVC, designed to fit into a head joint and consisting of a louvered vertical leg, flexible wings to seal against ends of masonry units, and a top flap to keep mortar out of the head joint; in color approved by Architect to match that of mortar.
 - a. Products:
 - 1) Hohmann & Barnard, Inc.; #343 Louvered Weep Hole.
 - 2) Williams Products, Inc.; Williams-Goodco Brick Vent.
 - 3) Wire-Bond; Louvered Weepholes.
- D. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells with loops for holding reinforcing bars in center of cells. Units are formed from 0.142-inch steel wire, hot-dip galvanized after fabrication. Provide units with either two loops or four loops as needed for number of bars indicated.
1. Products:
 - a. Dayton Superior Corporation, Dur-O-Wal Division; D/A 810, D/A 812 or D/A 817.
 - b. Heckmann Building Products Inc.; No. 376 Rebar Positioner.
 - c. Hohmann & Barnard, Inc.; #RB or #RB-Twin Rebar Positioner.

2.11 MASONRY CLEANERS

- A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.

2.12 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures, unless otherwise indicated.
 - 1. Do not use calcium chloride in mortar or grout.
 - 2. Limit cementitious materials in mortar to portland cement and lime.
 - 3. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.
- B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.
- C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry.
- D. Mortar for Unit Masonry: Comply with ASTM C 270, Property Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry.
 - 1. For masonry below grade or in contact with earth, use Type M.
 - 2. For reinforced masonry, use Type S.
 - 3. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions; and for other applications where another type is not indicated, use Type N.
 - 4. For interior non-load-bearing partitions, Type O may be used instead of Type N.
- E. Grout for Unit Masonry: Comply with ASTM C 476.
 - 1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with Table 1.15.1 in ACI 530.1/ASCE 6/TMS 602 for dimensions of grout spaces and pour height.
 - 2. Provide grout with a slump of 8 to 11 inches as measured according to ASTM C 143/C 143M.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
 - 1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of work.
 - 2. Verify that foundations are within tolerances specified.
 - 3. Verify that reinforcing dowels are properly placed.
- B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Thickness: Build cavity and composite walls and other masonry construction to full thickness shown. Build single-wythe walls to actual widths of masonry units, using units of widths indicated.
- B. Build chases and recesses to accommodate items specified in this and other Sections.
- C. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.
- D. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.
- E. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures.
 - 1. Mix units from several pallets or cubes as they are placed.
- F. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.
- G. Wetting of Brick: Wet brick before laying if initial rate of absorption exceeds 30 g/30 sq. in. per minute when tested per ASTM C 67. Allow units to absorb water so they are damp but not wet at time of laying.
- H. Comply with construction tolerances in ACI 530.1/ASCE 6/TMS 602 and with the following:
 - 1. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.
 - 2. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet, or 1/2 inch maximum.
 - 3. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.

4. For exposed bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch, with a maximum thickness limited to 1/2 inch. Do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.
5. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch. Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch.
6. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.
7. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch from one masonry unit to the next.

3.3 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less than nominal 4-inch horizontal face dimensions at corners or jambs.
- C. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than 4-inches. Bond and interlock each course of each wythe at corners. Do not use units with less than nominal 4-inch horizontal face dimensions at corners or jambs.
- D. Stopping and Resuming Work: Stop work by racking back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.
- E. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.
- F. Fill space between steel frames and masonry solidly with mortar, unless otherwise indicated.
- G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below and rod mortar or grout into core.
- H. Fill cores in hollow concrete masonry units with grout 24 inches under bearing plates, beams, lintels, posts, and similar items, unless otherwise indicated.
- I. Build non-load-bearing interior partitions full height of story to underside of solid floor or roof structure above, unless otherwise indicated.
 1. Install compressible filler in joint between top of partition and underside of structure above.
 2. Fasten partition top anchors to structure above and build into top of partition. Grout cells of CMUs solidly around plastic tubes of anchors and push tubes down into grout to provide

- 1/2-inch clearance between end of anchor rod and end of tube. Space anchors 48 inches o.c., unless otherwise indicated.
3. At fire-rated partitions, treat joint between top of partition and underside of structure above to comply with Division 07 Section "Fire-Resistive Joint Systems."

3.4 MORTAR BEDDING AND JOINTING

- A. Lay hollow concrete masonry units as follows:
 1. With face shells fully bedded in mortar and with head joints of depth equal to bed joints.
 2. With webs fully bedded in mortar in all courses of piers, columns, and pilasters.
 3. With webs fully bedded in mortar in grouted masonry, including starting course on footings.
 4. With entire units, including areas under cells, fully bedded in mortar at starting course on footings where cells are not grouted.
- B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.
- C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness, unless otherwise indicated.

3.5 COMPOSITE MASONRY

- A. Bond wythes of composite masonry together using one of the following methods:
 1. Masonry Joint Reinforcement: Installed in horizontal mortar joints.
 - a. Where bed joints of both wythes align, use ladder-type reinforcement extending across both wythes.
- B. Corners: Provide interlocking masonry unit bond in each wythe and course at corners, unless otherwise indicated.
 1. Provide continuity with masonry joint reinforcement at corners by using prefabricated L-shaped units as well as masonry bonding.
- C. Intersecting and Abutting Walls: Unless vertical expansion or control joints are shown at juncture, bond walls together as follows:
 1. Provide continuity with masonry joint reinforcement by using prefabricated T-shaped units.

3.6 CAVITY WALLS

- A. Bond wythes of cavity walls together using one of the following methods:

1. Masonry Joint Reinforcement: Installed in horizontal mortar joints.
 - a. Where bed joints of wythes do not align, use adjustable (two-piece) type reinforcement with continuous horizontal wire in facing wythe attached to ties.
 - b. Where one wythe is of clay masonry and the other of concrete masonry, use adjustable (two-piece) type reinforcement with continuous horizontal wire in facing wythe attached to ties to allow for differential movement regardless of whether bed joints align.
- B. Keep cavities clean of mortar droppings and other materials during construction. Bevel beds away from cavity, to minimize mortar protrusions into cavity. Do not attempt to trowel or remove mortar fins protruding into cavity.

3.7 MASONRY JOINT REINFORCEMENT

- A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.
 1. Space reinforcement not more than 16 inches o.c.
 2. Space reinforcement not more than 8 inches o.c. in foundation walls and parapet walls.
 3. Provide reinforcement not more than 8 inches above and below wall openings and extending 12 inches beyond openings.
 - a. Reinforcement above is in addition to continuous reinforcement.
- B. Interrupt joint reinforcement at control and expansion joints, unless otherwise indicated.
- C. Provide continuity at wall intersections by using prefabricated T-shaped units.
- D. Provide continuity at corners by using prefabricated L-shaped units.
- E. Cut and bend reinforcing units as directed by manufacturer for continuity at corners, returns, offsets, column fireproofing, pipe enclosures, and other special conditions.

3.8 ANCHORING MASONRY TO STRUCTURAL MEMBERS

- A. Anchor masonry to structural members where masonry abuts or faces structural members to comply with the following:
 1. Provide an open space not less than 1/2 inch in width between masonry and structural member, unless otherwise indicated. Keep open space free of mortar and other rigid materials.
 2. Anchor masonry to structural members with anchors embedded in masonry joints and attached to structure.
 3. Space anchors as indicated, but not more than 24 inches o.c. vertically and 36 inches o.c. horizontally.

3.9 CONTROL AND EXPANSION JOINTS

- A. General: Install control and expansion joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.
- B. Form control joints in concrete masonry as follows:
 - 1. Fit bond-breaker strips into hollow contour in ends of concrete masonry units on one side of control joint. Fill resultant core with grout and rake out joints in exposed faces for application of sealant.
- C. Form expansion joints in brick made from clay or shale as follows:
 - 1. Form open joint full depth of brick wythe and of width indicated, but not less than 3/8 inch for installation of sealant and backer rod specified in Division 07 Section "Joint Sealants."

3.10 LINTELS

- A. Install steel lintels where indicated.
- B. Provide masonry lintels where shown and where openings of more than 12 inches for brick-size units and 24 inches for block-size units are shown without structural steel or other supporting lintels.
- C. Provide minimum bearing of 8 inches at each jamb, unless otherwise indicated.

3.11 FLASHING, WEEP HOLES, CAVITY DRAINAGE, AND VENTS

- A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.
- B. Install flashing as follows, unless otherwise indicated:
 - 1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
 - 2. At multiwythe masonry walls, including cavity walls, extend flashing through outer wythe, turned up a minimum of 8 inches, and 1-1/2 inches into the inner wythe. Form 1/4-inch hook in edge of flashing embedded in inner wythe.
 - 3. At lintels and shelf angles, extend flashing a minimum of 6 inches into masonry at each end. At heads and sills, extend flashing 6 inches at ends and turn up not less than 2 inches to form end dams.
 - 4. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall and adhere flexible flashing to top of metal drip edge.

- C. Install reglets and nailers for flashing and other related construction where they are shown to be built into masonry.
- D. Install weep holes in head joints in exterior wythes of first course of masonry immediately above embedded flashing and as follows:
 - 1. Use specified weep/vent products to form weep holes.
 - 2. Space weep holes 24 inches o.c., unless otherwise indicated.
- E. Place cavity drainage material in cavities to comply with configuration requirements for cavity drainage material in Part 2 "Miscellaneous Masonry Accessories" Article.

3.12 REINFORCED UNIT MASONRY INSTALLATION

- A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
 - 1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
 - 2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other temporary loads that may be placed on them during construction.
- B. Placing Reinforcement: Comply with requirements in ACI 530.1/ASCE 6/TMS 602.
- C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.
 - 1. Comply with requirements in ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
 - 2. Limit height of vertical grout pours to not more than 60 inches.

3.13 FIELD QUALITY CONTROL

- A. Inspectors: Owner will engage qualified independent inspectors to perform inspections and prepare reports. Allow inspectors access to scaffolding and work areas, as needed to perform inspections.
 - 1. Place grout only after inspectors have verified compliance of grout spaces and grades, sizes, and locations of reinforcement.

3.14 REPAIRING, POINTING, AND CLEANING

- A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

- B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.
- C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
 - 1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
 - 2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
 - 3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
 - 4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
 - 5. Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.
 - 6. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.
 - 7. Clean concrete masonry by cleaning method indicated in NCMA TEK 8-2A applicable to type of stain on exposed surfaces.

3.15 MASONRY WASTE DISPOSAL

- A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

3.16 COLOR SCHEDULE

BLOCK AND BRICK SCHEDULE

MORTAR: Use standard grey throughout.

BRICK:

High School

Match Existing

Mortar: Match existing.

END OF SECTION 042000

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 055000
METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
- B. Products furnished, but not installed, under this Section:
 - 1. Loose steel lintels.

- 1.3 See Structural Drawings for specifications.

END OF SECTION 055000

SECTION 061053
MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1.Parapet cap.
 - 2.Wood blocking and nailers.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1.Factory mark each piece of lumber with grade stamp of grading agency.
 - 2.Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
 - 3.Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal thickness or less, 19 percent for more than 2-inch nominal thickness unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment by Pressure Process: AWP A U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.

1.Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

1.For exposed lumber indicated to receive a stained or natural finish, mark end or back of each piece.

D. Application: Treat items indicated on Drawings, and the following:

1.Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.

2.Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.

3.Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.

4.Wood floor plates that are installed over concrete slabs-on-grade.

2.3 PARAPET CAP

A. General: Provide Prebuck Parapet Cap at parapet top of wall as detailed.

1.Prebuck LLC– of Tremco Constructions Product Group

a. Acceptable for direct contact with concrete, non-corrosive to metals, insect and fungi resistive.

b. Materials: StrandGuard TimberStrand LSL 1.30E Engineered Lumber, ICC ESR-1387.

2.4 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1.Blocking.

B. For items of dimension lumber size, provide Construction or No. 2 grade lumber with 15 percent maximum moisture content and any of the following species:

1.Western woods; WCLIB or WHPA.

2.Northern species; NLGA.

3.Eastern softwoods; NELMA.

C. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:

1. Eastern softwoods, No. 2 Common Grade, WCLIB, WHPA. grade, NELMA

2. Northern Species No. 2 Common Grade, NLGA
 3. Western Softwoods, Construction or No. 2 Common grade, WCLIB or WWPA.
- D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.
 - E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.5 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
 1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.
- B. Nails, Brads, and Staples: ASTM F 1667.
- C. Power-Driven Fasteners: NES NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Screws for Fastening to Metal Framing: ASTM C 1002 and ASTM C 954, length as recommended by screw manufacturer for material being fastened.
- F. Lag Bolts: ASME B18.2.1.
- G. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.
- H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
 1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

- B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- C. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- D. Do not splice structural members between supports unless otherwise indicated.
- E. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
- F. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- G. Comply with AWP A M4 for applying field treatment to cut surfaces of preservative-treated lumber.
 - 1. Use inorganic boron for items that are continuously protected from liquid water.
 - 2. Use copper naphthenate for items not continuously protected from liquid water.

3.2 WOOD GROUND, BLOCKING, AND NAILER INSTALLATION

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

END OF SECTION 061053

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 079200 JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes joint sealants for the following applications:
 - 1. Exterior joints in the following vertical surfaces and horizontal nontraffic surfaces:
 - a. Control and expansion joints in unit masonry.
 - b. Perimeter joints between materials listed above and frames of doors, windows, and louvers.
 - c. Other joints as indicated.
 - 2. Interior joints in the following vertical surfaces and horizontal nontraffic surfaces:
 - a. Control and expansion joints on exposed interior surfaces of exterior walls.
 - b. Perimeter joints of exterior openings where indicated.
 - c. Vertical joints on exposed surfaces of interior unit masonry, concrete, walls, acoustic isolation joints and partitions.
 - d. Perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances.
 - e. Other joints as indicated.
- B. Related Sections include the following:
 - 1. Division 4 Section "Unit Masonry Assemblies" for masonry control and expansion joint fillers and gaskets.

1.3 PERFORMANCE REQUIREMENTS

- A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.
- B. Provide joint sealants for interior applications that establish and maintain airtight and water-resistant continuous joint seals without staining or deteriorating joint substrates.

1.4 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
- C. Warranties: Special warranties specified in this Section.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized Installer who is approved or licensed for installation of elastomeric sealants required for this Project.
- B. Source Limitations: Obtain each type of joint sealant through one source from a single manufacturer.

1.6 PROJECT CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
 - 1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
 - 2. When joint substrates are wet.
 - 3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
 - 4. Contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.7 WARRANTY

- A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer's standard form in which elastomeric sealant manufacturer agrees to furnish elastomeric joint sealants to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.
 - 1. Warranty Period: Twenty years from date of Substantial Completion.
- C. Special warranties specified in this Article exclude deterioration or failure of elastomeric joint sealants from the following:

1. Movement of the structure resulting in stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression caused by structural settlement or errors attributable to design or construction.
2. Disintegration of joint substrates from natural causes exceeding design specifications.
3. Mechanical damage caused by individuals, tools, or other outside agents.
4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.

2.2 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer, based on testing and field experience.
- B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.3 ELASTOMERIC JOINT SEALANTS

- A. Elastomeric Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied chemically curing sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- B. Stain-Test-Response Characteristics: Where elastomeric sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
- C. Suitability for Immersion in Liquids. Where elastomeric sealants are indicated for Use I for joints that will be continuously immersed in liquids, provide products that have undergone testing according to ASTM C 1247 and qualify for the length of exposure indicated by reference to ASTM C 920 for Class 1 or 2. Liquid used for testing sealants is deionized water, unless otherwise indicated.
- D. Suitability for Contact with Food: Where elastomeric sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600.
- E. Single-Component Mildew-Resistant Neutral-Curing Silicone Sealant **ES-2**:
 1. Available Products:
 - a. Pecora Corporation; 898.
 - b. Tremco; Tremsil 600.

2. Type and Grade: S (single component) and NS (nonsag).
3. Class: 25.
4. Use Related to Exposure: NT (nontraffic).
5. Uses Related to Joint Substrates: G, A, and, as applicable to joint substrates indicated, O.
 - a. Use O Joint Substrates: Coated glass, color anodic aluminum, aluminum coated with a high-performance coating, galvanized steel and ceramic tile.

F. Multicomponent Nonsag Urethane Sealant **ES-1**:

1. Available Products:
 - a. Pecora Corporation; Dynatrol II.
 - b. Tremco; Dymeric 511.
 - c. Tremco; Vulkem 922.
2. Type and Grade: M (multicomponent) and NS (nonsag).
3. Class: 25.
4. Use Related to Exposure: NT (nontraffic).
5. Uses Related to Joint Substrates: M, A, and, as applicable to joint substrates indicated, O.
 - a. Use O Joint Substrates: Color anodic aluminum, aluminum coated with a high-performance coating, galvanized steel, brick, granite, limestone, marble, ceramic tile and wood.
6. Color: As selected by Architect from manufacturer's full line of available colors.
 - a. At control joints in brick, as selected to match adjacent brick color.

2.4 LATEX JOINT SEALANTS

A. Latex Sealant **LS-1**: Comply with ASTM C 834, Type P, Grade NF.

B. Available Products:

1. Bostik Findley; Chem-Calk 600.
2. Pecora Corporation; AC-20+.
3. Sonneborn, Division of ChemRex Inc.; Sonolac.
4. Tremco; Tremflex 834.

2.5 JOINT-SEALANT BACKING

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:

- C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 26 deg F. Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth, and to otherwise contribute to optimum sealant performance.
- D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

2.6 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
 - 1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 - 2. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after

cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:

- a. Concrete.
- b. Masonry.
- c. Unglazed surfaces of ceramic tile.

3. Remove laitance and form-release agents from concrete.
4. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:

- a. Metal.
- b. Glass.
- c. Porcelain enamel.
- d. Glazed surfaces of ceramic tile.

- B. Joint Priming: Prime joint substrates, where recommended in writing by joint-sealant manufacturer, based on preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Acoustical Sealant Application Standard: Comply with recommendations in ASTM C 919 for use of joint sealants in acoustical applications as applicable to materials, applications, and conditions indicated.
- D. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 1. Do not leave gaps between ends of sealant backings.
 2. Do not stretch, twist, puncture, or tear sealant backings.
 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- E. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

- F. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
1. Place sealants so they directly contact and fully wet joint substrates.
 2. Completely fill recesses in each joint configuration.
 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- G. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
1. Remove excess sealant from surfaces adjacent to joints.
 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 3. Provide concave joint configuration per Figure 5A in ASTM C 1193, unless otherwise indicated.
 4. Provide flush joint configuration where indicated per Figure 5B in ASTM C 1193.
 5. Provide recessed joint configuration of recess depth and at locations indicated per Figure 5C in ASTM C 1193.
 - a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.5 PROTECTION

Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

END OF SECTION 079200

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 084113
ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

- 1. Exterior storefront framing.
- 2. Exterior and interior manual-swing entrance doors and door-frame units.

1.3 Remove and Salvage existing aluminum entrance system, and reinstall in new wall.

1.4 Re-use existing hardware.

END OF SECTION 084113

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 096466
WOOD ATHLETIC FLOORING (BASE)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- a. Provide vented sports flooring wall base to match existing.

END OF SECTION 099600

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

SECTION 099600 HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes surface preparation and application of high-performance coating systems on the following substrates:
 - 1. Interior Substrates
 - a. Concrete masonry units (CMU).
 - b. Steel.
- B. Related Requirements:

1.3 DEFINITIONS

- A. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- B. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include preparation requirements and application instructions.
- B. Samples for Verification: For each type of coating system and in each color and gloss of topcoat indicated.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Step coats on Samples to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.

- C. Product List: For each product indicated, include the following:
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.
 - 3. VOC content.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Coatings: 5 percent, but not less than 1 gal. of each material and color applied.

1.6 DELIVERY, STORAGE, AND HANDLING

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

1.7 FIELD CONDITIONS

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

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The Sherwin Williams Company
- B. PPG
- C. Architect's Pre-Approved Equal

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and are listed in "MPI Approved Products List."
- B. Material Compatibility:
 - 1. Provide materials for use within each coating system that are compatible with one another, and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a coating system, provide products recommended in writing by manufacturers of topcoat for use in coating system and on substrate indicated.
 - 3. Provide products of same manufacturer for each coat in a coating system.
- C. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.
 - 1. Non-flat Paints and Coatings: 150 g/L.
 - 2. Primers, Sealers, and Under-coaters: 200 g/L.
 - 3. Anti-Corrosive and Anti-Rust Paints Applied to Ferrous Metals: 250 g/L.
 - 4. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
 - 5. Pre-Treatment Wash Primers: 420 g/L.
- D. Low-Emitting Materials: Interior coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- E. Colors: See Paint Color Schedule in Specification 099123 Interior Painting.

2.3 BLOCK FILLERS

- A. Block Filler, Latex, Interior/Exterior: **MPI #4.**

2.4 INTERIOR PRIMERS/SEALERS

- A. Primer Sealer, Latex, Interior: **MPI #50.**

2.5 METAL PRIMERS

- A. Primer, Rust-Inhibitive, Water Based: **MPI #107.**
 - 1. Provide metal primer that is approved by manufacturer of top coat MPI #153.

2.6 EPOXY COATINGS

- A. Pre-Catalyzed Water based Epoxy, Interior, Semi-Gloss **MPI #153.**
 - 1. Sherwin Williams / Pro Industrial Pre-Catalyzed Water based Epoxy.

2. PPG / PITT-GLAZE Pre-Catalyzed Water based Epoxy.

2.7 SOURCE QUALITY CONTROL

- A. Testing of Coating Materials: Owner reserves the right to invoke the following procedure:
 1. Owner will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
 2. Testing agency will perform tests for compliance with product requirements.
 3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - a. Concrete: 12 percent.
 - b. Masonry (Clay and CMU): 12 percent.
 - c. Wood: 15 percent.
 - d. Gypsum Board: 12 percent.
- B. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.

- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 - 1. Clean surfaces with pressurized water. Use pressure range of 1500 to 4000 psi at 6 to 12 inches.
 - 2. Abrasive blast clean surfaces to comply with SSPC-SP 7/NACE No. 4, "Brush-Off Blast Cleaning."
- E. Masonry Substrates: Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions.
 - 1. Clean surfaces with pressurized water. Use pressure range of 1500 to 4000 psi at 6 to 12 inches.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer but not less than the following:
- G. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
 - 1. SSPC-SP 7/NACE No. 4." Brush-Off Blast Cleaning"
- H. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- I. Adhesion Testing: Provide adhesion testing per ASTM-D-3359 at each type of existing substrate to confirm the proper adhesion of new finish.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.

2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Coat back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
 - C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
 - D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner will engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
 1. Contractor shall touch up and restore coated surfaces damaged by testing.
 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

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

3.6 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. CMU Substrates:

1. Pre-Catalyzed Water Based Epoxy System:

- a. Block Filler: Block filler, latex, interior/exterior, MPI #4.
- b. Intermediate Coat: Epoxy-modified latex, interior, Semi-Gloss, MPI #153.
- c. Topcoat: Epoxy-modified latex, interior, Semi-Gloss MPI #153.

B. Steel Substrates:

1. Pre-Catalyzed Water Based Epoxy System:

- a. Prime Coat: Primer, rust-inhibitive, as recommended in writing by topcoat manufacturer.
- b. Intermediate Coat: Epoxy-modified latex, interior, Semi-Gloss, MPI #153.
- c. Topcoat: Epoxy-modified latex, interior, Semi-Gloss, MPI #153.

3.7 INTERIOR PAINT COLOR SCHEDULE

A. Match existing.

END OF SECTION 099600

SECTION 230005 - BASIC HVAC REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. This section applies to all sections of Division 23.
- B. Drawings and general provisions of the contract, including Division 00 and Division 01 specification sections, apply to work of this section.
- C. Provide all items, articles, materials, operations or methods listed, mentioned or scheduled on drawings and/or herein, including all labor, materials, equipment and incidentals necessary and required for their completion.
- D. The items in this section are supplementary to the requirements set forth in other portions of the specifications as indicated under item "A" above.

1.2 APPLICATION

- A. This section applies to all HVAC work. The contractors involved shall check all sections of the specifications in addition to the particular section covering their specific trade. Each distinct section of the specifications aimed for one trade may have detailed information with regards to other trades, therefore, it is imperative that all sections be reviewed to get a complete picture of all other trades' functions and work required.
- B. The mechanical contractor is responsible for the installation and operation of the HVAC systems and temperature control systems.
- C. The mechanical contractor is responsible for receiving, unloading and placement of all of the owner provided equipment.

1.3 INSPECTION OF SITE

- A. Each Contractor shall visit the site prior to bid submission to determine all existing conditions that may affect his work and shall make appropriate allowances for such conditions in his bid. Failure to visit the site shall not be cause for a request for additional compensation later in the project during construction.
- B. The submitting of a proposal implies that the contractor has visited the site and understands the conditions under which the work must be conducted.
- C. Install Work in locations shown on Drawings, unless prevented by Project conditions.
- D. Prepare drawings showing proposed rearrangement of Work to meet Project conditions, including changes to Work specified in other Sections. Obtain permission of Owner before proceeding.

1.4 ALTERNATES AND SUBSTITUTIONS

- A. Refer to Division 01 - General Requirements for procedures to submit products by a Manufacturer that is not listed as approved equal in the Specifications.

1.5 MATERIALS

- A. Mechanical equipment is to be furnished with motors, electrical controls and protective devices, and integral operating devices which are normally included by the manufacturer or required by the Contract Documents.
- B. The Mechanical Trades shall provide all control wiring, 120 volts and less, for the equipment and devices furnished under Division 22, and 23 of these specifications, including all wiring devices, conduit, etc.
- C. Power wiring 120 volts and greater shall be by the Electrical Trades.

1.6 CODES, PERMITS AND FEES

- A. Unless otherwise indicated, all required permits, licenses, inspections, approvals and fees for mechanical work shall be secured and paid for by the contractor. All work shall conform to all applicable codes, rules and regulations. Applicable publications listed in all sections of Division 23 shall be the latest issue, unless otherwise noted.
- B. Rules of local utility companies and municipalities shall be complied with. Check with the utility company and/or municipality supplying service to the installation and determine all devices including, but not limited to: meters, regulators, valves which will be required and include the cost of all such items in the proposal.
- C. All work shall be executed in accordance with the rules and regulations set forth in local and state codes. Prepare any detailed drawings or diagrams which may be required by the governing authorities. Where the drawings and/or specifications indicate materials or construction in excess of code requirements, the drawings and/or specifications shall govern.

1.7 WARRANTY AND GUARANTEE

- A. Contractor shall guarantee all work installed by themselves or their subcontractors to be free from defect in material and workmanship for a period of one year from date of final acceptance of the work, unless a longer period is stipulated under specific headings. Contractor shall repair or replace at no additional cost to the owner, any material or equipment developing defects and shall also make good any damage caused by such defects or the correction of defects. Repairs or replacements shall bear additional guarantee, as originally called for, dated from the final acceptance of the repair or replacement. This requirement shall be binding even though it will exceed product guarantees normally furnished by some manufacturers. Contractor shall submit his own and each equipment manufacturers written certificates, warranting that each item of equipment furnished complies with all requirements of the drawings and specifications. Note that guarantee shall run from date of final acceptance of the work, not from date of installation

of a device or piece of equipment.

1.8 DRAWINGS

- A. The drawings are diagrammatic and show the general location and arrangement of all equipment, piping and related items. They shall be followed as closely as elements of the construction will permit.
- B. Examine the drawings of other trades and verify the conditions governing the work on the job site. The mechanical contractor shall check all documents including architectural, structural, plumbing, and electrical to avert possible installation conflicts. Arrange work accordingly, providing such fittings, traps, valves and accessories as may be required to meet such conditions.
- C. Deviations from the drawings, with the exception of minor changes in routing and other such incidental changes that do not affect the functioning or serviceability of the systems, shall not be made without the written approval of the Architect/Engineer.
- D. The architectural and structural drawings take precedence in all matters pertaining to the building structure, mechanical drawings in all matters pertaining to mechanical trades and electrical drawings in all matters pertaining to electrical trades. Where there are conflicts or differences between the drawings for the various trades, report such conflicts or differences to the Architect/Engineer for resolution.
- E. Do not scale drawings for measurements.
- F. Field verifications of actual existing conditions are required by the contractor since actual locations, distances, and levels will be governed by actual field conditions. All measurements shall be verified at the site.
- G. If during field verification, the contractor identifies that there may require substantial changes from the original plans, the contractor shall notify the architect for agreement on necessary adjustment before the installation is started
- H. Discrepancies shown between plans, or between plans and actual field conditions, or between plans and specifications shall promptly be brought to the attention of the Architect/Engineer for a decision.
- I. Drawings and specifications are intended to cover the completed installation of systems to function as described. The omission of the expressed reference to any item of labor and material necessary to comply with practice codes, ordinances, etc., shall not relieve the contractor from providing such additional labor and material at no cost to Owner.

1.9 SUBMITTALS

- A. Shop drawings and samples shall be submitted in compliance with the Conditions of the Contract and Division 1 General Requirements.

- B. Contractor shall provide submittals where items are referred to by symbolic designation on the drawings. All submittals shall bear the same designation (HVAC equipment, piping equipment, etc.). Refer to other sections of the mechanical specifications for additional requirements.
- C. Contractor shall obtain Engineer's approval on all the work before any equipment is purchased, or any work installed. Contractor shall also secure approval of the Governmental Authorities having jurisdiction on all equipment and on the layout of the complete system.
- D. The Engineer's review and approval of shop drawings is a gratuitous assistance and in no way does it relieve the Contractor from responsibility for errors or omissions which may exist on the shop drawings. Where such errors or omissions are discovered later, they must be made good by the Contractor, without any additional cost to the Owner, irrespective of any approval by the Engineer.
 - 1. The Contractor shall incorporate with his shop drawings, a letter indicating all deviations from the plans and/or specifications. If in the opinion of the Architect, the deviations are not equal, the Contractor will be required to furnish the item as specified and as indicated on the drawings.
 - 2. Record documents shall be submitted in compliance with the requirements of the Specifications.
- E. Engineer WILL NOT REVIEW:
 - 1. Submittals not specified.
 - 2. Submittals not reviewed by Contractor, including Contractor stamp with signature comments.
 - 3. Submittals made after work is delivered to site and/or installed.
 - 4. Submittal resubmissions unless resubmission is required by Architect/Engineer.
- F. Installation of any item that requires submittal approval by the engineer shall be installed at the contractors risk. The contractor, at his cost, shall remove all work installed prior to approval of the submittal.
- G. The engineer will not be responsible for errors in quantities, or dimensions required to fit the job condition, details of fabrication to insure proper assembly at the job, or for errors resulting from mistakes in submittals.

1.10 RECORD DRAWINGS

- A. Refer to Division 01 - General Requirements for procedures. All literature shall be furnished in accordance with requirements listed in Division 01.
- B. Contractor shall provide the following record drawings as part of the Project closeout document process:

1. Contract Documents, specifications and submittals, indicating "As-Built" conditions and actual products selected for use.
 2. Product and Maintenance manuals for all equipment listed within this specification manual and in Contract Documents. Provide with parts lists as applicable.
- C. Record drawings shall be maintained by the contractor up to date as the project progresses.
- D. Recording all deviations from the contract documents, indicate exact locations of all buried services both inside and outside of the building; include concealed piping and equipment in the entire contract. Final record drawings shall reflect the as-built conditions.
- 1.11 QUALITY ASSURANCE
- A. Other referenced standards:
1. Comply with referenced standards, guidelines, data sheets from various associations, including NFPA, ANSI, ASTM, ASME, ASHRAE.

PART 2 PRODUCTS

2.1 DIELECTRIC UNIONS

- A. Dielectric unions or nipples shall be used to connect dissimilar metals (such as steel and copper) to prevent electrolytic action.

2.2 BUILDING ATTACHMENTS FOR MECHANICAL WORK SUPPORTS

- A. General Requirements:
1. Provide building attachments required for supporting mechanical work, suitably selected and installed for the loads applied with a minimum additional safety factor of 3.
 2. Where specified attachments are not suitable for conditions, submit to Engineer for approval, proposal for alternate building attachments.
 3. If specially designed building attachments are required, retain the services of a licenced structural engineer to design such building attachments.
 4. Approved Manufacturers: Grinnell, or equivalent products by Michigan Hanger and B-Line.
 5. Provide supplemental trapeze supports where necessary. Design trapeze to support all trades. Coordinate loads, and supports with all trades. Size trapeze for maximum deflection of 1/64 of the span.
- B. Attachments to Structural Steel:
1. Support mechanical work from building structural steel where possible and approved. No welding or bolting to structural steel is permitted unless authorized by Architect. C-

clamps are not permitted.

- a. Center beam clamp - for loads over 120 lb.: Malleable center hung Grinnell Fig. 228.
- b. Side beam clamp with retaining clips - for loads up to 120 lb.

C. Cast in Place Concrete Inserts:

1. Provide inserts selected for applied load of present load plus 100% for future, and coordinated with concrete work. Except as detailed on drawings, inserts shall be Unistrut or Grinnell. Plan, lay out and coordinate setting of inserts prior to concrete pour. Use Grinnell Fig. 285 lightweight concrete insert for loads up to 400# or Grinnell Fig. 281 Wedge Type concrete insert for loads up to 1200#

D. Drilled Insert Anchors:

1. Where mechanical work cannot be supported from structural steel, or cast in place concrete inserts, provide drilled concrete insert anchors. Submit for approval, project specific installation drawings for all loads over 100 lbs. Install inserts in web of beam if possible and approved. Insert depth shall not exceed two thirds the thickness of the concrete. Where existing concrete appears to be deteriorating, or where applied load at insert exceeds 1000 lbs., conduct test of concrete to determine derated capacity of insert. Anchors may be adhesive or expansion type up to 1000 lbs., and shall be adhesive type for loads over 1000 lbs.

PART 3 EXECUTION

3.1 GENERAL

- A. Existing piping and ductwork: when encountered during the course of work, protect, brace and support existing piping and ductwork where required for proper execution of the work.
- B. Interruption of existing active piping and ductwork: when the course of work makes shut-down of services unavoidable, the mechanical contractor shall schedule the shut-down at such time as approved by the owners representative, which will cause least interference with established operating routine.
- C. Arrange work accordingly, providing such fittings as duct transitions traps, valves and accessories necessary to complete all construction in an orderly fashion.
- D. Install all equipment in strict accordance all directions and recommendations furnished by the manufacturer.

3.2 INTERPRETATION OF CONTRACT DOCUMENTS

- A. Should there be discrepancy or a question of intent, refer matter to Architect/Engineer for decision before ordering any equipment or materials or before starting any related work.

- B. Drawings and Specifications are to be taken together. Work specified and not shown or work shown and not specified shall be performed or furnished as though mentioned in both Specifications and Drawings. If there is discrepancy between Drawings and Specifications as to quantity or quality to be provided, the greater quantity or better quality shall be provided.
- C. Minor items and accessories or devices reasonably inferable as necessary to complete and proper installation and operation of any system shall be provided by Contractor for such system whether or not specifically called for by Specifications or Drawings.
- D. Architect/Engineer may change location of any equipment 5' and any piping, ductwork, conduit, etc. 10' in any direction without extra charge, provided such changes are made before installation.
- E. Locations of items not definitely fixed by dimensions are approximate only and exact locations necessary to secure the best conditions and results shall be determined at the site and shall be subject to review and approval by Architect/Engineer.
- F. Follow drawings in laying out work, check drawings of other trades to verify spaces in which work will be installed, and maintain maximum headroom and space conditions at all points.
 - 1. Where headroom or space conditions appear inadequate, notify Architect or Owner's field representative before proceeding with installation.
 - 2. Pipe/duct rerouting and size changes shall be made at no additional cost to the Owner.
- G. Furnish advance information on locations and sizes of frames, boxes, sleeves and openings needed for the work, and also furnish information and shop drawings necessary to permit installation of other work without delay.
- H. Where there is evidence that parts of the Work specified in Divisions 21, 22, and 23 will interfere with other work, assist in working out space conditions to make satisfactory adjustments, revise and submit coordinated shop drawings.
- I. After review and without additional cost to the Owner, make minor modifications in the work as required by structural interferences, by interferences with work of other sections or for proper execution of the work.
- J. Work installed before coordinating with other work so as to cause interference with other work shall be changed and corrected without additional cost to the Owner.
- K. Drawings are diagrammatic in nature and are a graphic representation of requirements and shall be followed as closely as actual building construction will permit. All changes from the plans necessary to make the work conform to the building as constructed and to fit the work of other trades or to conform to rules of the Governmental Authorities having jurisdiction, NFPA, OSHA and the Owner's Insurance Underwriters, shall be made by the Contractor without extra cost to the Owner.

- L. The layout of the piping, ductwork, equipment, etc., as shown on the drawings shall be checked and exact locations shall be determined by the dimensions of the equipment approved and the Contractor shall obtain approval for the revised layout before the apparatus is installed. The Contractor shall field measure or consult existing record Architectural and Structural Drawings if available for all dimensions, locations of partitions, locations and sizes of structural supports, foundations, etc.
- M. Omission in the Drawings and/or Specifications of any items necessary for the proper completion or operation of the work outlined in this specification shall not relieve the Contractor from furnishing same without additional cost to the Owner.
- N. The Equipment Shop Drawings should be furnished to the installing Contractor by the purchasing Contractor before roughing in. Contractor shall not install any piping or ductwork for said equipment until he has received approved shop drawings for same.

3.3 ALTERATIONS IN PRESENT BUILDING AND SYSTEMS

- A. Contractor shall take particular note of the revisions and alterations to the existing systems, facilities and equipment due to the new construction as indicated on the Drawings and/or in Specification. Contractor shall remove, reroute or alter all services, ductwork, etc., as required or as indicated on the drawings.
- B. The Contractor shall maintain all services in the existing building. In case, where new service connections are to be made to existing services and service interruptions can in no way be avoided, the service interruptions shall be with the minimum of inconvenience to the Owner and the work shall be done at such time of any day, Saturday and Sunday included, and only as directed by the Owner or the Architect.

3.4 ACCESSIBILITY

- A. Do not locate valves, traps, controls, unions, dampers, etc. in any system at a location that will be inaccessible after construction is completed. Maintain accessibility for all components in mechanical, electrical, and plumbing systems.

3.5 CUTTING, PATCHING AND DAMAGE TO OTHER WORK

- A. Refer to Division 01 - General Requirements and Division 02 - Existing Conditions.
- B. All cutting required shall be done by the contractor whose work is involved, without extra cost the owner. All patching and restoration including the furnishing and installation of access panels in ceiling, walls; etc. Within the building lines shall be done by the respective, responsible contractor. No cutting of structural steel, concrete, or wood shall be done without prior approval and explicit directions of the architect patched by the respective, responsible contractor.
- C. The contractor, under whose jurisdiction the work may fall, shall provide labor, material, and tools required to cut, repair, protect, cap, or relocate existing pipes, conduits, or utilities

interfering with or uncovered during work, per regulations of the authorities having jurisdiction.

3.6 MATERIAL AND EQUIPMENT

- A. All material and equipment shall be new and of the best quality used for the purpose in good commercial practice, and shall be the standard product of reputable manufacturers. The material and equipment must meet approval of state and local codes in the area it is being used. Roof decks shall not be used to support piping, conduit, equipment, devices, etc.

3.7 CONTROL WIRING

- A. All control wiring for mechanical equipment, including motor starters, shall be 120 volt maximum and wired with one side of the coil grounded and the operating contacts in the north side of the circuit. All control wiring shall be installed in conduit.

3.8 CLEANING, FLUSHING, AND INSPECTING

- A. Refer to Division 01 - General Requirements; all mechanical equipment and components shall be cleaned as frequently as necessary through the construction process and again prior to project completion.
- B. Clean exterior surfaces of installed HVAC systems of superfluous materials and prepare for application of specified coatings (if any). Inspect each run of each system for completion of joints, supports and accessory items.
- C. Inspect pressure piping in accordance with procedures of ASME B31.

3.9 DELIVERY, STORAGE AND HANDLING OF EQUIPMENT AND MATERIALS

- A. Refer to Division 01 - General Requirements; All equipment and materials shall be delivered, stored and secured per manufacturer's recommendations.
- B. On-site storage shall be coordinated with Construction Manager and be performed in a manner as to avoid damage, deterioration and loss.
- C. Contractor shall provide temporary protection for installed equipment prior to project completion.
- D. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
- E. All equipment shall be inspected prior to installation to assure that equipment is free from defect and damage.
- F. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.
- G. Protect dampers, grilles, louvers from damage to operating linkages and blades.

3.10 PIPING TESTS

- A. Prepare hydronic piping according to ASME B31.9 and as follows:
 - 1. Leave joints, including welds, uninsulated and exposed for examination during test.
- B. Provide temporary restraints for expansion joints that cannot sustain reactions due to test pressure. If temporary restraints are impractical, isolate expansion joints from testing.
 - 1. Flush hydronic piping systems with clean water; then remove and clean or replace strainer screens.
 - 2. Isolate equipment from piping. If a valve is used to isolate equipment, its closure shall be capable of sealing against test pressure without damage to valve. Install blinds in flanged joints to isolate equipment.
 - 3. Install safety valve, set at a pressure no more than one-third higher than test pressure, to protect against damage by expanding liquid or other source of overpressure during test.
- C. Perform the following tests on hydronic piping:
 - 1. Use ambient temperature water as a testing medium unless there is risk of damage due to freezing. Another liquid that is safe for workers and compatible with piping may be used.
 - 2. While filling system, use vents installed at high points of system to release air. Use drains installed at low points for complete draining of test liquid.
 - 3. Isolate expansion tanks and determine that hydronic system is full of water.
 - 4. Subject piping system to hydrostatic test pressure that is not less than 1.5 times the system's working pressure. Test pressure shall not exceed maximum pressure for any vessel, pump, valve, or other component in system under test. Verify that stress due to pressure at bottom of vertical runs does not exceed 90 percent of specified minimum yield strength or 1.7 times the "SE" value in Appendix A in ASME B31.9, "Building Services Piping."
 - 5. After hydrostatic test pressure has been applied for at least 4 hours, examine piping, joints, and connections for leakage. Eliminate leaks by tightening, repairing, or replacing components, and repeat hydrostatic test until there are no leaks.
 - 6. Prepare written report of testing.
- D. Perform the following before operating the system:
 - 1. Open manual valves fully.
 - 2. Inspect pumps for proper rotation. Set makeup pressure-reducing valves for required system pressure.

3. Inspect air vents at high points of system and determine if all are installed and operating freely (automatic type), or bleed air completely (manual type).
4. Set temperature controls so all coils are calling for full flow.
5. Verify lubrication of motors and bearings.

END OF SECTION 230005

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SECTION 230505 - SELECTIVE DEMOLITION FOR HVAC

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Demolition and extension of existing mechanical work.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements.
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements, cutting and patching requirements, repairs.

1.3 SUMMARY

- A. The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, and services to completely execute the system of minor electrical demolition as described in this specification.
- B. The demolition documents plans and specification have been prepared from existing non-as built documents and cursory non-invasive field investigation.
- C. It is the contractors obligation to become familiar with the extent of demolition and the existing condition before submitting their bid.
- D. During demolition if the contractor discovers unforeseen significant non-code compliance conditions of the existing installation they shall notify the Architect and Engineer immediately in writing.
- E. The contractor shall become familiar with the drawings and scope of work of other trades as the work scope of those trades relates to mechanical equipment and connection requirements.
- F. During demolition the contractor shall record on site as-builts all hydronic system piping capped branches, capped supply air, return air and exhaust ducts for reuse in renovated project space.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Materials and equipment for patching and extending work: As specified in individual sections.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that piping, ductwork, equipment, accessories, controls and control wiring/tubing to be demolished serve only equipment and facilities within the demolition areas.
- B. Demolition drawings are based on casual field observation and existing record documents.
- C. Report discrepancies between drawings and field conditions to Owner and Engineer before disturbing existing installation.
- D. Beginning of demolition means installer accepts existing conditions.

3.2 PREPARATION

- A. Identify locations for capping piping, ductwork and controls before any demolition work commences.
- B. Confirm isolation valve locations for hydronic and gas piping. Repair leaking isolation valves or replace inoperable valves before commencing piping demolition.
- C. Cap and seal air-tight supply, return and exhaust air ductwork at shaft walls before commencing sheet metal demolition.
- D. Identify existing controls wiring and/or tubing that serves equipment before any demolition work commences.

3.3 DEMOLITION AND EXTENSION OF EXISTING MECHANICAL WORK

- A. Remove, relocate, and extend existing mechanical piping, sheet metal, and controls work to accommodate new construction.
- B. Contractor shall ensure all modified systems are functional and in working order.
- C. Pneumatic tubing for demolished equipment shall be removed back to mains and mains capped. Where existing pneumatic control systems are partially demolished or modified, the contractor shall take extra care to ensure that portions of the existing system intended to remain are left in proper working order.

3.4 CLEANING AND REPAIR

- A. Refer to Division 01 - General Requirements for procedures.
- B. Clean and repair existing materials, piping, sheet metal, diffusers, accessories and equipment that remain or that are to be reused.

END OF SECTION 230505

SECTION 230719 - HVAC PIPING INSULATION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Piping insulation.
- B. Jacketing and accessories.

1.2 RELATED REQUIREMENTS

- A. Section 232113 - HVAC Piping.

1.3 REFERENCE STANDARDS

- A. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2019, with Editorial Revision (2023).
- B. ASTM C547 - Standard Specification for Mineral Fiber Pipe Insulation; 2022a.
- C. ASTM C795 - Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel; 2008 (Reapproved 2023).
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- E. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.
- F. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

1.4 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Accept materials on site, labeled with manufacturer's identification, product density, and thickness.

1.6 FIELD CONDITIONS

- A. Maintain ambient conditions required by manufacturers of each product.

- B. Maintain temperature before, during, and after installation for minimum of 24 hours.

PART 2 PRODUCTS

2.1 REGULATORY REQUIREMENTS

- A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84 or UL 723.

2.2 GLASS FIBER, RIGID / SEMI-RIGID

- A. Manufacturers:

1. CertainTeed Corporation: www.certainteed.com/#sle.
2. Johns Manville Corporation: www.jm.com/#sle.
3. Knauf Insulation: www.knaufinsulation.com/#sle.
4. Manson Insulation, a company of Knauf Insulation: www.imanson.com/#sle.
5. Owens Corning Corporation: www.ocbuildingspec.com/#sle.
6. Substitutions: See Section 016000 - Product Requirements.

- B. Insulation: ASTM C547 and ASTM C795; semi-rigid, noncombustible.

1. K (Ksi) Value: ASTM C177, 0.24 at 75 degrees F (0.035 at 24 degrees C).
2. Maximum Service Temperature: 650 degrees F (343 degrees C).
3. Maximum Moisture Absorption: 0.2 percent by volume.

- C. Factory Applied Vapor Barrier Jacket: All Service Jacket composed of aluminum foil reinforced with glass scrim bonded to kraft paper interleaving with an outer film leaving no paper exposed; complying with ASTM C 1136 Type I, II, III, IV and VII; moisture vapor transmission when tested in accordance with ASTM E96/E96M of 0.02 perm-inches (0.029 ng/(Pa s m)).

- D. Vapor Barrier Lap Adhesive: Compatible with insulation.

2.3 JACKETING AND ACCESSORIES

- A. PVC Plastic.

1. Jacket: One piece molded type fitting covers and sheet material, off-white color.
 - a. Minimum Service Temperature: 0 degrees F (minus 18 degrees C).
 - b. Maximum Service Temperature: 150 degrees F (66 degrees C).

- c. Moisture Vapor Permeability: 0.002 perm inch (0.0029 ng/(Pa s m)), maximum, when tested in accordance with ASTM E96/E96M.
- d. Thickness: 10 mil, 0.010 inch (0.25 mm).
- e. Connections: Brush on welding adhesive.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Test piping for design pressure, liquid tightness, and continuity prior to applying insulation materials.
- B. Verify that surfaces are clean and dry, with foreign material removed.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install in accordance with NAIMA National Insulation Standards.
- C. Exposed Piping: Locate insulation and cover seams in least visible locations.
- D. For hot piping conveying fluids over 140 degrees F (60 degrees C), insulate flanges and unions at equipment.
- E. Glass Fiber Insulated Pipes Conveying Fluids Above Ambient Temperature:
 - 1. Provide standard jackets, with vapor barrier, factory-applied. Secure with self-sealing longitudinal laps and butt strips with pressure-sensitive adhesive. Secure with outward clinch expanding staples.
 - 2. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with PVC fitting covers.
- F. Inserts and Shields:
 - 1. Application: Piping 1-1/2 inches (40 mm) diameter or larger.
 - 2. Shields: Galvanized steel between pipe hangers or pipe hanger rolls and inserts.
 - 3. Insert location: Between support shield and piping and under the finish jacket.
 - 4. Insert Configuration: Minimum 6 inches (150 mm) long, of same thickness and contour as adjoining insulation; may be factory fabricated.
 - 5. Insert Material: Hydrous calcium silicate insulation or other heavy density insulating material suitable for the planned temperature range.

3.3 SCHEDULE

A. Heating Systems:

1. Heating Water Supply and Return:

a. Pipe Size Range: 3/4" to 1-1/2": 1-1/2"

b. Pipe Size Range: 2" to 6": 2"

END OF SECTION 230719

SECTION 232113 - HVAC PIPING

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Hydronic system requirements.
- B. Heating water piping, above grade.
- C. Pipe hangers and supports.
- D. Unions, flanges, mechanical couplings, and dielectric connections.

1.2 RELATED REQUIREMENTS

- A. Section 230719 - HVAC Piping Insulation.

1.3 REFERENCE STANDARDS

- A. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings; 2021.
- B. ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings; 2021.
- C. ASME B31.9 - Building Services Piping; 2020.
- D. ASTM B32 - Standard Specification for Solder Metal; 2020.
- E. ASTM B88 - Standard Specification for Seamless Copper Water Tube; 2022.
- F. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric); 2020.
- G. AWS A5.8M/A5.8 - Specification for Filler Metals for Brazing and Braze Welding; 2019.
- H. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation; 2018, with Amendment (2019).

1.4 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data:
 - 1. Include data on pipe materials, pipe fittings, valves, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

- B. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

PART 2 PRODUCTS

2.1 HYDRONIC SYSTEM REQUIREMENTS

- A. Comply with ASME B31.9 and applicable federal, state, and local regulations.
- B. Piping: Provide piping, fittings, hangers, and supports as required, as indicated, and as follows:
 - 1. Where more than one piping system material is specified, provide joining fittings that are compatible with piping materials and ensure that the integrity of the system is not jeopardized.
 - 2. Use non-conducting dielectric connections whenever jointing dissimilar metals.
 - 3. Provide pipe hangers and supports in accordance with ASME B31.9 or MSS SP-58 unless indicated otherwise.
- C. Pipe-to-Valve and Pipe-to-Equipment Connections: Use flanges or unions to allow disconnection of components for servicing; do not use direct welded, soldered, or threaded connections.

2.2 HEATING WATER PIPING, ABOVE GRADE

- A. Copper Tube: ASTM B88 (ASTM B88M), Type K (A) or Type L (B), drawn, using one of the following joint types:
 - 1. Solder Joints: ASME B16.18 cast brass/bronze or ASME B16.22 solder wrought copper fittings.
 - a. Solder: ASTM B32 lead-free solder, HB alloy (95-5 tin-antimony) or tin and silver.
 - b. Braze: AWS A5.8M/A5.8 BCuP copper/silver alloy.

2.3 PIPE HANGERS AND SUPPORTS

- A. Provide hangers and supports that comply with MSS SP-58.
 - 1. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.

2.4 UNIONS, FLANGES, MECHANICAL COUPLINGS, AND DIELECTRIC CONNECTIONS

- A. Unions for Pipe of 2 Inches (50 mm, DN) and Less:
 - 1. Copper Pipe: Bronze, soldered joints.

PART 3 EXECUTION

3.1 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and dirt on inside and outside before assembly.
- C. Prepare piping connections to equipment using jointing system specified.
- D. Keep open ends of pipe free from scale and dirt. Protect open ends with temporary plugs or caps.
- E. After completion, fill, clean, and treat systems. See Section 232500 for additional requirements.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- C. Route piping in orderly manner, parallel to building structure, and maintain gradient.
- D. Install piping to conserve building space and to avoid interference with use of space.
- E. Group piping whenever practical at common elevations.
- F. Slope piping and arrange to drain at low points.
- G. Pipe Hangers and Supports:
 - 1. Install in accordance with ASME B31.9 or MSS SP-58.
 - 2. Provide copper plated hangers and supports for copper piping.
- H. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings. See Section 230719.
- I. Use eccentric reducers to maintain top of pipe level.
- J. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc-rich primer to welds.

3.3 SCHEDULES

- A. Heating water piping, above grade:
 - 1. Pipe sizes 3/4" - 2": Copper, soldered/brazed joints.

3.4 PIPING TESTS

- A. See Section 230005 - Basic HVAC Requirements.

END OF SECTION 232113

SECTION 26 0005
BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. This section applies to all sections of Division 26 and Division 28.
- B. Drawings and general provisions of the contract, including Division 00 and Division 01 specification sections, apply to work of this section.
- C. Provide all items, articles, materials, operations or methods listed, mentioned or scheduled on drawings and/or herein, including all labor, materials, equipment and incidentals necessary and required for their completion.
- D. The items in this section are supplementary to the requirements set forth in other portions of the specifications as indicated under Item "A" above.

1.2 DRAWINGS

- A. The drawings show the location and general arrangement of equipment, electrical systems and related items. They shall be followed as closely as elements of the construction will permit.
- B. Examine the drawings of other trades and verify the conditions governing the work on the job site. Arrange work accordingly, providing such fittings, conduit, junction boxes and accessories as may be required to meet such conditions.
- C. Deviations from the drawings, with the exception of minor changes in routing and other such incidental changes that do not affect the functioning or serviceability of the systems, shall not be made without the written approval of the Architect/Engineer.
- D. The architectural and structural drawings take precedence in all matters pertaining to the building structure, mechanical drawings in all matters pertaining to mechanical trades and electrical drawings in all matters pertaining to electrical trades. Where there are conflicts or differences between the drawings for the various trades, report such conflicts or differences to the Architect/Engineer for resolution.

1.3 INSPECTION OF SITE

- A. Visit the site, examine and verify the conditions under which the work must be conducted before submitting proposal.
- B. The submitting of a proposal implies that the contractor has visited the site and understands the conditions under which the work must be conducted.

1.4 TEMPORARY FACILITIES

- A. Provide and remove upon completion of the project, in accordance with the general conditions, a complete temporary electrical and telephone service during construction.

1.5 ALTERNATES AND SUBSTITUTIONS

- A. Refer to Division 01 - General Requirements for procedures.

1.6 GUARANTEE

- A. Contractor guarantees that the installation is free from defects and agrees to replace or repair, any part of this installation which becomes defective within a period of one year following final acceptance, unless noted otherwise, provided that such failure is due to defects in the equipment, material or installation or to follow the specifications and drawings. File with the Owner any and all guarantees from the equipment manufacturers.

1.7 CODES, PERMITS AND FEES

- A. Unless otherwise indicated, all required permits, licenses, inspections, approvals and fees for electrical work shall be secured and paid for by the contractor. All work shall conform to all applicable codes, rules and regulations. Applicable publications listed in all sections of Division 26 shall be the latest issue, unless otherwise noted.
- B. Rules of local utility companies shall be complied with. Check with the utility company supplying service to the installation and determine all devices including, but not limited to, all current and potential transformers, meter boxes, C.T. cabinets and meters which will be required and include the cost of all such items in proposal.
- C. All work shall be executed in accordance with the rules and regulations set forth in local and state codes. Prepare any detailed drawings or diagrams which may be required by the governing authorities. Where the drawings and/or specifications indicate materials or construction in excess of code requirements, the drawings and/or specifications shall govern.

1.8 STANDARDS OF MATERIAL AND WORKMANSHIP:

- A. All materials shall be new, unless noted otherwise. The electrical and physical properties of all materials, and the design, performance characteristics, and methods of construction of all items of equipment, shall be in accordance with the latest issue of the various, applicable standard specifications of the following recognized authorities:
 - 1. A.N.S.I. - American National Standards Institute
 - 2. A.S.T.M. - American Society for Testing Materials
 - 3. I.C.E.A. - Insulated Cable Engineers Association
 - 4. I.E.E.E. - Institute of Electrical and Electronics Engineers
 - 5. N.E.C. - National Electrical Code (NFPA 70)

6. N.E.C.A. - National Electrical Contractors Association
7. N.E.M.A. - National Electrical Manufacturer's Association
8. N.F.P.A. - National Fire Protection Association
9. U.L. - Underwriters Laboratories, Inc.

- B. Perform all work in a first class and workmanlike manner, in accordance with the latest accepted standards and practices for the Trades involved.
- C. All equipment of the same or similar systems shall be by the same manufacturer.

1.9 RECORD DRAWINGS

- A. Refer to Division 01 - General Requirements for procedures. All literature shall be furnished in accordance with requirements listed in Division 01.
- B. Contractor shall provide the following record drawings as part of the Project closeout document process:
 1. Contract Documents, specifications and submittals, indicating "As-Built" conditions and actual products selected for use.
 2. Product and Maintenance manuals for all equipment listed within this specification manual and in Contract Documents. Provide with parts lists as applicable.

1.10 SUBMITTALS

- A. Refer to Division 01 - General Requirements for procedures.
- B. Contractor shall provide submittals where items are referred to by symbolic designation on the drawings. All submittals shall bear the same designation (light fixtures, wiring devices, etc.). Refer to other sections of the electrical specifications for additional requirements.
- C. Engineer WILL NOT REVIEW:
 1. Submittals not specified.
 2. Submittals which do not indicate optional equipment being provided.
 3. Submittals not reviewed by Contractor; including Contractor stamp with signature comments.
 4. Submittals made after work is delivered to site and/or installed.
 5. Submittal resubmissions unless resubmission is required by Architect/Engineer.

1.11 MANUFACTURERS LISTED

- A. The listing of specific manufacturers does not imply acceptance of their products that do not meet the specified ratings, features and functions. Manufacturers listed are not relieved from meeting these specifications in their entirety.
- B. Products in compliance with the specification and manufactured by others not named will be considered only if pre-approved by the Engineer five (5) days prior to bid date.

1.12 USE OF EQUIPMENT

- A. The use of any equipment, or any part thereof for purposes other than testing even with the Owner's consent, shall not be construed to be an acceptance of the work on the part of the Owner, nor be construed to obligate the Owner in any way to accept improper work or defective materials.
- B. Do not use Owner's light fixtures for temporary lighting except as allowed and directed by the Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 INSTALLATION OF EQUIPMENT

- A. Install all equipment in strict accordance with all directions and recommendations furnished by the manufacturer. Where such directions are in conflict with the drawings and specifications, report such conflicts to the Architect/Engineer for resolution.
- B. Equipment location shall be as close as practical to locations shown on the drawings.
- C. Working clearances shall not be less than specified in NFPA 70 (National Electric Code).

3.2 COORDINATION

- A. Install work to avoid interference with work of other trades including, but not limited to, architectural and mechanical trades. Remove and relocate any work that causes an interference at Contractor's expense. Disputes regarding the cause of an interference will be resolved by the Construction Manager or Architect/Engineer.

3.3 CUTTING, PATCHING AND DAMAGE TO OTHER WORK

- A. Refer to Division 01 - General Requirements and Division 02 - Existing Conditions.
- B. All cutting, patching and repair work shall be performed by the contractor through approved, qualified subcontractors. Contractor shall include full cost of same in bid.

3.4 EXCAVATION AND BACKFILLING

- A. Provide all excavation, trenching, tunneling, dewatering and backfilling required for the electrical work. Coordinate the work with other excavating and backfilling in the same area.

- B. Where conduit is installed less than 30" below the surface of pavement, provide concrete encasement, 4" minimum coverage, all around or as shown on the electrical drawings.
- C. Backfill all excavations inside building, under drives and parking areas with well-tamped granular material. Backfill all excavations under wall footings with lean mix concrete up to underside of footings and extend concrete within excavation a minimum of four (4) feet each side of footing. Granular backfill shall be placed in layers not more than 8 inches in thickness, 95 percent compaction throughout with approved compaction equipment. Tamp, roll as required. Excavated material shall not be used.
- D. Backfill outside building with granular material to a height 12 inches over top of pipe compacted to 95 percent compaction as specified above. Backfill remainder of excavation with unfrozen, excavated material in such a way to prevent settling. Tamp, roll as required.

3.5 EQUIPMENT FOUNDATION AND SUPPORTS

- A. Shall be as required or as shown on plans or specified.
- B. Provide concrete house keeping bases 4" above finished floor, with leveling channels, where noted, for floor-mounted equipment. Coordinate requirements with Division 03 - Concrete.
- C. For equipment suspended from ceilings or walls, furnish and install all inserts, rods, structural steel frames, brackets and platforms required.

3.6 EQUIPMENT CONNECTIONS

- A. Make connections to equipment, motors, lighting fixtures, and other items included in the work in accordance with the approved shop drawings and rough-in measurements furnished by the manufacturers of the particular equipment furnished. All additional connections not shown on the drawings, but called out by the equipment manufacturer's shop drawings shall be provided.

3.7 ACCESS DOORS AND PANELS

- A. Refer to Division 08 - Openings; Provide access doors in locations as required per N.E.C. Coordinate locations with architectural trades.

3.8 CLEANING

- A. Refer to Division 01 - General Requirements; All equipment shall be cleaned as frequently as necessary through the construction process and again prior to project completion.
- B. Final cleanup shall include, but not be limited to, washing of fixture lenses or louvers, switchboards, substations, motor control centers, panels, etc. Fixture reflectors and lenses or louvers shall be left with no water marks or cleaning streaks.

3.9 DELIVERY, STORAGE AND PROTECTION OF EQUIPMENT AND MATERIALS

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- A. Refer to Division 01 - General Requirements; All equipment and materials shall be delivered, stored and secured per manufacturer's recommendations.
- B. On-site storage shall be coordinated with Construction Manager and be performed in a manner as to avoid damage, deterioration and loss.

3.10 DRAWINGS AND MEASUREMENTS

- A. Electrical drawings are not intended to be scaled for rough-in measurements nor to serve as submittals. Field measurements necessary for ordering materials and fitting the installation to the building construction and arrangement shall be taken by the Contractor.

END OF SECTION

SECTION 26 0533.16
BOXES FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Outlet and device boxes up to 100 cubic inches, including those used as junction and pull boxes.
- B. Cabinets and enclosures, including junction and pull boxes larger than 100 cubic inches.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements.
- B. Division 03 - Concrete: Concrete.
- C. Division 07 - Thermal and Moisture Protection: Firestopping.
- D. Division 08 - Openings: Access Doors.
- E. Section 08 3100 - Access Doors and Panels: Panels for maintaining access to concealed boxes.
- F. Section 26 0005 - Basic Electrical Requirements.
- G. Section 26 0526 - Grounding and Bonding for Electrical Systems.
- H. Section 26 0529 - Hangers and Supports for Electrical Systems.
- I. Section 26 0533.13 - Conduit for Electrical Systems:
 - 1. Conduit bodies and other fittings.
 - 2. Additional requirements for locating boxes to limit conduit length and/or number of bends between pulling points.
- J. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- K. Section 26 2726 - Wiring Devices:
 - 1. Wall plates.
- L. Section 26 2813 - Fuses: Spare fuse cabinets.

1.3 REFERENCE STANDARDS

- A. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- B. NECA 130 - Standard for Installing and Maintaining Wiring Devices; 2016.

- C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.
- D. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.
- E. NEMA OS 1 - Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports; 2013 (Reaffirmed 2020).
- F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- G. SCTE 77 - Specifications for Underground Enclosure Integrity; 2017.
- H. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations; Current Edition, Including All Revisions.
- I. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations; Current Edition, Including All Revisions.
- J. UL 508A - Industrial Control Panels; Current Edition, Including All Revisions.
- K. UL 514A - Metallic Outlet Boxes; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate the work with other trades to avoid placement of ductwork, piping, equipment, or other potential obstructions within the dedicated equipment spaces and working clearances for electrical equipment required by NFPA 70.
 - 2. Coordinate arrangement of electrical equipment with the dimensions and clearance requirements of the actual equipment to be installed.
 - 3. Coordinate minimum sizes of boxes with the actual installed arrangement of conductors, clamps, support fittings, and devices, calculated according to NFPA 70.
 - 4. Coordinate minimum sizes of pull boxes with the actual installed arrangement of connected conduits, calculated according to NFPA 70.
 - 5. Coordinate the placement of boxes with millwork, furniture, devices, equipment, etc. installed under other sections or by others.
 - 6. Coordinate the work with other trades to preserve insulation integrity.
 - 7. Coordinate the work with other trades to provide walls suitable for installation of flush-mounted boxes where indicated.

8. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.5 SUBMITTALS

- A. Contractor shall provide submittals for equipment listed herein. Refer to Division 01 for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for cabinets and enclosures, boxes for hazardous (classified) locations, floor boxes, and underground boxes/enclosures.
 1. Underground Boxes/Enclosures: Include reports for load testing in accordance with SCTE 77 certified by a professional engineer or an independent testing agency upon request.
- C. Project Record Documents: Record actual locations for outlet and device boxes, pull boxes, cabinets and enclosures, floor boxes, and underground boxes/enclosures.
- D. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 1. See Section 01 6000 - Product Requirements, for additional provisions.
 2. Keys for Lockable Enclosures: Two of each different key.

PART 2 PRODUCTS

2.1 BOXES

- A. General Requirements:
 1. Do not use boxes and associated accessories for applications other than as permitted by NFPA 70 and product listing.
 2. Provide all boxes, fittings, supports, and accessories required for a complete raceway system and to accommodate devices and equipment to be installed.
 3. Provide products listed, classified, and labeled as suitable for the purpose intended.
 4. Where box size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
 5. Provide grounding terminals within boxes where equipment grounding conductors terminate.
- B. Outlet and Device Boxes Up to 100 cubic inches, Including Those Used as Junction and Pull Boxes:
 1. Use sheet-steel boxes for dry locations unless otherwise indicated or required.

2. Use cast iron boxes or cast aluminum boxes for damp or wet locations unless otherwise indicated or required; furnish with compatible weatherproof gasketed covers.
 3. Use suitable concrete type boxes where flush-mounted in concrete.
 4. Use suitable masonry type boxes where flush-mounted in masonry walls.
 5. Use raised covers suitable for the type of wall construction and device configuration where required.
 6. Use shallow boxes where required by the type of wall construction.
 7. Do not use "through-wall" boxes designed for access from both sides of wall.
 8. Sheet-Steel Boxes: Comply with NEMA OS 1, and list and label as complying with UL 514A.
 9. Cast Metal Boxes: Comply with NEMA FB 1, and list and label as complying with UL 514A; furnish with threaded hubs.
 10. Boxes for Supporting Luminaires and Ceiling Fans: Listed as suitable for the type and weight of load to be supported; furnished with fixture stud to accommodate mounting of luminaire where required.
 11. Boxes for Ganged Devices: Use multigang boxes of single-piece construction. Do not use field-connected gangable boxes unless specifically indicated or permitted.
 12. Wall Plates: Comply with Section 26 2726.
 13. Manufacturers:
 - a. Cooper Crouse-Hinds, a division of Eaton Corporation:
www.cooperindustries.com
 - b. Hubbell Incorporated; Bell Products: www.hubbell-rtb.com
 - c. Hubbell Incorporated; RACO Products: www.hubbell-rtb.com
 - d. O-Z/Gedney, a brand of Emerson Electric Co: www.emerson.com
 - e. Thomas & Betts Corporation: www.tnb.com
- C. Cabinets and Enclosures, Including Junction and Pull Boxes Larger Than 100 cubic inches:
1. Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E, or UL 508A.
 2. NEMA 250 Environment Type, Unless Otherwise Indicated:
 3. Junction and Pull Boxes Larger Than 100 cubic inches:

- a. Provide screw-cover or hinged-cover enclosures unless otherwise indicated.
 - b. Boxes 6 square feet and Larger: Provide sectionalized screw-cover or hinged-cover enclosures.
4. Cabinets and Hinged-Cover Enclosures, Other Than Junction and Pull Boxes:
- a. Provide lockable hinged covers, all locks keyed alike unless otherwise indicated.
 - b. Back Panels: Painted steel, removable.
 - c. Terminal Blocks: Provide voltage/current ratings and terminal quantity suitable for purpose indicated, with 25 percent spare terminal capacity.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that mounting surfaces are ready to receive boxes.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install boxes in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards where mounting heights are not indicated.
- C. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.
- D. Provide separate boxes for emergency power and normal power systems.
- E. Unless otherwise indicated, provide separate boxes for line voltage and low voltage systems.
- F. Flush-mount boxes in finished areas unless specifically indicated to be surface-mounted.
- G. Unless otherwise indicated, boxes may be surface-mounted where exposed conduits are indicated or permitted.
- H. Box Locations:
 - 1. Locate boxes to be accessible. Provide access panels in accordance with Division 08 as required where approved by the Architect.
 - 2. Unless dimensioned, box locations indicated are approximate.

3. Locate boxes as required for devices installed under other sections or by others.
 4. Locate boxes so that wall plates do not span different building finishes.
 5. Locate boxes so that wall plates do not cross masonry joints.
 6. Do not install flush-mounted boxes on opposite sides of walls back-to-back. Provide minimum 6 inches horizontal separation unless otherwise indicated.
 7. Fire Resistance Rated Walls: Install flush-mounted boxes such that the required fire resistance will not be reduced.
 - a. Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches separation where wall is constructed with individual noncommunicating stud cavities or protect both boxes with listed putty pads.
 8. Locate junction and pull boxes as indicated, as required to facilitate installation of conductors, and to limit conduit length and/or number of bends between pulling points in accordance with Section 26 0533.13.
- I. Box Supports:
1. Secure and support boxes in accordance with NFPA 70 and Section 26 0529 using suitable supports and methods approved by the authority having jurisdiction.
 2. Provide independent support from building structure except for cast metal boxes (other than boxes used for fixture support) supported by threaded conduit connections in accordance with NFPA 70. Do not provide support from piping, ductwork, or other systems.
- J. Install boxes plumb and level.
- K. Flush-Mounted Boxes:
1. Install boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that front edge of box or associated raised cover is not set back from finished surface more than 1/4 inch or does not project beyond finished surface.
 2. Install boxes in combustible materials such as wood so that front edge of box or associated raised cover is flush with finished surface.
 3. Repair rough openings around boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that there are no gaps or open spaces greater than 1/8 inch at the edge of the box.
- L. Install boxes as required to preserve insulation integrity.
- M. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.

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- N. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 8400.
- O. Close unused box openings.
- P. Install blank wall plates on junction boxes and on outlet boxes with no devices or equipment installed or designated for future use.
- Q. Provide grounding and bonding in accordance with Section 26 0526.

3.3 PROTECTION

- A. Immediately after installation, protect boxes from entry of moisture and foreign material until ready for installation of conductors.

END OF SECTION

SECTION 26 0533.13
CONDUIT FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Galvanized steel rigid metal conduit (RMC).
- B. Aluminum rigid metal conduit (RMC).
- C. Flexible metal conduit (FMC).
- D. Galvanized steel electrical metallic tubing (EMT).
- E. Aluminum electrical metallic tubing (EMT).
- F. Rigid polyvinyl chloride (PVC) conduit.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements.
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements, cutting and patching requirements, and repairs.
- C. Division 03 - Concrete: Concrete encasement of conduits.
- D. Division 07 - Thermal and Moisture Protection: Firestopping.
- E. Section 26 0005 - Basic Electrical Requirements
- F. Section 26 0519 - Low-Voltage Electrical Power Conductors and Cables.
- G. Section 26 0526 - Grounding and Bonding for Electrical Systems.
 - 1. Includes additional requirements for fittings for grounding and bonding.
- H. Section 26 0529 - Hangers and Supports for Electrical Systems.
- I. Section 26 0533.16 - Boxes for Electrical Systems.
- J. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- K. Section 28 4600 - Fire Detection and Alarm: Fire alarm wiring in conduit.
- L. Division 31 - Earthwork: Excavating, trenching and fill.

1.3 REFERENCE STANDARDS

- A. ANSI C80.1 - American National Standard for Electrical Rigid Steel Conduit (ERSC); 2020.
- B. ANSI C80.3 - American National Standard for Electrical Metallic Tubing -- Steel (EMT-S); 2020.
- C. ANSI C80.5 - American National Standard for Electrical Rigid Metal Conduit -- Aluminum (ERMC-A); 2020.
- D. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- E. NECA 101 - Standard for Installing Steel Conduits (Rigid, IMC, EMT); 2020.
- F. NECA 102 - Standard for Installing Aluminum Rigid Metal Conduit; 2004.
- G. NECA 111 - Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC); 2017.
- H. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable; 2014.
- I. NEMA RN 1 - Polyvinyl-Chloride (PVC) Externally Coated Galvanized Rigid Steel Metal Conduit and Intermediate Metal Conduit; 2018.
- J. NEMA TC 2 - Electrical Polyvinyl Chloride (PVC) Conduit; 2020.
- K. NEMA TC 3 - Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing; 2021.
- L. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- M. UL 1 - Flexible Metal Conduit; Current Edition, Including All Revisions.
- N. UL 6 - Electrical Rigid Metal Conduit-Steel; Current Edition, Including All Revisions.
- O. UL 6A - Electrical Rigid Metal Conduit-Aluminum, Red Brass, and Stainless Steel; Current Edition, Including All Revisions.
- P. UL 514B - Conduit, Tubing, and Cable Fittings; Current Edition, Including All Revisions.
- Q. UL 651 - Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings; Current Edition, Including All Revisions.
- R. UL 797 - Electrical Metallic Tubing-Steel; Current Edition, Including All Revisions.
- S. UL 797A - Electrical Metallic Tubing - Aluminum and Stainless Steel; Current Edition, Including All Revisions.
- T. UL 2419 - Outline of Investigation for Electrically Conductive Corrosion Resistant Compounds; Current Edition, Including All Revisions.

2.1 CONDUIT APPLICATIONS

- A. Do not use conduit and associated fittings for applications other than as permitted by NFPA 70, manufacturer's instructions, and product listing.
- B. Unless otherwise indicated and where not otherwise restricted, use conduit types indicated for specified applications. Where more than one listed application applies, comply with most restrictive requirements. Where conduit type for particular application is not specified, use galvanized steel rigid metal conduit.
- C. Underground:
 - 1. Under Slab on Grade: Use galvanized steel rigid metal conduit or rigid PVC conduit.
 - 2. Exterior, Direct-Buried: Use galvanized steel rigid metal conduit or rigid PVC conduit.
 - 3. Exterior, Embedded Within Concrete: Use galvanized steel rigid metal conduit or rigid PVC conduit.
 - 4. Where rigid polyvinyl chloride (PVC) conduit is provided, transition to galvanized steel rigid metal conduit (RMC), galvanized steel intermediate metal conduit (IMC), or schedule 80 rigid PVC conduit where emerging from underground.
 - 5. Where rigid polyvinyl (PVC) conduit larger than 2-inch (53 mm) trade size is provided, use galvanized steel rigid metal conduit (RMC) elbows, galvanized steel intermediate metal conduit (IMC) elbows, stainless steel intermediate metal conduit (IMC) elbows, PVC-coated galvanized steel rigid metal conduit (RMC) elbows, or concrete-encased PVC elbows for bends.
 - 6. Where galvanized steel rigid metal conduit (RMC) or galvanized steel intermediate metal conduit (IMC) is installed in direct contact with earth where soil has resistivity of less than 2000 ohm-centimeters or is characterized as severely corrosive based on soils report or local experience, use corrosion protection tape, factory-applied corrosion protection coating, or field-applied corrosion protection compound acceptable to authorities having jurisdiction to provide supplementary corrosion protection.
 - 7. Where galvanized steel electrical metallic tubing (EMT) is installed in direct contact with earth, use corrosion protection tape, factory-applied corrosion protection coating, or field-applied corrosion protection compound acceptable to authorities having jurisdiction to provide supplementary corrosion protection.
 - 8. Where aluminum rigid metal conduit (RMC) or aluminum electrical metallic tubing (EMT) is installed in direct contact with earth, use corrosion protection tape, factory-applied corrosion protection coating, or field-applied corrosion protection compound acceptable to authorities having jurisdiction to provide supplementary corrosion protection.

9. Where galvanized rigid metal conduit (RMC), galvanized steel intermediate metal conduit (IMC), or galvanized steel electrical metallic tubing (EMT) emerges from concrete into soil, use corrosion protection tape, factory-applied corrosion protection coating, or field-applied corrosion protection compound acceptable to authorities having jurisdiction to provide supplementary corrosion protection for minimum of 4 inches on either side of where conduit emerges.
- D. Embedded Within Concrete:
1. Within Slab on Grade (within structural slabs only where approved by Structural Engineer): Use galvanized steel rigid metal conduit or rigid PVC conduit.
 2. Within Slab Above Ground (within structural slabs only where approved by Structural Engineer): Use PVC-coated galvanized steel rigid metal conduit or rigid PVC conduit.
- E. Concealed Within Masonry Walls: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
- F. Concealed Within Hollow Stud Walls: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
- G. Concealed Above Accessible Ceilings: Use intermediate metal conduit (IMC) or electrical metallic tubing (EMT).
- H. Interior, Damp or Wet Locations: Use galvanized steel rigid metal conduit (RMC), galvanized steel intermediate metal conduit (IMC), or galvanized steel electrical metallic tubing (EMT).
- I. Exposed, Interior, Not Subject to Physical Damage: Use galvanized steel rigid metal conduit, aluminum rigid metal conduit, or electrical metallic tubing (EMT).
- J. Exposed, Interior, Subject to Physical Damage: Use stainless steel rigid metal conduit (RMC), aluminum rigid metal conduit (RMC), stainless steel intermediate metal conduit (IMC), stainless steel electrical metallic tubing (EMT), or schedule 80 rigid PVC conduit.
- K. Exposed, Interior, Subject to Severe Physical Damage: Use stainless steel rigid metal conduit (RMC), aluminum rigid metal conduit (RMC), or stainless steel intermediate metal conduit (IMC).
- L. Exposed, Exterior: Use PVC-coated galvanized steel rigid metal conduit or aluminum rigid metal conduit.
- M. Exposed, Exterior, Subject to Severe Physical Damage: Use stainless steel rigid metal conduit (RMC) or stainless steel intermediate metal conduit (IMC).
- N. Concealed, Exterior, Not Embedded in Concrete or in Contact With Earth: Use intermediate metal conduit (IMC).

- O. Flexible Connections to Luminaires Above Accessible Ceilings: Use flexible metal conduit (FMC).
 - 1. Maximum Length: 6 feet.
- P. Flexible Connections to Vibrating Equipment:
 - 1. Dry Locations: Use flexible metal conduit (FMC).
 - 2. Damp, Wet, or Corrosive Locations: Use liquidtight flexible metal conduit (LFMC).
 - 3. Vibrating equipment includes, but is not limited to:
 - a. Transformers.
 - b. Motors.
- Q. Fished in Existing Walls, Where Necessary: Use flexible metal conduit (FMC) or galvanized steel electrical metallic tubing (EMT).

2.2 CONDUIT - GENERAL REQUIREMENTS

- A. Comply with NFPA 70.
- B. Existing Work: Where existing conduits are indicated to be reused, they may be reused only where they comply with specified requirements, are free from corrosion, and integrity is verified by pulling mandrel through them.
- C. Provide conduit, fittings, supports, and accessories required for complete raceway system.
- D. Provide products listed, classified, and labeled as suitable for purpose intended.
- E. Minimum Conduit Size, Unless Otherwise Indicated:
 - 1. Branch Circuits: 3/4 inch (21 mm) trade size.
 - 2. Flexible Connections to Luminaires: 3/8-inch trade size.
 - 3. Underground, Interior: 1 inch (27 mm) trade size.
 - 4. Underground, Exterior: 1-inch trade size.
- F. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

2.3 GALVANIZED STEEL RIGID METAL CONDUIT (RMC)

- A. Manufacturers:
 - 1. Allied Tube & Conduit: www.alliedeg.com

2. Republic Conduit: www.republic-conduit.com

3. Wheatland Tube, a Division of Zekelman Industries: www.wheatland.com

B. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit complying with ANSI C80.1 and listed and labeled as complying with UL 6.

C. Fittings:

1. Nonhazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B or UL 6.

2. Material: Use steel or malleable iron.

3. Connectors and Couplings: Use threaded type fittings only. Threadless fittings, including set screw and compression/gland types, are not permitted.

2.4 ALUMINUM RIGID METAL CONDUIT (RMC)

A. Manufacturers:

1. Allied Tube & Conduit, a division of Atkore International: www.alliedeg.com/#sle.

2. Western Tube, a division of Zekelman Industries: www.westerntube.com/#sle.

3. Wheatland Tube, a division of Zekelman Industries: www.wheatland.com/#sle.

B. Description: NFPA 70, Type RMC aluminum rigid metal conduit complying with ANSI C80.5 and listed and labeled as complying with UL 6A.

C. Fittings:

1. Manufacturers:

a. ABB; T&B: www.electrification.us.abb.com/#sle.

b. Allied Tube & Conduit, a division of Atkore International: www.alliedeg.us/#sle.

c. Bridgeport Fittings, LLC: www.bptfittings.com/#sle.

d. Emerson Electric Co; O-Z/Gedney: www.emerson.com/#sle.

2. Nonhazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B or UL 6A.

3. Material: Use aluminum.

4. Connectors and Couplings: Use threaded type fittings only. Threadless fittings, including set screw and compression/gland types, are not permitted.

2.5 FLEXIBLE METAL CONDUIT (FMC)

A. Manufacturers:

1. AFC Cable Systems, Inc: www.afcweb.com
2. Electri-Flex Company: www.electriflex.com
3. International Metal Hose: www.metalhose.com

B. Description: NFPA 70, Type FMC standard-wall steel flexible metal conduit listed and labeled as complying with UL 1, and listed for use in classified firestop systems.

C. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
2. Material: Use steel or malleable iron.

2.6 GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT)

A. Manufacturers:

1. Allied Tube & Conduit: www.alliedeg.com
2. Republic Conduit: www.republic-conduit.com
3. Wheatland Tube, a Division of Zekelman Industries: www.wheatland.com

B. Description: NFPA 70, Type EMT galvanized steel electrical metallic tubing complying with ANSI C80.3 and listed and labeled as complying with UL 797.

C. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
2. Material: Use steel or malleable iron.
3. Connectors and Couplings: Use compression/gland or set-screw type.
 - a. Do not use indenter type connectors and couplings.
4. Damp or Wet Locations, Where Permitted: Use fittings listed for use in wet locations.
5. Embedded Within Concrete, Where Permitted: Use fittings listed as concrete-tight. Fittings that require taping to be concrete-tight are acceptable.

2.7 ALUMINUM ELECTRICAL METALLIC TUBING (EMT)

A. Description: NFPA 70, Type EMT aluminum electrical metallic tubing listed and labeled as complying with UL 797A.

B. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B; listed for use with aluminum EMT.
2. Material: Use aluminum.
3. Connectors and Couplings: Use compression/gland or set-screw type.
 - a. Do not use indenter type connectors and couplings.

2.8 RIGID POLYVINYL CHLORIDE (PVC) CONDUIT

A. Manufacturers:

1. ABB; Carlon: www.carlon.com/#sle.
2. Cantex Inc: www.cantexinc.com
3. JM Eagle: www.jmeagle.com

B. Description: NFPA 70, Type PVC rigid polyvinyl chloride conduit complying with NEMA TC 2 and listed and labeled as complying with UL 651; Schedule 40 unless otherwise indicated, Schedule 80 where subject to physical damage; rated for use with conductors rated 90 degrees C.

C. Fittings:

1. Manufacturer: Same as manufacturer of conduit to be connected.
2. Description: Fittings complying with NEMA TC 3 and listed and labeled as complying with UL 651; material to match conduit.

2.9 ACCESSORIES

- A. Corrosion Protection Tape: PVC-based, minimum thickness of 20 mil, 0.020 inch.
- B. Conduit Joint Compound: Corrosion-resistant, electrically conductive compound listed as complying with UL 2419; suitable for use with conduit to be installed.
- C. Solvent Cement for PVC Conduit and Fittings: As recommended by manufacturer of conduit and fittings to be installed.
- D. Pull Strings: Use nylon or polyester tape with average breaking strength of not less than 1,250 lbf.
- E. Foam Conduit Sealant:
 1. Removable, two-part, closed-cell foam, specifically designed for sealing conduit openings against water, moisture, gases, and dust.

2. Suitable for use with conductors/cables and associated insulation/jackets to be installed.
 3. Rated to hold minimum of 10 ft water head pressure.
- F. Conduit Mechanical Seals:
1. Listed as complying with UL 514B.
 2. Specifically designed for sealing conduit openings against water, moisture, gases, and dust.
 3. Suitable for sealing around conductors/cables to be installed.
- G. Sealing Compound for Hazardous/Classified Location Sealing Fittings: Listed for use with particular fittings to be installed.
- H. Sealing Systems for Concrete Penetrations:
1. Sleeves: Provide water stop ring or cement coating that bonds to concrete to prevent water infiltration.
 2. Rate for minimum of 40 psig; suitable for sealing around conduits to be installed.
- I. Sealing Systems for Roof Penetrations: Premanufactured components and accessories as required to preserve integrity of roofing system and maintain roof warranty; suitable for conduits and roofing system to be installed; designed to accommodate existing penetrations where applicable.
- J. Firestop Sleeves: Listed; provide as required to preserve fire resistance rating of building elements.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that mounting surfaces are ready to receive conduits.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install conduit in accordance with NECA 1.
- C. Install galvanized steel rigid metal conduit (RMC) in accordance with NECA 101.
- D. Install aluminum rigid metal conduit (RMC) in accordance with NECA 102.

- E. Install rigid polyvinyl chloride (PVC) conduit in accordance with NECA 111.
- F. Conduit Routing:
 - 1. Unless dimensioned, conduit routing indicated is diagrammatic.
 - 2. When conduit destination is indicated without specific routing, determine exact routing required.
 - 3. Conceal conduits unless specifically indicated to be exposed.
 - 4. Conduits in the following areas may be exposed, unless otherwise indicated:
 - a. Electrical rooms.
 - b. Mechanical equipment rooms.
 - 5. Unless otherwise approved, do not route exposed conduits:
 - a. Across floors.
 - b. Across roofs.
 - c. Across top of parapet walls.
 - d. Across building exterior surfaces.
 - 6. Conduits installed underground or embedded in concrete may be routed in shortest possible manner unless otherwise indicated. Route other conduits parallel or perpendicular to building structure and surfaces, following surface contours where practical.
 - 7. Arrange conduit to maintain adequate headroom, clearances, and access.
 - 8. Arrange conduit to provide no more than equivalent of four 90-degree bends between pull points.
 - 9. Arrange conduit to prevent moisture traps. Provide drain fittings at low points and at sealing fittings where moisture may collect.
 - 10. Group parallel conduits in same area on common rack.
- G. Conduit Support:
 - 1. Secure and support conduits in accordance with NFPA 70 using suitable supports and methods approved by authorities having jurisdiction; see Section 26 0529.
 - 2. Provide independent support from building structure. Do not provide support from piping, ductwork, or other systems.

3. Installation Above Suspended Ceilings: Do not provide support from ceiling support system. Do not provide support from ceiling grid or allow conduits to lay on ceiling tiles.
4. Use conduit strap to support single surface-mounted conduit.
 - a. Use clamp back spacer with conduit strap for damp and wet locations to provide space between conduit and mounting surface.
5. Use metal channel/strut with accessory conduit clamps to support multiple parallel surface-mounted conduits.
6. Use trapeze hangers assembled from threaded rods and metal channel/strut with accessory conduit clamps to support multiple parallel suspended conduits.
7. Use of wire for support of conduits is not permitted.

H. Connections and Terminations:

1. Use approved zinc-rich paint or conduit joint compound on field-cut threads of galvanized steel conduits prior to making connections.
2. Where two threaded conduits must be joined and neither can be rotated, use three-piece couplings or split couplings. Do not use running threads.
3. Use suitable adapters where required to transition from one type of conduit to another.
4. Terminate threaded conduits in boxes and enclosures using threaded hubs or double lock nuts for dry locations and raintight hubs for wet locations.
5. Provide insulating bushings, insulated throats, or listed metal fittings with smooth, rounded edges at conduit terminations to protect conductors.
6. Secure joints and connections to provide mechanical strength and electrical continuity.

I. Penetrations:

1. Do not penetrate or otherwise notch or cut structural members, including footings and grade beams, without approval of Structural Engineer.
2. Make penetrations perpendicular to surfaces unless otherwise indicated.
3. Provide sleeves for penetrations as indicated or as required to facilitate installation. Set sleeves flush with exposed surfaces unless otherwise indicated or required.
4. Conceal bends for conduit risers emerging above ground.
5. Where conduits penetrate waterproof membrane, seal as required to maintain integrity of membrane.

6. Make penetrations for roof-mounted equipment within associated equipment openings and curbs where possible to minimize roofing system penetrations. Where penetrations are necessary, seal as indicated or as required to preserve integrity of roofing system and maintain roof warranty.
 7. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Division 07.
- J. Underground Installation:
1. Provide trenching and backfilling in accordance with Division 31.
- K. Concrete Encasement: Where conduits not otherwise embedded within concrete are indicated to be concrete-encased, provide concrete in accordance with Division 03 with minimum concrete cover of 2 inches on all sides unless otherwise indicated.
- L. Conduit Movement Provisions: Where conduits are subject to movement, provide expansion and expansion/deflection fittings to prevent damage to enclosed conductors or connected equipment. This includes, but is not limited to:
1. Where conduits cross structural joints intended for expansion, contraction, or deflection.
 2. Where calculated in accordance with NFPA 70 for rigid polyvinyl chloride (PVC) conduit installed above ground to compensate for thermal expansion and contraction.
 3. Where conduits are subject to earth movement by settlement or frost.
- M. Conduit Sealing:
1. Use foam conduit sealant to prevent entry of moisture and gases. This includes, but is not limited to:
 - a. Where conduits enter building from outside.
 - b. Where service conduits enter building from underground distribution system.
 - c. Where conduits enter building from underground.
 - d. Where conduits may transport moisture to contact live parts.
 2. Where conduits cross barriers between areas of potential substantial temperature differential, use foam conduit sealant at accessible point near penetration to prevent condensation. This includes, but is not limited to:
 - a. Where conduits pass from outdoors into conditioned interior spaces.
 - b. Where conduits pass from unconditioned interior spaces into conditioned interior spaces.

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Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

N. Provide grounding and bonding; see Section 26 0526.

O. Identify conduits; see Section 26 0553.

3.3 PROTECTION

A. Immediately after installation of conduit, use suitable manufactured plugs to provide protection from entry of moisture and foreign material and do not remove until ready for installation of conductors.

END OF SECTION

SECTION 26 0529
HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Support and attachment requirements and components for equipment, conduit, cable, boxes, and other electrical work.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements, and cutting and patching requirements.
- C. Division 03 - Concrete: Concrete equipment pads.
- D. Section 26 0005 - Basic Electrical Requirements
- E. Section 26 0533.13 - Conduit for Electrical Systems: Additional support and attachment requirements for conduits.
- F. Section 26 0536 - Cable Trays for Electrical Systems: Additional support and attachment requirements for cable tray.
- G. Section 26 0533.16 - Boxes for Electrical Systems: Additional support and attachment requirements for boxes.
- H. Section 26 2513 - Low-Voltage Busways: Additional support and attachment requirements for busway.
- I. Section 26 5100 - Interior Lighting: Additional support and attachment requirements for interior luminaires.
- J. Section 26 5600 - Exterior Lighting: Additional support and attachment requirements for exterior luminaires.

1.3 REFERENCE STANDARDS

- A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2023.
- C. ASTM B633 - Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel; 2023.

- D. MFMA-4 - Metal Framing Standards Publication; 2004.
- E. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- F. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- G. UL 5B - Strut-Type Channel Raceways and Fittings; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate sizes and arrangement of supports and bases with actual equipment and components to be installed.
 - 2. Coordinate work to provide additional framing and materials required for installation.
 - 3. Coordinate compatibility of support and attachment components with mounting surfaces at installed locations.
 - 4. Coordinate arrangement of supports with ductwork, piping, equipment and other potential conflicts.
 - 5. Notify Architect of conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.
- B. Sequencing:
 - 1. Do not install products on or provide attachment to concrete surfaces until concrete has fully cured in accordance with Division 03.

1.5 QUALITY ASSURANCE

- A. Product Listing Organization Qualifications: Organization recognized by OSHA as Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

PART 2 PRODUCTS

2.1 SUPPORT AND ATTACHMENT COMPONENTS

- A. General Requirements:
 - 1. Comply with the following. Where requirements differ, comply with most stringent.
 - a. NFPA 70.
 - b. Requirements of authorities having jurisdiction.

2. Provide required hangers, supports, anchors, fasteners, fittings, accessories, and hardware as necessary for complete installation of electrical work.
 3. Provide products listed, classified, and labeled as suitable for purpose intended, where applicable.
 4. Where support and attachment component types and sizes are not indicated, select in accordance with manufacturer's application criteria as required for the load to be supported. Include consideration for vibration, equipment operation, and shock loads where applicable.
 5. Do not use products for applications other than as permitted by NFPA 70 and product listing.
 6. Steel Components: Use corrosion-resistant materials suitable for environment where installed.
 - a. Zinc-Plated Steel: Electroplated in accordance with ASTM B633.
 - b. Galvanized Steel: Hot-dip galvanized after fabrication in accordance with ASTM A123/A123M or ASTM A153/A153M.
- B. Conduit and Cable Supports: Straps and clamps suitable for conduit or cable to be supported.
1. Conduit Straps: One-hole or two-hole type; steel or malleable iron.
 2. Conduit Clamps: Bolted type unless otherwise indicated.
- C. Outlet Box Supports: Hangers and brackets suitable for boxes to be supported.
1. Manufacturers:
 - a. ABB: www.electrification.us.abb.com
 - b. Eaton Corporation: www.eaton.com
 - c. Emerson Electric Co; O-Z/Gedney: www.emerson.com
 - d. HoldRite, a brand of Reliance Worldwide Corporation: www.holdrite.com
 - e. nVent; Caddy: www.nvent.com
- D. Metal Channel/Strut Framing Systems:
1. Manufacturers:
 - a. ABB: www.electrification.us.abb.com/#sle.
 - b. Atkore International Inc; Unistrut: www.unistrut.us/#sle.

- c. Eaton Corporation: www.eaton.com/#sle.
 - 2. Description: Factory-fabricated, continuous-slot, metal channel/strut and associated fittings, accessories, and hardware required for field assembly of supports.
 - 3. Comply with MFMA-4.
 - 4. Channel/Strut Used as Raceway, Where Indicated: Listed and labeled as complying with UL 5B.
- E. Hanger Rods: Threaded, zinc-plated steel unless otherwise indicated.
- 1. Minimum Size, Unless Otherwise Indicated or Required:
 - a. Equipment Supports: 1/2-inch diameter.
 - b. Single Conduit up to 1-inch (27 mm) Trade Size: 1/4-inch diameter.
 - c. Single Conduit Larger than 1-inch (27 mm) Trade Size: 3/8-inch diameter.
 - d. Trapeze Support for Multiple Conduits: 3/8-inch diameter.
 - e. Outlet Boxes: 1/4-inch diameter.
 - f. Luminaires: 1/4-inch diameter.
- F. Nonpenetrating Rooftop Supports for Low-Slope Roofs:
- 1. Manufacturers:
 - a. Atkore International Inc; Unistrut: www.unistrut.us/#sle.
 - b. Eaton Corporation: www.eaton.com/#sle.
 - c. nVent; Caddy: www.nvent.com/#sle.
 - d. PHP Systems/Design: www.phpsd.com/#sle.
 - 2. Description: Steel pedestals with thermoplastic or rubber bases that rest on top of roofing membrane, not requiring attachment to roof structure and not penetrating roofing assembly, with support fixtures as specified.
 - 3. Base Sizes: As required to distribute load sufficiently to prevent indentation of roofing assembly.
 - 4. Attachment/Support Fixtures: As recommended by manufacturer, same type as indicated for equivalent indoor hangers and supports.
 - 5. Mounting Height: Provide minimum clearance of 6 inches under supported component to top of roofing.

G. Anchors and Fasteners:

1. Manufacturers - Mechanical Anchors:
 - a. Dewalt: anchors.dewalt.com
 - b. Hilti, Inc: www.hilti.com
 - c. ITW Red Head, a division of Illinois Tool Works, Inc: www.itwredhead.com
 - d. Simpson Strong-Tie Company Inc: www.strongtie.com
2. Unless otherwise indicated and where not otherwise restricted, use anchor and fastener types indicated for specified applications.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Install hangers and supports in accordance with NECA 1.
- C. Provide independent support from building structure. Do not provide support from piping, ductwork, or other systems.
- D. Unless specifically indicated or approved by Architect, do not provide support from suspended ceiling support system or ceiling grid.
- E. Unless specifically indicated or approved by Architect, do not provide support from roof deck.
- F. Do not penetrate or otherwise notch or cut structural members without approval of Structural Engineer.
- G. Equipment Support and Attachment:
 1. Use metal, fabricated supports or supports assembled from metal channel/strut to support equipment as required.
 2. Use metal channel/strut secured to studs to support equipment surface mounted on hollow stud walls when wall strength is not sufficient to resist pull-out.
 3. Use metal channel/strut to support surface-mounted equipment in wet or damp locations to provide space between equipment and mounting surface.
 4. Unless otherwise indicated, mount floor-mounted equipment on properly sized 4 inch high concrete pad constructed in accordance with Division 03.
 5. Securely fasten floor-mounted equipment. Do not install equipment such that it relies on its own weight for support.

- H. Conduit Support and Attachment: See Section 26 0533.13 for additional requirements.
- I. Cable Tray Support and Attachment: See Section 26 0536 for additional requirements.
- J. Box Support and Attachment: See Section 26 0533.16 for additional requirements.
- K. Busway Support and Attachment: See Section 26 2513 for additional requirements.
- L. Interior Luminaire Support and Attachment: See Section 26 5100 for additional requirements.
- M. Exterior Luminaire Support and Attachment: See Section 26 5600 for additional requirements.
- N. Secure fasteners in accordance with manufacturer's recommended torque settings.
- O. Remove temporary supports.
- P. Identify independent electrical component support wires above accessible ceilings, where permitted, with color distinguishable from ceiling support wires in accordance with NFPA 70.

3.2 FIELD QUALITY CONTROL

- A. Inspect support and attachment components for damage and defects.
- B. Repair cuts and abrasions in galvanized finishes using zinc-rich paint recommended by manufacturer. Replace components that exhibit signs of corrosion.
- C. Correct deficiencies and replace damaged or defective support and attachment components.

END OF SECTION

SECTION 26 0526
GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Grounding and bonding requirements.
- B. Conductors for grounding and bonding.
- C. Connectors for grounding and bonding.
- D. Ground bars.
- E. Ground rod electrodes.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements, cutting and patching requirements, repairs.
- C. Section 26 0005 - Basic Electrical Requirements
- D. Section 26 0519 - Low-Voltage Electrical Power Conductors and Cables: Additional requirements for conductors for grounding and bonding, including conductor color coding.
- E. Section 26 0536 - Cable Trays for Electrical Systems: Additional grounding and bonding requirements for cable tray systems.
- F. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- G. Section 26 5600 - Exterior Lighting: Additional grounding and bonding requirements for pole-mounted luminaires.
- H. Division 31 - Earthwork: Excavating, trenching and fill.

1.3 REFERENCE STANDARDS

- A. IEEE 81 - IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System; 2012.
- B. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- C. NEMA GR 1 - Grounding Rod Electrodes and Grounding Rod Electrode Couplings; 2022.

- D. NETA ATS - Standard For Acceptance Testing Specifications For Electrical Power Equipment And Systems; 2021.
- E. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- F. UL 467 - Grounding and Bonding Equipment; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

- 1. Verify exact locations of underground metal water service pipe entrances to building.
- 2. Coordinate the work with other trades to provide steel reinforcement complying with specified requirements for concrete-encased electrode.
- 3. Notify Strategic Energy Solutions, Inc. of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:

- 1. Do not install ground rod electrodes until final backfill and compaction is complete.

1.5 SUBMITTALS

- A. Contractor shall provide submittals for equipment listed herein. Refer to Division 01 for submittal procedures.
- B. Project Record Documents: Record actual locations of grounding electrode system components and connections.

PART 2 PRODUCTS

2.1 GROUNDING AND BONDING REQUIREMENTS

- A. Existing Work: Where existing grounding and bonding system components are indicated to be reused, they may be reused only where they are free from corrosion, integrity and continuity are verified, and where acceptable to the authority having jurisdiction.
- B. Do not use products for applications other than as permitted by NFPA 70 and product listing.
- C. Unless specifically indicated to be excluded, provide all required components, conductors, connectors, conduit, boxes, fittings, supports, accessories, etc. as necessary for a complete grounding and bonding system.
- D. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
- E. Grounding System Resistance:

1. Achieve specified grounding system resistance under normally dry conditions unless otherwise approved by Architect. Precipitation within the previous 48 hours does not constitute normally dry conditions.
2. Grounding Electrode System: Not greater than 5 ohms to ground, when tested according to IEEE 81 using "fall-of-potential" method.
3. Between Grounding Electrode System and Major Electrical Equipment Frames, System Neutral, and Derived Neutral Points: Not greater than 0.5 ohms, when tested using "point-to-point" methods.

F. Grounding Electrode System:

1. Provide connection to required and supplemental grounding electrodes indicated to form grounding electrode system.
 - a. Provide continuous grounding electrode conductors without splice or joint.
 - b. Install grounding electrode conductors in raceway where exposed to physical damage. Bond grounding electrode conductor to metallic raceways at each end with bonding jumper.
2. Metal Underground Water Pipe(s):
 - a. Provide connection to underground metal domestic and fire protection (where present) water service pipe(s) that are in direct contact with earth for at least 10 feet at an accessible location not more than 5 feet from the point of entrance to the building.
 - b. Provide bonding jumper(s) around insulating joints/pipes as required to make pipe electrically continuous.
 - c. Provide bonding jumper around water meter of sufficient length to permit removal of meter without disconnecting jumper.
3. Concrete-Encased Electrode:
 - a. Provide connection to concrete-encased electrode consisting of not less than 20 feet of either steel reinforcing bars or bare copper conductor not smaller than 4 AWG embedded within concrete foundation or footing that is in direct contact with earth in accordance with NFPA 70.
4. Ground Ring:
 - a. Provide a ground ring encircling the building or structure consisting of bare copper conductor not less than 2 AWG in direct contact with earth, installed at a depth of not less than 30 inches.

- b. Where location is not indicated, locate ground ring conductor at least 24 inches outside building perimeter foundation.
 - c. Provide ground enhancement material around conductor.
 - d. Provide connection from ground ring conductor to:
 - 1) Perimeter columns of metal building frame.
 - 2) Ground rod electrodes located as indicated.
5. Ground Rod Electrode(s):
- a. Provide three electrodes in an equilateral triangle configuration unless otherwise indicated or required.
 - b. Space electrodes not less than 10 feet from each other and any other ground electrode.
 - c. Where location is not indicated, locate electrode(s) at least 5 feet outside building perimeter foundation as near as possible to electrical service entrance; where possible, locate in softscape (uncovered) area.
6. Provide additional ground electrode(s) as required to achieve specified grounding electrode system resistance.
7. Ground Bar: Provide ground bar, separate from service equipment enclosure, for common connection point of grounding electrode system bonding jumpers as permitted in NFPA 70. Connect grounding electrode conductor provided for service-supplied system grounding to this ground bar.
- a. Ground Bar Size: 1/4 by 2 by 12 inches unless otherwise indicated or required.
 - b. Where ground bar location is not indicated, locate in accessible location as near as possible to service disconnect enclosure.
 - c. Ground Bar Mounting Height: 18 inches above finished floor unless otherwise indicated.
- G. Bonding and Equipment Grounding:
- 1. Provide bonding for equipment grounding conductors, equipment ground busses, metallic equipment enclosures, metallic raceways and boxes, device grounding terminals, and other normally non-current-carrying conductive materials enclosing electrical conductors/equipment or likely to become energized as indicated and in accordance with NFPA 70.
 - 2. Provide insulated equipment grounding conductor in each feeder and branch circuit raceway. Do not use raceways as sole equipment grounding conductor.

3. Where circuit conductor sizes are increased for voltage drop, increase size of equipment grounding conductor proportionally in accordance with NFPA 70.
4. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.
5. Terminate branch circuit equipment grounding conductors on solidly bonded equipment ground bus only. Do not terminate on neutral (grounded) or isolated/insulated ground bus.
6. Provide bonding jumper across expansion or expansion/deflection fittings provided to accommodate conduit movement.
7. Provide bonding for interior metal piping systems in accordance with NFPA 70. This includes, but is not limited to:
 - a. Metal water piping where not already effectively bonded to metal underground water pipe used as grounding electrode.
 - b. Metal gas piping.
8. Provide bonding for metal building frame.
9. Provide bonding for metal siding not effectively bonded through attachment to metal building frame.

H. Cable Tray Systems: Also comply with Section 26 0536.

I. Pole-Mounted Luminaires: Also comply with Section 26 5600.

2.2 GROUNDING AND BONDING COMPONENTS

A. General Requirements:

1. Provide products listed, classified, and labeled as suitable for the purpose intended.
2. Provide products listed and labeled as complying with UL 467 where applicable.

B. Conductors for Grounding and Bonding, in Addition to Requirements of Section 26 0526:

1. Use insulated copper conductors unless otherwise indicated.
 - a. Exceptions:
 - 1) Use bare copper conductors where installed underground in direct contact with earth.
 - 2) Use bare copper conductors where directly encased in concrete (not in raceway).

C. Connectors for Grounding and Bonding:

1. Description: Connectors appropriate for the application and suitable for the conductors and items to be connected; listed and labeled as complying with UL 467.
2. Unless otherwise indicated, use exothermic welded connections for underground, concealed and other inaccessible connections.
3. Unless otherwise indicated, use mechanical connectors, compression connectors, or exothermic welded connections for accessible connections.
4. Manufacturers - Mechanical and Compression Connectors:
 - a. Advanced Lightning Technology (ALT): www.altfab.com
 - b. Burndy LLC: www.burndy.com
 - c. Harger Lightning & Grounding: www.harger.com
 - d. nVent ERICO; _____: www.nvent.com/
 - e. Thomas & Betts Corporation: www.tnb.com
5. Manufacturers - Exothermic Welded Connections:
 - a. Burndy LLC: www.burndy.com
 - b. nVent ERICO; Cadweld: www.nvent.com
 - c. thermOweld, subsidiary of Continental Industries; division of Burndy LLC: www.thermoweld.com

D. Ground Bars:

1. Description: Copper rectangular ground bars with mounting brackets and insulators.
2. Size: As indicated.
3. Holes for Connections: As indicated or as required for connections to be made.
4. Manufacturers:
 - a. Advanced Lightning Technology (ALT): www.altfab.com
 - b. Harger Lightning & Grounding: www.harger.com
 - c. nVent ERICO: www.nvent.com/
 - d. thermOweld, subsidiary of Continental Industries; division of Burndy LLC: www.thermoweld.com

E. Ground Rod Electrodes:

1. Comply with NEMA GR 1.
2. Material: Copper-bonded (copper-clad) steel.
3. Size: 3/4 inch diameter by 10 feet length, unless otherwise indicated.
4. Where rod lengths of greater than 10 feet are indicated or otherwise required, sectionalized ground rods may be used.
5. Manufacturers:
 - a. Advanced Lightning Technology (ALT): www.altfab.com/#sle.
 - b. Galvan Industries, Inc: www.galvanelectrical.com/#sle.
 - c. Harger Lightning & Grounding: www.harger.com/#sle.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that work likely to damage grounding and bonding system components has been completed.
- B. Verify that field measurements are as indicated.
- C. Verify that conditions are satisfactory for installation prior to starting work.

3.2 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Perform work in accordance with NECA 1 (general workmanship).
- C. Ground Rod Electrodes: Unless otherwise indicated, install ground rod electrodes vertically. Where encountered rock prohibits vertical installation, install at 45 degree angle or bury horizontally in trench at least 30 inches (750 mm) deep in accordance with NFPA 70 or provide ground plates.
- D. Make grounding and bonding connections using specified connectors.
 1. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors. Do not remove conductor strands to facilitate insertion into connector.
 2. Remove nonconductive paint, enamel, or similar coating at threads, contact points, and contact surfaces.
 3. Exothermic Welds: Make connections using molds and weld material suitable for the items to be connected in accordance with manufacturer's recommendations.

Kingscott Associates, Inc.
Architects/Engineers
Portage, Michigan

Mt. Pleasant Schools
High School Gymnasium Wall Repair
Mt. Pleasant, Michigan

4. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.
 5. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.
- E. Identify grounding and bonding system components in accordance with Section 26 0553.

3.3 FIELD QUALITY CONTROL

- A. Inspect and test in accordance with NETA ATS except Section 4.
- B. Perform inspections and tests listed in NETA ATS, Section 7.13.
- C. Perform ground electrode resistance tests under normally dry conditions. Precipitation within the previous 48 hours does not constitute normally dry conditions.
- D. Investigate and correct deficiencies where measured ground resistances do not comply with specified requirements.

END OF SECTION

SECTION 26 0519
LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Single conductor building wire.
- B. Wiring connectors.
- C. Electrical tape.
- D. Heat shrink tubing.
- E. Oxide inhibiting compound.
- F. Wire pulling lubricant.
- G. Cable ties.
- H. Firestop sleeves.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements.
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements, cutting and patching requirements, and repairs.
- C. Division 07 - Thermal and Moisture Protection: Firestopping.
- D. Section 26 0005 - Basic Electrical Requirements.
- E. Section 26 0505 - Selective Demolition for Electrical: Disconnection, removal, and/or extension of existing electrical conductors and cables.
- F. Section 26 0526 - Grounding and Bonding for Electrical Systems: Additional requirements for grounding conductors and grounding connectors.
- G. Section 26 0536 - Cable Trays for Electrical Systems: Additional installation requirements for cables installed in cable tray systems.
- H. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
- I. Section 28 4600 - Fire Detection and Alarm: Fire alarm system conductors and cables.
- J. Division 31 - Earthwork: Excavating, bedding, and backfilling.

1.3 REFERENCE STANDARDS

- A. ASTM B3 - Standard Specification for Soft or Annealed Copper Wire; 2013 (Reapproved 2018).
- B. ASTM B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft; 2011 (Reapproved 2017).
- C. ASTM B33 - Standard Specification for Tin-Coated Soft or Annealed Copper Wire for Electrical Purposes; 2010, with Editorial Revision (2020).
- D. ASTM B787/B787M - Standard Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation; 2004 (Reapproved 2020).
- E. NECA 1 - Standard for Good Workmanship in Electrical Construction; 2015.
- F. NECA 120 - Standard for Installing Armored Cable (AC) and Type Metal-Clad (MC) Cable; 2018.
- G. NEMA WC 70 - Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy; 2021.
- H. NETA ATS - Standard For Acceptance Testing Specifications For Electrical Power Equipment And Systems; 2021.
- I. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- J. UL 44 - Thermoset-Insulated Wires and Cables; Current Edition, Including All Revisions.
- K. UL 83 - Thermoplastic-Insulated Wires and Cables; Current Edition, Including All Revisions.
- L. UL 486A-486B - Wire Connectors; Current Edition, Including All Revisions.
- M. UL 486C - Splicing Wire Connectors; Current Edition, Including All Revisions.
- N. UL 486D - Sealed Wire Connector Systems; Current Edition, Including All Revisions.
- O. UL 1569 - Metal-Clad Cables; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate sizes of raceways, boxes, and equipment enclosures installed under other sections with the actual conductors to be installed, including adjustments for conductor sizes increased for voltage drop.
 - 2. Coordinate with electrical equipment installed under other sections to provide terminations suitable for use with the conductors to be installed.

3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.5 SUBMITTALS

- A. Contractor shall provide submittals for equipment listed herein. Refer to Division 01 for submittal procedures.

1.6 QUALITY ASSURANCE

- A. Comply with requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.7 FIELD CONDITIONS

- A. Do not install or otherwise handle thermoplastic-insulated conductors at temperatures lower than 14 degrees F, unless otherwise permitted by manufacturer's instructions. When installation below this temperature is unavoidable, notify Architect and obtain direction before proceeding with work.

PART 2 PRODUCTS

2.1 CONDUCTOR AND CABLE APPLICATIONS

- A. Do not use conductors and cables for applications other than as permitted by NFPA 70 and product listing.
- B. Provide single conductor building wire installed in suitable raceway unless otherwise indicated, permitted, or required.
- C. Feeders provided for Emergency Power systems shall within a 2-hour rated raceway or enclosure and installed per NEC 700.11.
- D. Nonmetallic-sheathed cable is not permitted.
- E. Underground feeder and branch-circuit cable is not permitted.
- F. Service entrance cable is not permitted.
- G. Armored cable is not permitted.
- H. Metal-clad cable is not permitted.

1. Where not otherwise restricted, may be used:

- a. Where concealed above accessible ceilings for final connections from junction boxes to luminaires.

- 1) Maximum Length: 6 feet.

- I. Mineral-Insulated cable is permitted only as follows:

- 1. Where not otherwise restricted, may be used:

- a. For feeders from Generator to Fire Pump.

- J. Manufactured wiring systems are not permitted.

2.2 CONDUCTOR AND CABLE GENERAL REQUIREMENTS

- A. Provide products that comply with requirements of NFPA 70.
- B. Provide products listed, classified, and labeled as suitable for the purpose intended.
- C. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, etc. as required for a complete operating system.
- D. Comply with NEMA WC 70.
- E. Thermoplastic-Insulated Conductors and Cables: Listed and labeled as complying with UL 83.
- F. Thermoset-Insulated Conductors and Cables: Listed and labeled as complying with UL 44.
- G. Conductor Material:
 - 1. Provide copper conductors only. Aluminum conductors are not acceptable for this project. Conductor sizes indicated are based on copper.
 - 2. Copper Conductors: Soft drawn annealed, 98 percent conductivity, uncoated copper conductors complying with ASTM B3, ASTM B8, or ASTM B787/B787M unless otherwise indicated.
 - 3. Tinned Copper Conductors: Comply with ASTM B33.
- H. Minimum Conductor Size:
 - 1. Branch Circuits: 12 AWG.
 - a. Exceptions:
 - 1) 20 A, 120 V circuits longer than 75 feet: 10 AWG, for voltage drop.
 - 2) 20 A, 120 V circuits longer than 150 feet: 8 AWG, for voltage drop.
 - 3) 20 A, 277 V circuits longer than 150 feet: 10 AWG, for voltage drop.

- I. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.
- J. Conductor Color Coding:
 - 1. Color code conductors as indicated unless otherwise required by the authority having jurisdiction. Maintain consistent color coding throughout project.
 - 2. Color Coding Method: Integrally colored insulation.
 - 3. Color Code:
 - a. 480Y/277 V, 3 Phase, 4 Wire System:
 - 1) Phase A: Brown.
 - 2) Phase B: Orange.
 - 3) Phase C: Yellow.
 - 4) Neutral/Grounded: Gray.
 - b. 208Y/120 V, 3 Phase, 4 Wire System:
 - 1) Phase A: Black.
 - 2) Phase B: Red.
 - 3) Phase C: Blue.
 - 4) Neutral/Grounded: White.
 - c. Equipment Ground, All Systems: Green.
 - d. For modifications or additions to existing wiring systems, comply with existing color code when existing code complies with NFPA 70 and is approved by the authority having jurisdiction.

2.3 SINGLE CONDUCTOR BUILDING WIRE

- A. Manufacturers:
 - 1. Copper Building Wire:
 - a. Cerro Wire LLC: www.cerrowire.com.
 - b. Encore Wire Corporation: www.encorewire.com.
 - c. General Cable Technologies Corporation: www.generalcable.com.
 - d. Southwire Company: www.southwire.com.

- B. Description: Single conductor insulated wire.
- C. Conductor Stranding:
 - 1. Feeders and Branch Circuits:
 - a. Size 10 AWG and Smaller: Stranded.
 - b. Size 8 AWG and Larger: Stranded.
- D. Insulation Voltage Rating: 600 V.
- E. Insulation:
 - 1. Copper Building Wire: Type THHN/THWN or THHN/THWN-2, except as indicated below.

2.4 METAL-CLAD CABLE

- A. Manufacturers:
 - 1. Cerro Wire LLC: www.cerrowire.com.
 - 2. AFC Cable Systems Inc: www.afcweb.com.
 - 3. Encore Wire Corporation: www.encorewire.com.
 - 4. Southwire Company: www.southwire.com.
- B. Description: NFPA 70, Type MC cable listed and labeled as complying with UL 1569, and listed for use in classified firestop systems to be used.
- C. Conductor Stranding:
 - 1. Size 10 AWG and Smaller: Stranded.
 - 2. Size 8 AWG and Larger: Stranded.
- D. Insulation Voltage Rating: 600 V.
- E. Insulation: Type THHN, THHN/THWN, or THHN/THWN-2.
- F. Provide oversized neutral conductors.
- G. Grounding: Full-size integral equipment grounding conductor.
- H. Armor: Steel, interlocked tape.

2.5 WIRING CONNECTORS

- A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable.
- B. Connectors for Grounding and Bonding: Comply with Section 26 0526.
- C. Wiring Connectors for Splices and Taps:
 - 1. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors.
 - 2. Copper Conductors Size 6 AWG and Larger: Use mechanical connectors or compression connectors.
- D. Wiring Connectors for Terminations:
 - 1. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs.
 - 2. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified.
 - 3. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than required for the rating of the overcurrent protective device.
 - 4. Copper Conductors Size 8 AWG and Larger: Use mechanical connectors or compression connectors where connectors are required.
- E. Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors without stripping insulation.
- F. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors.
- G. Twist-on Insulated Spring Connectors: Rated 600 V, 221 degrees F for standard applications and 302 degrees F for high temperature applications; pre-filled with sealant and listed as complying with UL 486D for damp and wet locations.
- H. Mechanical Connectors: Provide bolted type or set-screw type.
- I. Compression Connectors: Provide circumferential type or hex type crimp configuration.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that interior of building has been protected from weather.
- B. Verify that work likely to damage wire and cable has been completed.

- C. Verify that raceways, boxes, and equipment enclosures are installed and are properly sized to accommodate conductors and cables in accordance with NFPA 70.
- D. Verify that field measurements are as indicated.
- E. Verify that conditions are satisfactory for installation prior to starting work.

3.2 PREPARATION

- A. Clean raceways thoroughly to remove foreign materials before installing conductors and cables.

3.3 INSTALLATION

- A. Circuiting Requirements:
 - 1. Unless dimensioned, circuit routing indicated is diagrammatic.
 - 2. When circuit destination is indicated without specific routing, determine exact routing required.
 - 3. Arrange circuiting to minimize splices.
 - 4. Include circuit lengths required to install connected devices within 10 ft of location indicated.
 - 5. Maintain separation of Class 1, Class 2, and Class 3 remote-control, signaling, and power-limited circuits in accordance with NFPA 70.
 - 6. Maintain separation of wiring for emergency systems in accordance with NFPA 70.
 - 7. Circuiting Adjustments: Unless otherwise indicated, when branch circuits are indicated as separate, combining them together in a single raceway is not permitted.
 - 8. Common Neutrals: Unless otherwise indicated, sharing of neutral/grounded conductors among up to three single phase branch circuits of different phases installed in the same raceway is not permitted. Provide dedicated neutral/grounded conductor for each individual branch circuit.
 - 9. Provide oversized neutral/grounded conductors where indicated and as specified below.
 - a. Provide 200 percent rated neutral for feeders fed from K-rated transformers.
 - b. Provide 200 percent rated neutral for feeders serving panelboards with 200 percent rated neutral bus.
- B. Install products in accordance with manufacturer's instructions.
- C. Perform work in accordance with NECA 1 (general workmanship).
- D. Install metal-clad cable (Type MC) in accordance with NECA 120.

- E. Installation in Raceway:
 - 1. Tape ends of conductors and cables to prevent infiltration of moisture and other contaminants.
 - 2. Pull all conductors and cables together into raceway at same time.
 - 3. Do not damage conductors and cables or exceed manufacturer's recommended maximum pulling tension and sidewall pressure.
 - 4. Use suitable wire pulling lubricant where necessary, except when lubricant is not recommended by the manufacturer.
- F. Paralleled Conductors: Install conductors of the same length and terminate in the same manner.
- G. Secure and support conductors and cables in accordance with NFPA 70 using suitable supports and methods approved by the authority having jurisdiction. Provide independent support from building structure. Do not provide support from raceways, piping, ductwork, or other systems.
- H. Terminate cables using suitable fittings.
 - 1. Metal-Clad Cable (Type MC):
 - a. Use listed fittings.
 - b. Cut cable armor only using specialized tools to prevent damaging conductors or insulation. Do not use hacksaw or wire cutters to cut armor.
- I. Install conductors with a minimum of 12 inches of slack at each outlet.
- J. Where conductors are installed in enclosures for future termination by others, provide a minimum of 5 feet of slack.
- K. Neatly train and bundle conductors inside boxes, wireways, panelboards and other equipment enclosures.
- L. Group or otherwise identify neutral/grounded conductors with associated ungrounded conductors inside enclosures in accordance with NFPA 70.
- M. Make wiring connections using specified wiring connectors.
 - 1. Make splices and taps only in accessible boxes. Do not pull splices into raceways or make splices in conduit bodies or wiring gutters.
 - 2. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors.
 - 3. Do not remove conductor strands to facilitate insertion into connector.

4. Clean contact surfaces on conductors and connectors to suitable remove corrosion, oxides, and other contaminants. Do not use wire brush on plated connector surfaces.
 5. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.
 6. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.
- N. Insulate splices and taps that are made with uninsulated connectors using methods suitable for the application, with insulation and mechanical strength at least equivalent to unspliced conductors.
- O. Insulate ends of spare conductors using vinyl insulating electrical tape.
- P. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Division 07.
- Q. Unless specifically indicated to be excluded, provide final connections to all equipment and devices, including those furnished by others, as required for a complete operating system.

3.4 FIELD QUALITY CONTROL

- A. Inspect and test in accordance with NETA ATS, except Section 4.
- B. Perform inspections and tests listed in NETA ATS, Section 7.3.2. The insulation resistance test is required for all conductors. The resistance test for parallel conductors listed as optional is not required.
- C. Correct deficiencies and replace damaged or defective conductors and cables.

END OF SECTION

SECTION 26 0505
SELECTIVE DEMOLITION FOR ELECTRICAL

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Electrical demolition and extension of existing electrical work.

1.2 RELATED REQUIREMENTS

- A. Division 01 - General Requirements: Project administrative and procedural requirements
- B. Division 02 - Existing Conditions: Demolition, cleaning and disposal requirements.
- C. Section 26 0005 - Basic Electrical Requirements.

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. Materials and equipment for patching and extending work: As specified in individual sections.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that abandoned wiring and equipment serve only abandoned facilities.
- B. Demolition drawings are based on casual field observation and existing record documents.
- C. Beginning of demolition means installer accepts existing conditions.

3.2 PREPARATION

- A. Disconnect electrical systems in walls, floors, and ceilings to be removed.
- B. Coordinate utility service outages with utility company.
- C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.
- D. Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.
 - 1. Obtain permission from Owner at least 24 hours before partially or completely disabling system.
 - 2. Make temporary connections to maintain service in areas adjacent to work area.

- E. Existing Fire Alarm System: Maintain existing system in service until new system is accepted. Disable system only to make switchovers and connections. Minimize outage duration.
 - 1. Notify Owner before partially or completely disabling system.
 - 2. Notify local fire service.
 - 3. Make notifications at least 24 hours in advance.
 - 4. Make temporary connections to maintain service in areas adjacent to work area.

3.3 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

- A. Perform work for removal and disposal of equipment and materials containing toxic substances regulated under the Federal Toxic Substances Control Act (TSCA) in accordance with applicable federal, state, and local regulations. Applicable equipment and materials include, but are not limited to:
 - 1. PCB-containing electrical equipment, including transformers, capacitors, and switches.
 - 2. PCB- and DEHP-containing lighting ballasts.
 - 3. Mercury-containing lamps and tubes, including fluorescent lamps, high intensity discharge (HID), arc lamps, ultra-violet, high pressure sodium, mercury vapor, ignitron tubes, neon, and incandescent.
- B. Remove, relocate, and extend existing installations to accommodate new construction.
- C. Remove abandoned wiring to source of supply.
- D. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- E. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.
- F. Disconnect and remove abandoned panelboards and distribution equipment.
- G. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories.
- H. Repair adjacent construction and finishes damaged during demolition and extension work.
- I. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.

3.4 CLEANING AND REPAIR

- A. See Division 01 - General Requirements.

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- B. Clean and repair existing materials and equipment that remain or that are to be reused.
- C. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers and provide closure plates for vacant positions. Provide typed circuit directory showing revised circuiting arrangement.
- D. Luminaires: Remove existing luminaires for cleaning. Use mild detergent to clean all exterior and interior surfaces; rinse with clean water and wipe dry. Replace lamps, ballasts and broken electrical parts.

END OF SECTION