

**ADDENDUM
NO. 5**

December 24, 2024

**Loy Norrix High School Mechanical Improvements
606 East Kilgore Rd
Kalamazoo, MI 49001**

General Trades and Elevator Bid Categories

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated September 16, 2024, by TowerPinkster. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 5-1 **and** TowerPinkster Addendum No. 05 dated December 16, 2024, consisting of 29 pages, **and** Bulletin No. 01, dated December 16, 2024, consisting of 27 pages.

A. SPECIFICATION SECTION 00 00 10 TITLE PAGE

1. Replace this section in its entirety with the attached.

B. SPECIFICATION SECTION 00 00 20 TABLE OF CONTENTS

1. Replace this section in its entirety with the attached.

C. SPECIFICATION SECTION 00 02 00 NOTICE TO BIDDERS

1. Replace this section in its entirety with the attached.

D. SPECIFICATION SECTION 00 31 00 BID FORM

1. Replace this section in its entirety with the attached.

E. SPECIFICATION SECTION 00 43 50 SUBCONTRACTORS AND PRODUCTS

1. Replace this section in its entirety with the attached.

F. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Replace this section in its entirety with the attached.

G. SPECIFICATION SECTION 01 21 00 CONTRACT ALLOWANCES

1. Replace this section in its entirety with the attached.

PROJECT: Kalamazoo Public Schools
Loy Norrix High School Mechanical Improvements
606 East Kilgore Rd
Kalamazoo, MI 49001

TSC PROJECT NO.: 224010.06

A/E PROJECT NO.: 21-807.00

OWNER: Kalamazoo Public Schools
600 West Vine Street
Kalamazoo, MI 49008

ARCHITECT/ENGINEER: TowerPinkster

DATED: September 16, 2024

PRE-BID CONFERENCE/SITE EXAMINATION: December 30, 2024, 2:00 PM
Virtually via Microsoft Teams

BIDS RECEIVED: January 21, 2025, 2:00 PM
Kalamazoo Public Schools Facilities Office
600 West Vine Street
Kalamazoo, MI 49008

BIDDERS' CONTACTS:

ARCHITECT/ENGINEER:
TowerPinkster
242 E. Kalamazoo Ave, Suite 200
Kalamazoo, MI 49007
Architect's Contact: Mike Galovan
Phone: 269-806-0244

CONSTRUCTION MANAGER:
The Skillman Corporation
8120 Moorsbridge Rd, Suite 101
Portage, MI 49024
Senior Project Manager: David Taylor
Phone: 269-908-9569

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END OF SECTION 00 00 20

SECTION 00 02 00 - NOTICE TO BIDDERS

NOTICE TO BIDDERS

Notice is hereby given that sealed bids will be received:

By: Kalamazoo Public Schools
600 West Vine Street
Kalamazoo, MI 49008

For: Loy Norrix High School Mechanical Improvements- Addendum No. 05 (General Trades and Elevator Bid Categories).
606 East Kilgore Rd
Kalamazoo, MI 49001

At: Kalamazoo Public Schools Facilities Office
600 West Vine Street
Kalamazoo, MI 49008

Until: January 21, 2025, at 2:00 pm (local time)

Bid Opening: Bids will be publicly opened and read aloud at approximately 2:00 pm (local time), at the Kalamazoo Public Schools Facilities Office, 600 West Vine Street, Kalamazoo, MI 49008.

All work for the complete construction of the Project will be under one or more prime contracts with the Owner based on bids received and on combinations awarded. The Construction Manager will manage the construction of the Project.

Construction shall be in full accordance with the Bidding Documents which are on file with the Owner and may be examined by prospective bidders at the following locations:

Office of the Construction Manager
The Skillman Corporation
8120 Moorsbridge Rd. Suite 101
Portage, MI 49024

The Skillman Plan Room
www.skillmanplanroom.com

Prime and Non-Prime Contract Bidders must place an order on www.skillmanplanroom.com to be able to download documents electronically or request printed documents. There is no cost for downloading the bidding documents. Bidders desiring printed documents shall pay for the cost of printing, shipping, and handling. Reprographic Services are provided by:

Kal-Blue, 914 East Vine Street, Kalamazoo, MI 49001 Phone 269-349-8681

A Pre-Bid Conference will be held Virtually Via Microsoft Teams link listed below on December 30, 2024, at 2:00 PM, local time. Attendance by bidders is optional, but recommended, in order to clarify or answer questions concerning the Drawings and Project Manual for the Project.

Microsoft Teams [Need help?](#)

[Join the meeting now](#)

Meeting ID: 257 025 134 914

Passcode: o5Ly9cn9

Dial in by phone

[+1 317-762-3960](tel:+13177623960), [537567059](tel:+1317537567059)# United States, Indianapolis

[Find a local number](#)

Phone conference ID: 537 567 059#

For organizers: [Meeting options](#) | [Reset dial-in PIN](#)

Bid security in the amount of five percent (5%) of the Bid must accompany each Bid in accordance with the Instructions to Bidders.

The successful Bidders will be required to furnish Performance and Payment Bonds for one hundred percent (100%) of their Contract amount prior to execution of Contracts.

Contractors submitting bids for the performance of any Work as specified in this building Project should make such Bids to **Kalamazoo Public Schools**. Contractors are advised that the Contract as finally entered with any successful Bidder shall be entered into with Kalamazoo Public Schools.

The Owner reserves the right to accept or reject any Bid (or combination of Bids) and to waive any irregularities in bidding. All Bids may be held for a period not to exceed **120** days before awarding contracts.

Kalamazoo Public Schools

By: Karen Jackson

END OF SECTION 00 02 00

CONTRACTOR'S BID FOR PUBLIC WORKS

Loy Norrix High School Mechanical Improvements
Kalamazoo Public Schools
Kalamazoo County

PART I

(To be completed for all bids)
(Please type or print)

BIDDER (firm) _____

Address _____ P.O. Box _____

City/State/Zip _____

Telephone Number _____ Email Address: _____

Person to contact regarding this Bid: _____

Pursuant to notices given, the undersigned offers to furnish labor and materials necessary to complete the construction work for:

Insert Bid Category No.(s) and Name(s)

of public works project, **Loy Norrix High School Mechanical Improvements**, in accordance with Plans and Specifications prepared by **TowerPinkster, 242 E. Kalamazoo Ave, Suite 200, Kalamazoo, MI 49007** as follows:

BASE BID

For the sum of _____
(sum in words)

_____ DOLLARS (\$) _____
(sum in figures)

The undersigned acknowledges receipt of the following Addenda:

Receipt of Addenda No.(s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (120) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (120) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO _____

Has visited the jobsite YES _____ NO _____

The Bidder must attach to this bid, the sworn and notarized affidavit (attached at the end of this Bid Form) disclosing any familial relationship between the Owner or an employee of the bidder and any member of the District's Board or the Superintendent of the District.

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent of the schedule can be met. _____ YES _____ NO

The Skillman Corporation’s diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation’s Projects.

Bidder has included: DBE: YES _____% NO _____
 MBE: YES _____% NO _____
 WBE: YES _____% NO _____
 VBE: YES _____% NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

ALTERNATE BIDS

A blank entry or an entry of “No Bid”, “N/A”, or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate “No Change”.

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – State the cost to provide Building Automation System Training

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

Alternate Bid No. 2 – State the cost to replace the Transformer Replacement

Change the Base Bid the sum of _____
(sum in words)
_____ DOLLARS (\$ _____) ADD
(sum in figures) DEDUCT

NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such sale.

OATH AND AFFIRMATION

I affirm under the penalties of perjury that the foregoing facts and information are true and correct to the best of my knowledge and belief.

Dated at _____ this _____ day of _____, 20____.

(Name of Organization)

By _____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)

) SS:

COUNTY OF _____)

_____ being duly sworn, deposes and says that

he is _____ of the above _____
(Title) (Name of Organization)

and that the statements contained in the foregoing Bid, certification and Affidavit are true and correct.

Subscribed and sworn to before me this _____ day of _____, 20 ____ .

Notary Public

My Commission Expires: _____

County of Residence: _____

PART II

(Complete sections I, II, and III for all state and local public works projects)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed?

Contract Amount	Class of Work	When Completed	Name and Address of Owner

2. What public works projects has your organization now in process of construction:

Contract Amount	Class of Work	When Completed	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why? _____

4. List references from private firms for which you have performed work.

SECTION III OATH AND AFFIRMATION

I hereby affirm under the penalties of perjury that the facts and information contained in the foregoing Bid for public works are true and correct to the best of my knowledge and belief.

IN TESTIMONY WHEREOF, The Bidder has hereunto set his hand this

_____ day of _____, 20_____.

Bidder:_____

IN TESTIMONY WHEREOF, The Bidder (a firm) have hereunto set their hands this

_____ day of _____, 20_____.

Firm Name: _____

By:_____

Individual names:_____

IN TESTIMONY WHEREOF, The Bidder (a corporation) has caused this proposal to be signed by its President and Secretary and affixed its corporate seal this _____ day of _____, 20 _____.

Name of Corporation: _____

President: _____

Secretary: _____

ACKNOWLEDGEMENT

STATE OF _____)

) SS:

COUNTY OF _____)

_____ being duly sworn, deposes and says that

he is _____ of the above _____
(Title) (Name of Organization)

and that the answers to the questions in the foregoing questionnaires and all statements therein contained are true and correct.

Subscribed and sworn to before me this _____ day of _____, 20 _____.

Notary Public

My Commission Expires: _____

County of Residence: _____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT
Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named company (the “Company”), pursuant to the compliance certification requirement provided in the **Kalamazoo Public School’s** Request For Proposal (the “RFP”), hereby certifies, represents, and warrants that the Company (which includes its officers, directors and employees) is not an “Iran Linked Business” within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the “Act”), and that in the event the Company is awarded a contract by the **Kalamazoo Public Schools** as a result of the aforementioned RFP, the Company is not and will not become an “Iran Linked Business” at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the **Kalamazoo Public School’s** investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date that it is determined that the person has submitted the false certification.

BIDDER:

By: _____
Its: _____

STATE OF MICHIGAN)
)ss.
COUNTY OF _____)

This instrument was acknowledged before me on the ____ day of _____, 20__, by _____.

_____, Notary Public
_____ County, Michigan
My Commission Expires: _____
Acting in the County of: _____

END OF SECTION 00 31 00

SECTION 00 43 50 - SUBCONTRACTORS AND PRODUCTS LIST

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The two (2) low responsive Bidders in each Bid Category shall furnish electronically, the following Subcontractors and Products List to the Construction Manager within **two (2) working days (48 hrs.) of bid opening, unless submitted with Bid.** The blanks appropriate to the Bid Category(ies) on which they bid shall be completed.
1. The Owner and Architect shall have the right to select any material or equipment named in the Specifications for any particular item where the Bidder either fails to list same or lists more than one name for the item in question.
 2. It is intended that this list will show the manufacturer and supplier of major items of work that will be subcontracted and to whom.

1.02 INSTRUCTIONS FOR SUBCONTRACTORS AND PRODUCTS LISTS

- A. Each Bidder shall submit a copy of his list of subcontractors and manufacturers of products and equipment proposed for work indicated as required above.
- B. The list shall be submitted on forms provided and shall be completely executed. "As Specified" or "With Equipment" type of terminology will not be accepted.
- C. Under "Subcontractor", insert the name of the firm which the Bidder proposes to have perform the respective work. If work will be done by the Prime Bidder and no subcontract will be awarded, state "By Own Forces".
- D. Submission does not constitute acceptance for use of listed manufacturers' products. Materials and subcontractors are subject to the provisions of the General Conditions and "Standard of Product Acceptability" and must be formally reviewed and adjudged acceptable by the Architect/Engineer.
- E. Engineer, Architect and Owner reserve the right to reject submissions of materials, work, or subcontractors that do not, in their opinion, meet the requirements of Drawings, Specifications or job conditions.
- F. Materials and subcontractors used for work on the Project shall be in accordance with accepted material list.
1. The list is intended to assure use of materials and vendors acceptably equivalent to those specified and is not a substitution sheet or complete listing of required materials or services.

2. Substitutions for listed items will not be allowed, except when termed acceptable, in writing by the Architect/Engineer, provided that substitution will result in a cost savings to the Owner , determined by the Owner to be a better product,or is made necessary due to unavailability of listed item. Unavailability shall be confirmed in writing by manufacturer named on accepted list.

1.03 CIVIL AND ARCHITECTURAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO. 01 GENERAL TRADES

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
01 51 80	Temporary Fire Protection			
01 52 10	Construction Aids and Temporary Enclosures			
01 52 60	Rubbish Container			
01 53 10	Fences (Temporary Security)			
01 53 20	Tree and Plant Protection			
01 53 30	Barricades			
01 55 00	Access Roads and Parking Areas			
01 56 20	Dust Control			
01 56 80	Erosion Control			
01 72 00	Field Engineering			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
02 41 19	Selective Demolition			
03 30 00	Cast-In-Place Concrete			
05 50 00	Metal Fabrications			
06 10 00	Rough Carpentry			
06 16 00	Sheathing			
06 41 16	Plastic-Laminate-Face Architectural Cabinets			
06 46 00	Wood Trim			
07 51 13	Built-up Asphalt Roofing			
07 62 00	Sheet Metal Flashing and Trim			
07 72 00	Roof Accessories			
07 84 13	Penetration Firestopping			
07 92 00	Joint Sealants			
08 11 13	Hollow Metal Doors and Frames			
08 14 16	Flush Wood Doors			
08 41 13	Aluminum-Framed Entrances and Storefronts			
08 71 00	Door Hardware			
08 80 00	Glazing			
08 91 19	Fixed Louvers			
10 51 13	Metal Lockers			
12 35 53	Laboratory Casework			
12 36 23	Plastic-Laminate-Clad Countertops			
12 36 53	Laboratory Countertops			
32 92 00	Turf and Grasses			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

BID CATEGORY NO. 02 MASONRY

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
04 20 00	Unit Masonry			
04 43 13	Adhered Stone Masonry Veneer			
07 92 00	Joint Sealants			
07 84 13	Penetration Firestopping			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

BID CATEGORY NO. 03 INTERIOR FINISHES

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
05 40 00	Cold-Formed Metal Framing			
07 92 00	Joint Sealants			
08 31 13	Access Doors and Frames			
09 22 16	Non-Structural Metal Framing			
09 26 13	Gypsum Veneer Plastering			
09 29 00	Gypsum Board			
09 51 13	Acoustical Panel Ceilings			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
09 91 23	Interior Painting			
09 96 00	High-Performance Coatings			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

BID CATEGORY NO. 04 FLOORING

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
07 92 00	Joint Sealants			
09 30 00	Tiling			
09 65 00	Resilient Flooring			
09 65 13	Resilient Base and Accessories			
09 66 23	Resinous Matrix Terrazzo Flooring			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
09 67 23	Resinous Flooring			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

1.04 MECHANICAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO. 05 MECHANICAL/PLUMBING

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If dual listing of manufacturers or subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice.

MECHANICAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
01 51 30	Temporary Heating, Ventilation and Cooling			
01 51 50	Temporary Water			
02 41 19	Selective Demolition			
07 84 13	Penetration Firestopping			
07 92 00	Joint Sealants			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
22 05 00	Common Work Results for Plumbing			
22 05 23	General Duty Valves for Plumbing Piping (2 & less)			
22 05 29	Hangers and Supports for Plumbing Piping and Equipment			
22 07 00	Plumbing Insulation			
22 11 16	Domestic Water Piping			
22 13 16	Sanitary Waste and Vent Piping			
22 13 19	Sanitary Waste Piping Specialties			
23 05 00	Common Work Results for HVAC			
23 05 13	Common Motor Requirements for HVAC Equipment			
23 05 16	Expansion Fittings and Loops for HVAC Piping			
23 05 19	Meters and Gages for HVAC Piping			
23 05 23	General Duty Valves for HVAC Piping			
23 05 29	Hangers and Supports for HVAC Piping and Equipment			
23 05 48	Vibration and Seismic Controls for HVAC Piping			
23 05 53	Identification for HVAC Piping and Equipment			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
23 05 93	Testing, Adjusting, and Balancing for HVAC			
23 07 00	HVAC Insulation			
23 08 00	Commissioning of HVAC			
23 09 00	Instrumentation and Control for HVAC			
23 21 13	Hydronic Piping			
23 21 23	Hydronic Pumps			
23 22 13	Steam and Condensate Heating Piping			
23 22 16	Steam and Condensate Piping Specialties			
23 22 23	Steam Condensate Pumps			
23 23 00	Refrigerant Piping			
23 25 00	HVAC Water Treatment			
23 31 13	Metal Ducts			
23 31 15	HVAC Air-Distribution System Cleaning			
23 33 00	Air Duct Accessories			
23 36 00	Air Terminal Units			
23 37 13	Diffusers, Registers, and Grilles			
23 37 23	HVAC Gravity Ventilators			
23 40 00	Antimicrobial Systems for HVAC			
23 57 00	Heat Exchangers for HVAC			

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
23 62 00	Packaged Compressor and Condenser Units			
23 73 13	Modular Indoor Central-Station Air-Handling Units			
23 74 13	Packaged, Outdoor, Central-Station Air-Handling			
23 81 26	Split System Air Conditioners			
23 82 16	Air Coils			
23 83 23	Unit Ventilators			
23 82 25	Vertical Unit Ventilators (Both Split and Self Contained)			
23 82 33	Convectors			
23 82 39	Unit Heaters			

Plumbing Fixtures:

Manufacturer:

a) _____

b) _____

c) _____

d) _____

e) _____

f) _____

g) _____

h) _____

i) _____

j) _____

k) _____

l) _____

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

1.05 ELECTRICAL WORK SUBCONTRACTORS AND PRODUCTS LIST

BID CATEGORY NO. 06 ELECTRICAL

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If dual listing of manufacturers or subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice.

ELECTRICAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
01 51 10	Temporary Electricity, Lighting, and Warning Systems			
02 41 19	Selective Demolition			

07 84 13	Penetration Firestopping			
07 92 00	Joint Sealants			
26 05 00	Common Work Results for Electrical			
26 05 13	Medium-Voltage Cables			
26 05 19	Low-Voltage Electrical Power Conductors and Cables			
26 05 26	Grounding and Bonding for Electrical Systems			
26 05 29	Hangers and Supports for Electrical Systems			
26 05 33	Raceways and Boxes for Electrical Systems			
26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling			
26 05 53	Identification for Electrical Systems			
26 05 73	Coordination Studies			
26 05 73	Short-Circuit Studies			
26 05 74	Overcurrent Protective Device Arc-Flash Study			
26 09 23	Lighting Control Devices			
26 09 43	Network Lighting Controls			
26 12 00	Medium-Voltage Transformers			

26 22 00	Low Voltage Transformers			
26 24 16	Panelboards			
26 27 26	Wiring Devices			
26 28 13	Fuses			
26 43 13	Surge Protection for Low-Voltage Electrical Power Circuits			
26 51 00	Interior Lighting			
26 56 00	Exterior Lighting			
27 05 00	Common Work Results for Communications			
27 05 26	Grounding and Bonding For Communications			
27 05 28	Pathways for Communications Systems			
27 05 53	Identification for Communications Systems			
27 15 13	Communications Copper Horizontal Cabling			
27 17 00	Testing, Identification and Administration of Balanced Twisted Pair Infrastructure			
27 26 26	IP Address Request Form			
27 41 16	Technology Equipment			
28 13 00	Access Control			
28 15 00	Access Control Hardware Devices			

28 31 00	Fire Detection and Alarm			
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Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

BID CATEGORY NO. 07 ELEVATOR MODERNIZATION

NAME OF BIDDER _____

The undersigned hereby submits the following Subcontractors and Products List which becomes a part of the undersigned Contract proposal. Subcontractor purchased material, equipment, and labor shall be under the direct management and control of the Prime Contractor. If a dual listing of manufacturers and subcontractors is herein made, it is understood the Architect/Engineer (not the Contractor) will select the manufacturer or subcontractor of his choice. State the XBE Designation.

CIVIL AND ARCHITECTURAL WORK

<u>Section</u>	<u>Description</u>	<u>\$\$\$</u>	<u>Subcontractor</u>	<u>Manufacturer</u>
01 21 00	Allowances			
01 52 10	Construction Aids and Temporary Enclosures			
02 41 19	Selective Demolition			
07 84 13	Penetration Firestopping			
07 92 00	Joint Sealants			
14 24 01	Hydraulic Elevator Modernization			

Name of Bidder:	Date:
Address:	
City/State/Zip:	
Telephone:	
By:	

END OF SECTION 00 43 50

SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Prime Contract, including amended General Conditions and other Division 1 Specification Sections, apply to Work of this Section.

1.02 SUMMARY

- A. The intent of this Section is to indicate the Work required by the Contractors and to provide information regarding the duties, responsibilities, and cooperation required by the Contractors, with similar requirements for the subcontractors and suppliers.
- B. Owners right to maintain current operations
- C. Occupancy requirements
- D. Work by Owner
- E. Permits, fees, and notices
- F. Labor and materials
- G. Verifications of existing dimensions
- H. Project security
- I. Coordination of work
- J. Time of commencement and completion
- K. Schedule of contract responsibilities

1.03 WORK UNDER SEPARATE CONTRACTS

- A. Prime Contracts are defined to include the following contracts described in the Schedule of Contract Responsibilities included hereinafter; and each is recognized to be a major part of the project, with Work to be performed concurrently and in close coordination with Work of other Prime Contracts.
- B. The "Contract Documents," as defined in the General Conditions, include "the Drawings." Although Drawings are grouped and identified by classification of the Work, Contractors shall be responsible for their Work as specified herein and as

indicated on the Drawings. Although the majority of the Drawings are "to scale," Contractors are directed to use indicated dimensions for determining material quantities and for other reasons. No additional monies will be allowed due to Contractors using "scaling instruments" to determine material quantities or for other reasons.

- C. Separate prime contracts will be awarded as per the "**Schedule of Contract Responsibilities**" (see Part 3 – Execution). Contractors shall include Work required by the Specifications and Drawings for each contract area defined in the Schedule.
- D. Work for the complete construction of the Project will be under multiple prime contracts with the Owner. The Construction Manager will manage the construction of the Project.
- E. Each Contractor shall be responsible for demolition and disposal of existing items relative to his Contract.

1.04 ADMINISTRATIVE RESPONSIBILITIES OF PRIME CONTRACTORS AND CM

- A. The Construction Manager shall be responsible for the maintenance of the Construction Schedule and management of every phase of the Work.
 - 1. Each Contractor shall read the Specifications and Drawings for other separate Contracts for fixed equipment and the like to be incorporated or attached or built in to the Work; and familiarize himself with the requirements and responsibilities of other Contracts to enable the required coordination and supervision.
 - 2. Each Contractor shall also familiarize himself with other items to be incorporated into the Work including equipment and Work by the Owner.
 - 3. Each Contractor shall cooperate with the Construction Manager in notifying him when the Work is at a stage to require the services of other Contractors and shall notify the Construction Manager in the event that such other Contractors do not carry out their responsibilities in connection with such notification.
- B. Contractors shall cooperate with and assist the Construction Manager in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other Contractors shall cooperate in getting their Work and the Work of their subcontractors completed according to the schedule as prepared and maintained by the Construction Manager. Each Contractor shall immediately notify the Construction Manager of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.
- C. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.

- D. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Construction Manager of circumstances which would adversely affect the proper flow or connection to such facilities.

1.05 PRIME CONTRACTORS USE OF PREMISES

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

1.06 OWNERS RIGHT TO MAINTAIN OPERATIONS

- A. During the course of this Project, normal and customary functions and operations must be maintained. The Contract Documents are intended to define a strict separation between the school activities of students and staff from the activities of the construction project.
- B. The Construction Manager, Architect, and Owner will not tolerate any visible or audible actions initiated or responded to by any employees of Contractors on this Project toward any students, teachers, or staff members at the school system. Violators shall be promptly removed from the site.
- C. The Owner intends to instruct students, teachers, and staff to refrain from communications with Contractor's personnel working on this Project. All communication with Owner and staff shall be through the Construction Manager.

- D. Contractors must expend their best effort toward protection of the health, safety, and welfare of occupants on the Owner's property during the course of Work on this Project.
- E. Contractors and Subcontractors shall be subject to such rules and regulations for the conduct of the Work as the Owner may establish. Employees shall be properly and completely clothed while working. Bare torsos, legs and feet will not be allowed. Possession or consumption of alcoholic beverages or drugs, tobacco or other noxious behavior on the site is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

1.07 OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: The Owner will occupy the site and existing building during the entire construction period. Cooperate with the Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with the Owner's operations.
- B. Partial Owner Occupancy: The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
 - 1. The Construction Manager will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.
 - 2. Party which obtained general building permit shall obtain a Certificate of Occupancy from local building officials prior to Owner occupancy.
 - 3. Prior to partial Owner occupancy, mechanical and electrical systems shall be fully operational. Required inspections and tests shall have been successfully completed. Upon occupancy, the Owner will operate and maintain mechanical and electrical systems serving occupied portions of the building.
 - 4. Upon occupancy, the Owner will assume responsibility for maintenance and custodial service for occupied portions of the building.

1.08 WORK BY OWNER

- A. The Owner intends to complete the following items of Work outside the provisions of these Contract Documents. Contractors shall not restrict or interfere with the Owner's right to the Project to accomplish this Work.
 - 1. Equipment and furniture except as scheduled and specified under Divisions 11 and 12 and shown on the Drawings.
 - 2. Items which may be deleted from Contracts for Work as required by the Contract Documents.
 - 3. Existing school maintenance work.

4. The purchase and supplying of certain materials as noted in the Project Manual.
5. The Owner, under separate contract, shall provide removal of identified asbestos containing materials from the existing structure. The asbestos report is available through the Construction Manager upon request.
6. (List other items as may be applicable).

1.09 PERMITS, FEES, AND NOTICES

- A. The Construction Manager will secure the general building permit for the Owner. Each Contractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of the Contractors Work. Fees to relocate utilities on Owner's property shall be included in the bid of the Contractor doing the relocation.
 1. The Owner shall pay for the cost of the Building Permit.
 2. State filing fees for plan approval are the responsibility of the Owner and will be paid by the Owner.
- B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.
- C. Shutdowns of existing systems shall be limited to minimum time required and scheduled with other involved parties. Provide 2 days written notice of shutdown to Construction Manager and Owner.
- D. Inspections of installed work shall be performed by the governing authority as arranged for by the Contractor. Work shall not be covered until approved.
- E. Each Contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Construction Manager in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Construction Manager, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.10 LABOR AND MATERIALS

- A. Unless otherwise specifically noted, 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 the proper execution and completion of his Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

- B. Each Contractor shall enforce strict discipline and good order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.
- C. Prime Contractors must furnish a letter to the Construction Manager, stating that Contractor shall not assign any of its employees, agents or other individuals to perform any services in the District's facilities or program sites if that individual:
 - 1. Is listed on the Michigan Sex Offender Registry, www.mipsor.state.mi.us.
 - 2. Is listed on the Federal Sex Offender Registry www.nsopw.gov.
 - 3. Has not passed a 5-50 drug screen, testing negative for the following drugs:
 - a. Amphetamines
 - b. Methamphetamines
 - c. Cocaine
 - d. Codeine
 - e. Methadone
 - f. Morphine
 - g. Phencyclidine (PCP)
 - h. Marijuana
- D. ID Stickers will be issued by The Skillman Corporation upon receipt of verification from the Contractor that the employee/subcontractor employee or independent contractor has a satisfactory record to work on the Project. Stickers will be numbered and numbers assigned to each worker to be worn on their hardhat. It is the Contractor's responsibility to maintain a record of contractor's name assigned each number and provide to The Construction Manager upon request.
- E. Consistent with Michigan law, possession or consumption of drugs on school property will promptly be reported to the local police. Consumption of alcoholic beverages or tobacco or other noxious behavior on school owned property is strictly prohibited. Violators shall be promptly removed from the site. Smoking is not permitted on school property or within school buildings.

1.11 CUTTING AND PATCHING

- A. Refer to Section 01 73 10 – Cutting and Patching, for provisions on this subject.

1.12 VERIFICATIONS OF EXISTING DIMENSIONS

- A. When verification of existing dimensions is required, the Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for the procurement of the field information.

1.13 PROJECT SECURITY

- A. Each Prime Contractor shall take all reasonable precautions to prevent injury, damage or loss to people and property in, on and adjacent to the project. This shall

include not only their own work or property but that of other contractors and the Owner.

- B. If deemed necessary by The Construction Manager a project wide security program may be developed for the purpose of preventing damage or loss at the project site or property adjacent thereto. Once accepted by the Owner, contractors shall comply.

1.14 SCHEDULE OF CONTRACT RESPONSIBILITIES - SCOPE

- A. Contractors shall submit their proposals based on the work included under each contract area as listed herein. Include Work necessary for a complete project, as shown on the Drawings and called for in the Specifications.
- B. Questions concerning the phasing or "Schedule of Contract Responsibilities" should be directed to the Construction Manager, who will be the interpreter and be responsible for this Schedule of Contract Responsibilities and Contract Breakdown, prior to submitting proposals and during construction.
- C. The requirements of Division 1 are a part of the Work of each and every contract area. The Contractor for any one contract area shall be familiar with the Work and requirements of all other contract areas.
- D. Certain Specification Sections describe Work to be performed under several contract areas. (Example: 06 10 00 - Rough Carpentry.) Provide Work of this nature as required for each contract area whether or not enumerated in the Schedule of Contract Responsibilities.
- E. The following contract areas are broken down by Specifications Section conforming basically to the CSI format.
- F. The Drawings and Specifications as furnished for each of the Contracts is for the convenience of the Contractor in preparing a proposal for this Project. However, each Contractor is responsible to review the complete set of Drawings and Specifications to assure that Work required to be installed to complete his phase of the Work is included in his proposal. This "Schedule of Contract Responsibilities" is a definition of the work as it is to be bid in separate contracts. Where a specific item of Work is not defined, but is normally inherent to a trade, or is included in the scope of the applicable technical revision, it will be the responsibility of that Contractor to include the Work in his proposal.
- G. This "Schedule of Contract Responsibilities" is to aid each Contractor in defining the Scope of Work to be included in his proposal. However, omissions from this "Schedule of Responsibilities" do not relieve the Contractor from including in his proposal that Work which will be required to complete his Contract. Each Contractor should read the "Schedule of Contract Responsibilities" completely to familiarize himself with the Work of other Contractors that may have Work in

adjacent areas and to coordinate the interfacing problems that may occur as the work is assembled and constructed.

- H. Where specific Work is to be completed under a particular phase of the Project and the Work is wholly or partially completed by other trades because of the type of work involved or jurisdictional trade agreements, the Contractor will be responsible to subcontract the Work as necessary to complete the Work included in his Contract. No delay in the Work will be allowed due to the failure of the Contractor to subcontract related work required by jurisdictional trade agreements.

1.15 COORDINATION OF WORK

- A. Each Contractor is responsible to coordinate his Work with the Work of other trades and other Contractors and requirements of the school system. The Contractor must make space allowances for Work of other Contractors, provide necessary openings where indicated or implied by the Drawings and Specifications. Each Contractor is responsible to protect his own Work.

1.16 TIME OF COMMENCEMENT AND COMPLETION

- A. The Contractor shall commence work within ten (10) days after being notified in writing to proceed and shall complete the Work within the time limitations established in the Form of Agreement.
 - 1. It is anticipated that construction will start within **17** calendar days after receipt of bids.
 - 2. Construction shall be complete within **560** consecutive calendar days, or earlier, after Notice to Proceed.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 SCHEDULE OF CONTRACT RESPONSIBILITIES

3.02 GENERAL REQUIREMENTS

- A. PROVIDED BY OWNER THROUGH THE CONSTRUCTION MANAGER
 - Section 01 32 00 Schedules and Reports
 - Section 01 45 00S Masonry Inspection Report
 - Section 01 45 10 Testing Laboratory Services
 - Section 01 51 60 Temporary Sanitary Facilities
 - Section 01 52 60 Rubbish Container
 - Section 01 53 10 Fences (Temporary Security)
 - Section 01 57 60 Project Signs
 - Section 01 59 10 Project Office
 - Section 01 71 50 Final Cleaning

B. PROVIDED BY ALL CONTRACTORS AS APPLICABLE

Section	01 12 00	Multiple Contract Summary
Section	01 2 300	Alternates
Section	01 25 00	Contract Modification Procedures
Section	01 28 00	Schedule of Values
Section	01 29 00	Applications for Payment
Section	01 31 00	Project Meetings
Section	01 32 00	Schedules and Reports
Section	01 33 00	Submittal Procedures
Section	01 45 10	Testing Laboratory Services (Paragraph 1.05)
Section	01 50 50	Temporary Facilities and Controls
Section	01 54 60	Environment Protection
Section	01 54 80	Utility Protection
Section	01 56 30	Water Control
Section	01 56 90	Housekeeping & Safety
Section	01 59 20	Offices and Sheds
Section	01 60 00	Product Requirements
Section	01 72 50	Work Layout
Section	01 73 10	Cutting and Patching
Section	01 77 00	Contract Closeout

All Contractors shall provide their Superintendents with radios capable of handling multiple channels and compatible with radios used by the Construction Manager.

Autodesk Build is replacing **PlanGrid**. **Autodesk Build** does not require users to purchase a license. **Contractors** will be invited to the project and required to use this tool. **Autodesk Build** will be used as the **Current Set** and **As-Built Record Drawings**. Additionally, it will be used to track **Issues** for **Safety, QA/QC, Non-Compliance Issues, Work Completion List** and **Punch List**.

C. PROVIDED BY DESIGNATED CONTRACTORS

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Containers
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 72 00	Field Engineering

3.03 **BID CATEGORIES**

A. **BID CATEGORY NO. 1 – General Trades**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 80	Temporary Fire Protection
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	01 52 60	Rubbish Container
Section	01 53 10	Fences (Temporary Security)
Section	01 53 20	Tree and Plant Protection
Section	01 53 30	Barricades
Section	01 55 00	Access Roads and Parking Areas
Section	01 56 20	Dust Control
Section	01 56 80	Erosion Control
Section	01 72 00	Field Engineering
Section	02 41 19	Selective Demolition
Section	03 30 00	Cast-In-Place Concrete
Section	05 50 00	Metal Fabrications
Section	06 10 00	Rough Carpentry
Section	06 16 00	Sheathing
Section	06 41 16	Plastic-Laminate-Face Architectural Cabinets
Section	06 46 00	Wood Trim
Section	07 51 13	Built-up Asphalt Roofing
Section	07 62 00	Sheet Metal Flashing and Trim
Section	07 72 00	Roof Accessories
Section	07 84 13	Penetration Firestopping
Section	07 92 00	Joint Sealants
Section	08 11 13	Hollow Metal Doors and Frames
Section	08 14 16	Flush Wood Doors
Section	08 41 13	Aluminum-Framed Entrances and Storefronts
Section	08 71 00	Door Hardware
Section	08 80 00	Glazing
Section	08 91 19	Fixed Louvers
Section	10 51 13	Metal Lockers
Section	12 35 53	Laboratory Casework
Section	12 36 23	Plastic-Laminate-Clad Countertops
Section	12 36 53	Laboratory Countertops
Section	32 92 00	Turf and Grasses

B. **BID CATEGORY NO. 2 - Masonry**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	04 20 00	Unit Masonry
Section	04 43 13	Adhered Stone Masonry Veneer
Section	07 84 13	Penetration Firestopping
Section	07 92 00	Joint Sealants

C. **BID CATEGORY NO. 3 – Interior Finishes**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	05 40 00	Cold-Formed Metal Framing
Section	07 92 00	Joint Sealants
Section	08 31 13	Access Doors and Frames
Section	09 22 16	Non-Structural Metal Framing
Section	09 26 13	Gypsum Veneer Plastering
Section	09 29 00	Gypsum Board
Section	09 51 13	Acoustical Panel Ceilings
Section	09 91 23	Interior Painting
Section	09 96 00	High-Performance Coatings

D. **BID CATEGORY NO. 4 – Flooring**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	07 92 00	Joint Sealants
Section	09 30 00	Tiling
Section	09 65 00	Resilient Flooring
Section	09 65 13	Resilient Base and Accessories
Section	09 66 23	Resinous Matrix Terrazzo Flooring
Section	09 67 23	Resinous Flooring

E. **BID CATEGORY NO. 5 – Mechanical/Plumbing**

General requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 30	Temporary Heating, Ventilation and Cooling
Section	01 51 50	Temporary Water
Section	02 41 19	Selective Demolition
Section	07 84 13	Penetration Firestopping
Section	07 92 00	Joint Sealants
Section	22 05 00	Common Work Results for Plumbing
Section	22 05 23	General Duty Valves for Plumbing Piping (2 & less)
Section	22 05 29	Hangers and Supports for Plumbing Piping and Equipment
Section	22 07 00	Plumbing Insulation
Section	22 11 16	Domestic Water Piping
Section	22 13 16	Sanitary Waste and Vent Piping
Section	22 13 19	Sanitary Waste Piping Specialties
Section	23 05 00	Common Work Results for HVAC
Section	23 05 13	Common Motor Requirements for HVAC Equipment
Section	23 05 16	Expansion Fittings and Loops for HVAC Piping
Section	23 05 19	Meters and Gages for HVAC Piping

Section	23 05 23	General Duty Valves for HVAC Piping
Section	23 05 29	Hangers and Supports for HVAC Piping and Equipment
Section	23 05 48	Vibration and Seismic Controls for HVAC Piping and Equipment
Section	23 05 53	Identification for HVAC Piping and Equipment
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Section	23 36 00	Air Terminal Units
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Section	23 37 23	HVAC Gravity Ventilators
Section	23 40 00	Antimicrobial Systems for HVAC
Section	23 57 00	Heat Exchangers for HVAC
Section	23 62 00	Packaged Compressor and Condenser Units
Section	23 73 13	Modular Indoor Central-Station Air-Handling Units
Section	23 74 13	Packaged, Outdoor, Central-Station Air-Handling Units
Section	23 81 26	Split System Air Conditioners
Section	23 82 16	Air Coils
Section	23 83 23	Unit Ventilators
Section	23 82 25	Vertical Unit Ventilators (Both Split and Self Contained)
Section	23 82 33	Convectors
Section	23 82 39	Unit Heaters

F. **BID CATEGORY NO. 6 - Electrical**

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 51 10	Temporary Electricity, Lighting and Warning Systems
Section	02 41 19	Selective Demolition
Section	07 84 13	Penetration Firestopping
Section	07 92 00	Joint Sealants

Section	26 05 00	Common Work Results for Electrical
Section	26 05 13	Medium-Voltage Cables
Section	26 05 19	Low-Voltage Electrical Power Conductors and Cables
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Section	26 05 44	Sleeves and Sleeve Seals for Electrical Raceways and Cabling
Section	26 05 53	Identification for Electrical Systems
Section	26 05 73	Coordination Studies
Section	26 05 73	Short-Circuit Studies
Section	26 05 74	Overcurrent Protective Device Arc-Flash Study
Section	26 09 23	Lighting Control Devices
Section	26 09 43	Network Lighting Controls
Section	26 12 00	Medium-Voltage Transformers
Section	26 22 00	Low Voltage Transformers
Section	26 24 16	Panelboards
Section	26 27 26	Wiring Devices
Section	26 28 13	Fuses
Section	26 43 13	Surge Protection for Low-Voltage Electrical Power Circuits
Section	26 51 00	Interior Lighting
Section	26 56 00	Exterior Lighting
Section	27 05 00	Common Work Results for Communications
Section	27 05 26	Grounding and Bonding for Communications Systems
Section	27 05 28	Pathways for Communications Systems
Section	27 05 53	Identification for Communications Systems
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Section	27 17 00	Testing, Identification and Administration of Balanced Twisted Pair Infrastructure
Section	27 26 26	IP Address Request Form
Section	27 41 16	Technology Equipment
Section	28 13 00	Access Control
Section	28 15 00	Access Control Hardware Devices
Section	28 31 00	Fire Detection and Alarm

G. BID CATEGORY NO. 07 - Elevator Modernization

General Requirements in Paragraph 3.02.B above.

Section	01 21 00	Allowances
Section	01 52 10	Construction Aids and Temporary Enclosures
Section	02 41 19	Selective Demolition
Section	07 84 13	Penetration Firestopping
Section	07 92 00	Joint Sealants
Section	14 24 01	Hydraulic Elevator Modernization

END OF SECTION 01 12 00

SECTION 01 21 00 – ALLOWANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 REQUIREMENTS INCLUDED

- A. The Specifications contain Allowances for particular items, methods of construction, quantities of materials, labor for certain items and these stated Allowances shall be included in the total lump sum bid price.
 - 1. Should the final amounts as determined from actual costs vary from these stated Allowances, the Contract price will be adjusted by Change Order as stated in the Conditions of the Contract.
 - 2. Under no circumstances shall work exceeding the stated Allowance amounts, proceed without a properly executed Change Order.
- B. A "Schedule of Allowances" showing amounts included in each prime Contract Sum, is included at the end of this Section.
- C. Product/Materials Allowance: At the earliest feasible date after award of Contract, advise the Architect and Construction Manager of scheduled date when final selection and purchase of each product or system described by each Allowance must be accomplished in order to avoid delays in performance of the Work.
 - 1. As requested by the Architect, obtain and submit proposals for the work of each Allowance for use in making final selection; include recommendations for selection which are relevant to the proper performance of the Work.
 - 2. Purchase products and systems as specifically selected (in writing) by the Architect.
 - 3. Submit proposals and recommendations, for purchase of products or systems of Allowances, in form specified for Change Orders.
 - 4. When requested, submit a substantiated survey of quantities of materials, as shown in the "Schedule of Values", revised where necessary, and corresponding with Change Order quantities.
 - 5. Amount of Allowance includes:
 - a. Net cost of product
 - b. Delivery to the site
 - c. Applicable taxes
 - 6. In addition to amount of Allowance, include in Bid, for inclusion in Contract Sum, Contractor's costs for:
 - a. Handling at site, including unloading, uncrating and storage
 - b. Protection from elements, from damage
 - c. Labor, installation and finishing

- d. Other expenses (e.g., testing, adjusting and balancing) required to complete installation
 - e. Overhead and profit
- D. Contingency Allowance: Contingency allowance shall be used only as directed for Owner's purposes. Proposal shall be submitted by Contractor for work requested in format similar to that required for Change Orders. Compensation to the Contractor for work requested utilizing this Allowance shall be for only Contractor's costs as defined by Paragraph 7.3.7 of the General Conditions, except no compensation shall be allowed for overhead and profit. At time of Project closeout, unused amounts remaining in contingency allowance shall be credited to Owner by Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 PRODUCT ALLOWANCE

A.

3.02 CONTINGENCY ALLOWANCES

Allow a lump sum additional work required but not indicated on Drawings or reasonably anticipated.

A.	Bid Category No. 01	General Trades	\$20,000
B.	Bid Category No. 02	Masonry	\$5,000
C.	Bid Category No. 03	Interior Finishes	\$10,000
D.	Bid Category No. 04	Flooring	\$10,000
E.	Bid Category No. 05	Mechanical/Plumbing	\$30,000
F.	Bid Category No. 06	Electrical	\$20,000
G.	Bid Category No. 07	Elevator Modernization	\$20,000

END OF SECTION 01 21 00

ADDENDUM NO. 5

DATE OF ISSUANCE:	December 20, 2024
PROJECT:	Loy Norrix High School Mechanical Improvements 606 East Kilgore Road Kalamazoo, MI 49001
OWNER:	Kalamazoo Public Schools
ARCHITECT'S PROJECT NO.:	21-807.00
ORIGINAL BID ISSUE DATE:	September 16, 2024

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **2** pages of text and the following documents:

- Bidding Documents: **None**
- Contract Conditions: **None**
- Specification Sections: **00 0110, 14 2401,**
- Drawings: **G 100, G 101, S 002, S 202J, S 202K, A 325, A 326, I 401**

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.

CHANGES TO SPECIFICATIONS

ADD-5 Item No. S-1 - Updated Table of Contents - Hydraulic Elevator Modernization Specification

Refer to updated Table of Contents for added Specification Section:

14 2401 HYDRAULIC ELEVATOR MODERNIZATION

ADD-5 Item No. S-2 - Added Hydraulic Elevator Modernization Specification

Refer to added Specification Section: 14 2401 HYDRAULIC ELEVATOR MODERNIZATION

CHANGES TO DRAWINGS

ADD-5 Item No. D-1 - Add Beam Bearing on CMU Typical Detail

Detail added to Sheet S 002.

ADD-5 Item No. D-2 - Add Elevator Shaft Beam [Elevator No.1 and No.2]

W8x10 beam added to top of each elevator shaft for temporary use during construction. Refer to Sheet S 202J and S 202K.

ADD-5 Item No. D-3 - ELEVATOR MODERNIZATION WORK

Refer to Issued Drawings: A 325 and A 326. Indicated elevators shall be modernized as per elevator modernization spec [14 2401] and as per drawings A 325, A 326, and I 401.

END OF ADDENDUM.

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Refer to Construction Manager's Project Manual issued by The Skillman Corporation for additional procurement, contracting, and general requirements

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- 01 7823 - OPERATION AND MAINTENANCE DATA
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**PROJECT NO. 21807.00
LOY NORRIX HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT
KALAMAZOO PUBLIC SCHOOLS**

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ADDENDUM #5 12/20/2024

DIVISION 32 — EXTERIOR IMPROVEMENTS

32 9200 - TURF AND GRASSES (sf0)

14-2401 Hydraulic Passenger Elevator Modernization

Part 1 General:

1.1 Description:

- A. This Specification is intended to contain the modernization of two [2] in-ground hydraulic passenger elevators. They shall be modernized and converted into two [2] above ground, twin post systems, which utilize the existing hoistway dimensions and machine spaces.
- B. The existing elevators shall be removed in their entirety by the elevator contractor. All work will be performed in a professional manner and is to include all labor, material, shipping, taxes, carting, and delivery fees as specified herein.
- C. Provide base pricing to supply complete modernization with new; controllers, power units, door operator(s), wiring, elevator cab enclosures, car door tracks, hoistway door tracks, hoistway doors, entrance frames [elevator #2], signal fixtures and all other related equipment to complete the modernization.
- D. Modernization of two [2] hydraulic passenger elevators. The elevator contractor shall field verify all items listed herein and be required to make any corrections or adjustments required to complete the scope of work.
 - a. Elevator 1: [E1]
 - i. State Serial Number: 9345
 - ii. Capacity: 3,000 lbs.
 - iii. Stops: 2 [2 Front – 0 Rear]
 - iv. Openings: 1
 - v. Door Size: 42" W x 84"
 - vi. Door Type: Left Hand – 2 Speed
 - vii. Travel: 11'-5"
 - viii. Speed: Maintain Contract Speed +/- 15%
 - ix. Clear Hoistway: 6'-9" W x 6'-10" D
 - x. Power Requirements: Field Verify
 - b. Elevator 2: [E2]
 - i. State Serial Number: 14511
 - ii. Capacity: 3,000 lbs.
 - iii. Stops: 2 [2 Front – 0 Rear]
 - iv. Openings: 1
 - v. Door Size: 44" W x 84"
 - vi. Door Type: Center Opening – Single Speed
 - vii. Travel: 13'-3"
 - viii. Speed: Maintain Contract Speed +/- 15%
 - ix. Clear Hoistway: 8'-4" W x 8'-6" D
 - x. Power Requirements: Field Verify
- E. Provide all engineering, equipment, labor, and permits required to satisfactorily complete elevator modernization required by bid documents. Per ASME A17.1 Safety Code for Elevators

and Escalators – 2016, Michigan Elevator Rules and Regulations – 2016, and all other codes applicable of the AHJ.

- F. Permits shall be applied through the State of Michigan Elevator Safety Division. Permits shall be submitted along with a letter stating each elevator to be a modernization, due to existing on-site conditions which cannot be changed or altered.
- G. Existing machine spaces and locations shall be retained for E1 and E2.
- H. Provide all required staging, hoisting, cartage, and movement of new equipment, reused equipment, or removal of existing equipment from job site. Removal and disposal of equipment from site shall be by elevator contractor.
- I. Unless specifically identified as “Reuse,” “Retain,” or “Refurbish,” provide new equipment.
- J. Elevator contractor to provide temporary hoistway, pit, and machine room barricades as required for workspace. GC to provide permanent OSHA approved barricades of the elevator entrances.

1.2 Quality Assurance:

- A. All work will be performed in accordance with the latest revised edition [as of the date bids are taken] of the American Society of Mechanical Engineers Safety Code for Elevators and Escalators [ASME A17.1-2016], the Michigan Elevator Rules and Regulations – 2016 and all other codes of the Authority Having Jurisdiction [AHJ.] These standards are to include the National Electrical Code, the National Fire Protection Association and all state and local codes as may be applicable.

1.3 Submittals:

- A. Shop Drawings: To be provided within 45 days, from date of award, unless otherwise authorized by the owners. The elevator contractor will prepare drawings for all applicable equipment to be replaced. These drawings will be approved by Owner or Owners Representative prior to proceeding with fabrication and modernization of the above listed elevator. Kalamazoo Public Schools can waive drawings at their discretion.
- B. Accuracy of the submittal drawings is the responsibility of the elevator contractor, to be reviewed with the owner’s representative. This time shall be incorporated in the bid pricing.

1.4 Permits, Taxes and Licenses:

- A. All applicable sales and use taxes, permit fees and licenses, at the date bids are taken, will be paid for by the elevator contractor. These must be included in the proposed base price.

1.5 Timeline Required for Entire Project:

- A. Work may begin as early as June 15th and must be 100% complete and accepted by Kalamazoo Public Schools and owner’s representative by August 15th, unless otherwise authorized by the owner.

Part 2 Equipment Dismantle and Replacement:

2.1 Dismantle of E1 and E2:

- A. Elevator 1 and 2 shall both be dismantled and removed from the hoistway in their entirety.
- B. Dismantle shall include but is not limited to; Controllers, Pump Units, Wiring, Conduit, Piping, Elevator Cab, Car Doors, Car Door Tracks, Sling, Platform, Guide Rails, Hoistway Doors [elevator #2], Hoistway Door Tracks, Entrance Frames, Entrance Sills and Plunger / Piston.
- C. Elevator Contractor shall remove and dispose of all elevator equipment and hydraulic oil from E1 and E2.
- D. The existing in-ground cylinder and casing shall remain in place as to not undermine pit floor or pit foundations.
- E. The elevator contractor shall remove plunger / piston from inside the cylinder wall. Once piston is removed from the cylinder, the remaining exposed cylinder shall be cut flush with the pit channel or pit floor, to allow for installation of new equipment.
- F. The in-ground cylinder shall have any remaining hydraulic oil pumped out and removed from the cylinder. Once oil is removed from the cylinder, elevator contractor shall install a welded cap over the in-ground cylinder wall.
- G. The existing oil lines shall have the oil removed, be dismantled and disposed of by elevator contractor.
- H. Elevator #2 - Existing entrance frames and sills shall be removed from the elevator hoistway. General Contractor [GC] shall supply sub-contractor to saw cut front concrete walls of hoistway to allow for entrance frame and related door equipment removal. The elevator contractor shall be on site to assist and remove hoistway doors and entrance frames from hoistway wall.
- I. Elevator contractor shall coordinate with GC to supply OSHA approved barricades at each hoistway landing upon removal of equipment.

1.1 Controller Equipment to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Approved controller manufactures shall be; Virginia Controls, GAL, or SmartRise.
- B. The controller shall be non-proprietary and not require any additional hand-held service tools to make adjustments or troubleshooting. All programming of controller shall be from on board diagnostics. Controllers shall be built for existing elevator configuration except for E2 updated capacity. Lockout passwords are not permitted unless authorized by the Owner.
- C. Elevator controllers shall be designed for proper code requirements of the AHJ.
- D. Provide new solid-state microprocessor controllers with incorporated selector as supplied by elevator controller manufacturer. Controllers shall be equipped with emergency battery lowering.
- E. Provide new solid-state / soft start motor starter contacts. Contactor and motor shall be rated for existing power supply voltage and 80 starts per hour capacity. New dedicated

disconnects and feed wires shall be provided by the GC. Elevator main line power disconnects shall have auxiliary contacts sized for load.

- F. Provide new solid-state selector, leveling and landing system.
- G. Provide new machine room and hoistway wiring from controller to elevator, (see wiring). This shall include new travel cables and hoistway wiring cables.

1.2 Signal Fixtures to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Approved Signal Fixture Manufacturers shall be; Innovation, Vantage, or MAD.
- B. Supply new Car Operating Panel (COP) and Hall Stations as required per code. COP and hall stations shall be supplied with vandal resistant buttons and key switches. COP and Hall Stations shall be Stainless Steel #4.
- C. Provide a new Car Operating Panel (COP) configured for existing layout of elevator system to meet all applicable codes. The new COP shall be designed to fit into new cab return wall and located with proper AFF code requirements.
- D. COP shall have a key FOB installed onto face plate. FOB to be supplied by security contractor. Installation and wiring of FOB onto COP shall be by the elevator contractor. Fire service Phase II shall not be affected by the key FOB. The FOB shall be rendered inactive upon activation of Fire Service Phase II.
- E. Supply new surface mounted hall stations at each landing. Incorporate code required key switches, push buttons and communication devices as required per code at egress and terminal landings.
- F. Required key switches and push buttons shall be incorporated into a single hall station device.
- G. Hall stations shall be incorporated with a key FOB supplied by security contractor. FOB shall be mounted adjacent to hall station by elevator contractor. Wiring of key FOB to push button shall be by elevator contractor and included in the base bid. Push buttons at each landing shall be rendered inoperative until FOB has been activated.
- H. Provide ADA hands free phone in COP. Phone line / VoIP lines into machine spaces for phone, shall be by others.
- I. Provide new emergency car lighting as required on COP.
- J. Fire Service Phase I & Phase II and all key switches to meet code of the AHJ.
- K. Provide new car traveling lanterns on return wall of elevator.

1.3 Elevator Cab – Sling Equipment to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Approved Elevator Cab and Sling Manufacturers shall be; Canton Elevator, Schumacher Elevator, Alliance Elevator, IDEC, or Columbia Elevator. Approved Elevator Car and Hoistway Door tracks shall be; GAL for MOVFR II Door Operators.

- B. A new sling, buffers springs and elevator cab shall be supplied by the elevator contractor. Cab walls to be of steel construction, with black baked enamel base finish. Cab walls shall have removable, vertically mounted, hanging plastic laminate panels to be selected by architect on all non-entrance wall. Cab shall have new handrails on all non-entry walls. Ceiling to be suspended aluminum T-type with diffuser panels.
- C. The front wall and car door of elevators shall be Stainless Steel #4. This shall include return wall, and transom. New COP to be integrated into elevator cab return wall. Provide new car door, tracks, hangers, rollers and gibs as required for smooth operation of elevator door system.
- D. Provide new Door Operator designed for existing size and type of doors (see door operator equipment).
- E. Remove and replace existing sling and platform. New subfloor shall be Marine Grade Plywood. Finished flooring inside elevator cab shall be by others. Supply new aluminum elevator cab sill.
- F. New swivel guide shoes and inserts shall be incorporated into the new sling of elevator systems.
- G. New twin post, above ground cylinders, shall be supplied and incorporated into the design of new sling and elevator cab, to allow for onsite conditions. New guide rails shall be installed and relocated as required to accommodate above ground systems. New rail bracket inserts shall be supplied to the GC by elevator contractor, if existing rail inserts are not able to be retained. Time on site to coordinate rail reaction forces on hoistway walls shall be included in base bid.
- H. The elevator contractor shall supply new pit floor reactions for the GC.
- I. Elevator 2 shall have existing platform size and capacity increased to utilize unused space of existing elevator hoistway.
 - a. Size of existing E2 platform depth shall increase approximately 1'-0" in depth. The new platform shall be built to code with a 2" running clearance to the bulk head around existing conduit as outline below. New Capacity shall be calculated per ASME A17.1 standards for new platform size. New motor shall be sized for updated capacity.
 - b. Existing conduit in hoistway of E2, that does not pertain to the elevator, shall remain. A bulkhead shall be built around existing conduit by GC. Updated platform size for E2 shall be coordinated with GC prior to final approval drawings, to ensure accuracy of increased platform size in relation to drywall bulkhead around conduit.
 - c. Cost to increase platform size and capacity shall be included in base bid.
- J. Provide finishes guide to owner for plastic laminate and baked enamel color selection.

1.4 Hoistway Doors and Track(S) Equipment to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Approved Hoistway Door Manufacturers shall be; Canton, IDEC, or Columbia Elevator. Approved Hoistway Door tracks shall be GAL.

- B. Elevator #2 - Existing hoistway doors and tracks shall be removed. Supply new baked enamel hoistway doors, with new hoistway door tracks, rollers, interlocks and clutch rollers, at all landings. New complete hoistway door systems shall be integrated with new elevator cab and elevator door operator equipment, [see door operator equipment].
- C. Elevator #2 - Existing hoistway door sills and entrance frames shall be removed from the hoistway. GC shall supply sub-contractor to saw cut entrance frames from existing walls. Elevator contractor shall be on site and coordinate with sub-contractor for cutting and removal of existing entrance frames.
- D. Elevator #2 - Provide new door closures for hoistway doors. Drill and tap hoistway doors and sills if required.
- E. Supply new Facia into elevator system at all locations as required per codes.

1.5 Door Operator Equipment to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Approved Door Operator Manufactures shall be; GAL.
- B. Provide new non-proprietary solid-state GAL – MOVFR II door operator. Door Operator shall come equipped with on board diagnostics tools and shall be built for size and type of existing doors.
- C. Provide new electronic light curtain[s] that detects passengers entering or exiting the elevator. Light curtain[s] shall be compatible with GAL – MOVFR II and supplied by GAL.
- D. Provide new GAL electric car gate switch, to be incorporated with new cabs.
- E. Provide new GAL linkage and clutch assembly to be incorporated to car and hoistway doors, to provide complete car and hoistway door system.
- F. Provide new clutch rollers, hoistway door rollers, gibs and fire tabs on all doors.

1.6 Power Units Equipment to be Modernized for E1 and E2:

- A. Alternates to the equipment listed herein shall not be permitted. Provide new hydraulic power unit complete with new submersible motor, pump, valve, silencer & tank. Power units to be manufactured by Canton Elevator, Quality Elevator, Alliance Elevator, or Schumacher Elevator.
- B. Provide new submersible motor, hydraulic power unit with HP motor designed for appropriate elevator configurations. Speed shall be +/- 15% of existing contract speed. Hydraulic valve to be manufactured by Blain or Maxton and configured for appropriate capacity size and load of E1 and E2.
- C. If capacity for E2 increases, ensure new power unit and HP of motor is supplied as required.
- D. Provide new oil lines with one (1) new oil line shut off valve in elevator machine space and one (1) new oil line shut off valve in elevator pit. Existing oil line from machine room to elevator hoistway shall be replaced. Ensure no fittings are inside walls, ceilings, or floor cavities. Oil lines shall be sized for capacity and loads as required by the elevator manufacture.

- E. Provide new AW32 hydraulic oil in power unit reservoir. Removal and disposal of existing hydraulic oil from site shall be provided by elevator contractor.

1.7 Wiring Equipment:

- A. Provide new travel cable wiring between elevator controller and elevator cab. Provide spares in travel cable as required per code. Travel cable to be designed for new elevator controller and operating systems.
- B. Provide a separate and dedicated travel cable for elevator security key FOB system and security camera. Camera and FOBS to be supplied by security contractor, installation of camera and FOBs shall be by elevator contractor.
- C. Elevator contractor shall coordinate with GC and security contractor regarding proper number of shielded pairs of communication wiring in dedicated security system travel cable. Estimated 6 shielded pairs and 1 coaxial cable.
- D. Provide new hoistway wiring between elevator controller and hoistway.
- E. Provide new hoistway wiring to all interlocks, selector, switches, door operator, and signal fixtures.
- F. No existing wiring shall be retained.

1.8 Miscellaneous to be Included in Price:

- A. Removal of all decommissioned equipment from the job site shall be provided by the elevator contractor.
- B. Permit & Final Inspection fees included in base bid.
- C. Elevator contractor to coordinate with other trades for all work by others and meet on site as required to ensure proper configuration.
- D. Provide new scavenger pump / oil reclaim system from hydraulic cylinders to power unit in elevator machine room. Scavenger pump to have integral counter.
- E. Provide digital copy of as built drawings, owner's manuals, wiring diagrams, and schematics to owners rep. Provide 2 hard copy sets to the owners for machine spaces and files.
- F. New pit ladder to be provided by elevator contractor.
- G. Time required to coordinate with other trades for work by others for electrical, smoke sensor systems, phone lines, etc. shall be included in base bid. This time shall not be additional to the contract.
- H. Elevator contractor shall sign owners' contract and supply separate qualifications page. Qualifications shall not remove or alter scope of work as outlined in specifications. Any alterations to scope of work outlined herein shall be replaced at the expense of the elevator contractor.

Part 3 Warranty:

3.1 Warranty:

- A. Elevator contractor to provide a one (1) year warranty from date of final acceptance on all replaced parts & labor for replaced parts. The warranty shall include coverage of elevator system components and operating equipment.
- B. Elevator contractor shall not be responsible for work required due to abuse, misuse, or Acts of God.
- C. Vendor shall submit a written report to Owner, stating nature of abuse or misuse and corrective action required to repair.

Part 4 Maintenance Service:

1.9 Maintenance:

- A. Vendor shall furnish complete service and maintenance of the elevator system and components during the initial twelve (12) month period following the final acceptance of the elevator.
- B. Vendor shall examine elevator equipment on a quarterly basis, for two (2) hours on site per elevator, per visit, to inspect, clean, adjust, and lubricate all equipment. Quarterly inspection schedule to commence at the date of Final Inspection. The Final Inspection shall not be considered as a maintenance inspection.
- C. Vendor shall provide regular time callback service during warranty period at no additional cost to the owner, unless due to misuse or vandalism, Acts of God or building equipment failure causing malfunction. Response time shall be within 2 hours after request is received.
- D. Service vehicles with adequate stock of parts for repairs, replacement, or emergency callbacks shall be supplied by elevator contractor.
- E. If emergency callback or repair is due to abuse or misuse by others, Vendor shall submit a written report to the owner stating the nature of abuse and corrective action required.

Part 5 Special Conditions – Fill in Highlighted Area:

1.1 Special Conditions:

- A. Provide lead time for equipment delivery in weeks approximately after all submittal and approved documents along with selections have been processed. All selections must be in before the lead time begins.
- B. Provide approximate project work time for elevator work to complete.
- C. Provide approximate shop drawing production time.
- D. This proposal does not include any provisions for running the car for work by others. If access to the hoistway is required, the time may be billed to the requesting contractor under a separate agreement.
- E. There will be no remobilization fees of any kind allowed on this project.
- F. Vendor will not bill for disposal of equipment or oil or other equipment. If this is required, it shall be included in the base bid.
- G. Vendor will work with owner's contractor to connect fire service and phone lines to the controller at no additional charge. Provide billing schedule of values at time of award.

Part 6 Work to be Provided by Owner or Others and is not Elevator Vendors Responsibility:

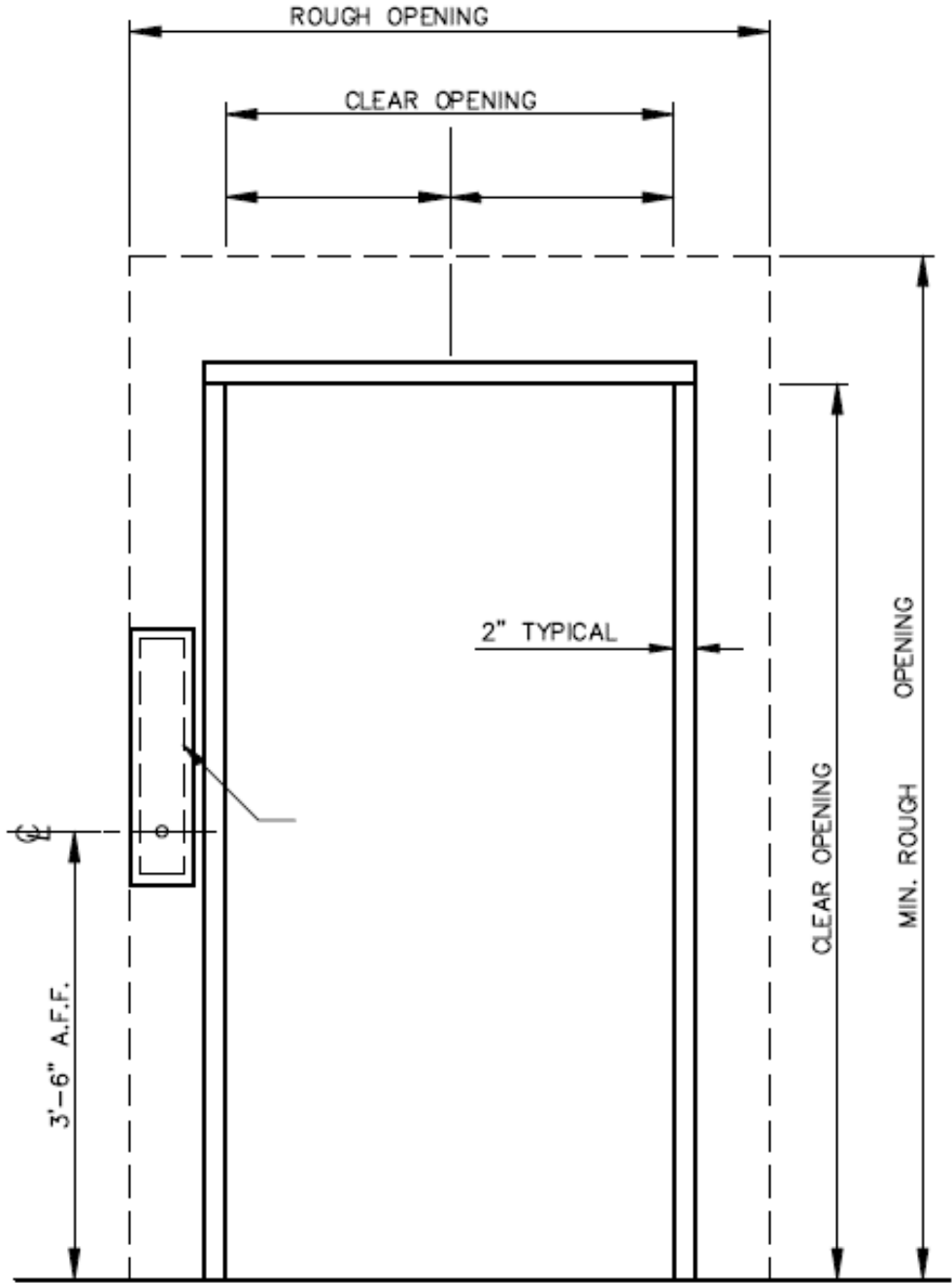
1.2 Work to be Provided by Owner or Others:

- A. To complete this installation, the following items shall be completed by owner and/or its subcontractors, in accordance with governing codes. Note: the below may not be a complete list of work needed by others.
- a. General:
 - i. Code approved hoistway, pit and machine spaces with self-closing and self-locking doors. Existing machine spaces and hoistway spaces shall be retained.
 - ii. Finished flooring inside elevator cabs shall be by others.
 - iii. After new sills and entrance frames are installed, GC to install new blocking around frames and sills to complete elevator hoistway.
 - b. Demo:
 - i. Elevator #2 - GC shall supply a subcontractor to saw cut entrance frames from brick/ CMU wall, add new lintel for new frames, and provide new rough openings.
 - ii. Elevator #2 - Removal of entrance frames and sills shall be by elevator contractor after completion of saw cutting.
 - iii. Elevator #2 - New rough opening / saw cutting locations shall be located approximately 6" adjacent to each entrance frame section.
 - iv. Debris in pit or hoistways shall be removed by the GC.
 - c. Electrical:
 - i. Smoke detectors with addressable heads shall be incorporated into the elevator system. There shall be 1 smoke sensor mounted above each door frame of the elevator entrance door, 1 smoke sensor in the elevator machine space, 1 smoke sensor in the overhead of the elevator, and 1 heat sensor in the pit of each elevator.
 - ii. Smoke sensors shall be wired into the alarm panel of building. Dedicated programable relays shall be mounted into the elevator machine space, within 3' of new elevator controllers for, main egress floor, alternate floor, and fire hat operation.
 - iii. New adequate lighting shall be installed in the machine space and pit of the elevators.
 - iv. New GFCI's shall be installed into machine spaces and pits of each elevator.
 - v. A separate non GFCI outlet shall be installed in rear of pit for oil reclaim scavenger system.
 - vi. New electrical disconnects shall be installed in elevator machine space locations. Each disconnect it to be a dedicated circuit. The main disconnect shall be rated for existing line voltage.
 - vii. Provide a new dedicated main line disconnect for elevator power and a separate dedicated 110 VAC disconnect for elevator cab lighting.
 - viii. A dedicated phone or VoIP line shall be ran to each elevator controller.

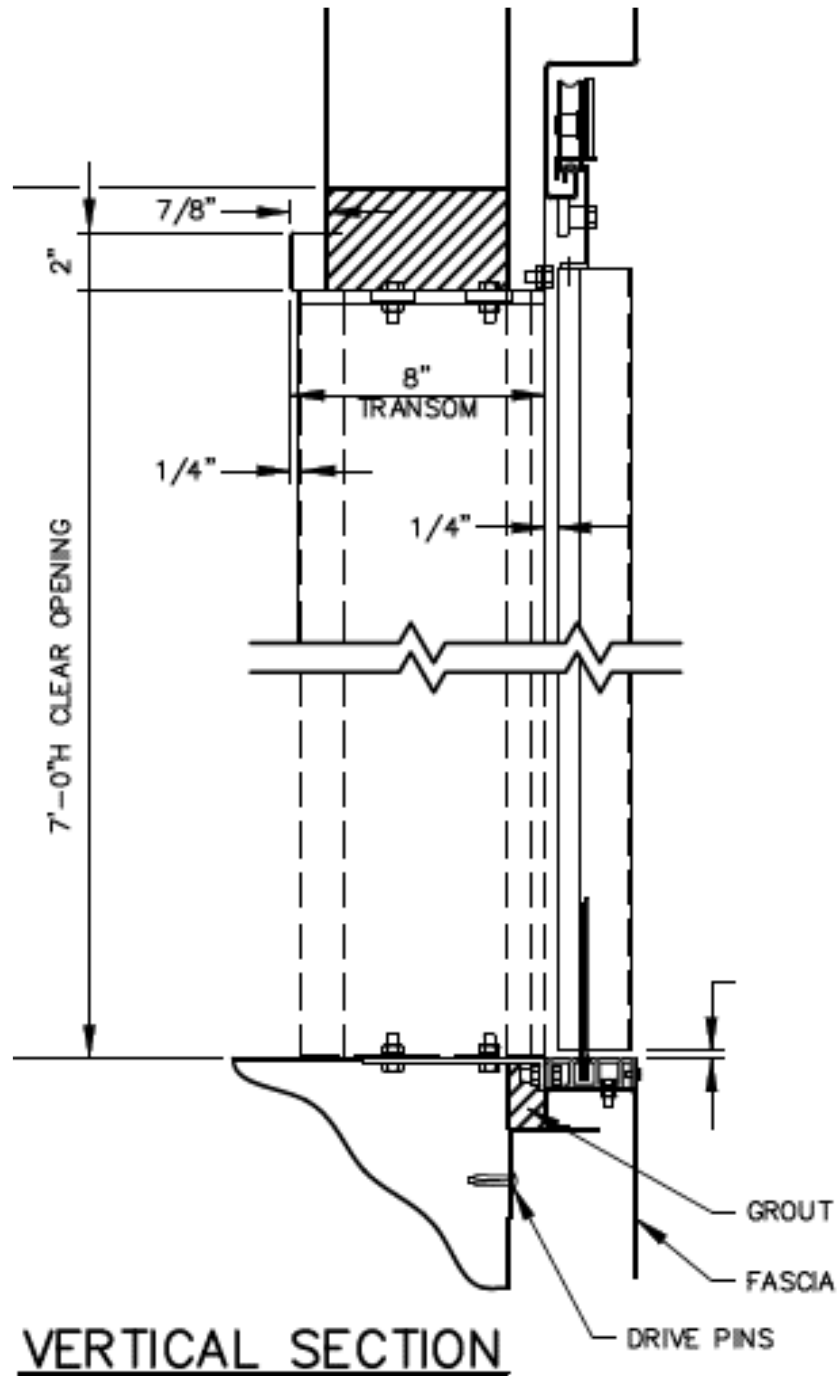
- ix. New feed wires to new dedicated disconnects shall be supplied by the GC. The AMP rating shall be coordinated by elevator contractor and electrical contractor.
- d. Security Provision:
 - i. A security camera shall be supplied inside the elevator cabs and 3 key FOBs per elevator, 1 at each landing and 1 inside the cab, to be supplied by security contractor.
 - ii. Installation of cameras and key FOBs shall be by elevator contractor and coordinated with GC.
- e. Structural Provisions
 - i. The GC shall coordinate proper reaction forces on hoistway walls and on pit floor. Reaction forces shall be supplied by the elevator contractor on prelim drawings.
 - ii. If new rail bracket inserts are required, they shall be supplied by the elevator contractor and installed by GC.
 - iii. See attached sample drawings and reaction forces for rails and pit floors. These reaction forces are samples only and actual sizes and reaction forces shall be supplied by elevator contractor.
- f. Mechanical:
 - i. Sump pump in pit, fire damper, hoistway & machine room venting, heating and cooling for machine room and hoistway, and shunt trip, if required by code.
- g. Barricades
 - i. OSHA approved permanent barricades shall be supplied by the GC at all landings as required. Elevator contractor to coordinate size and type.

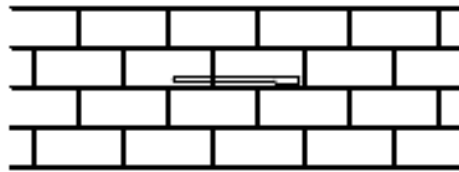
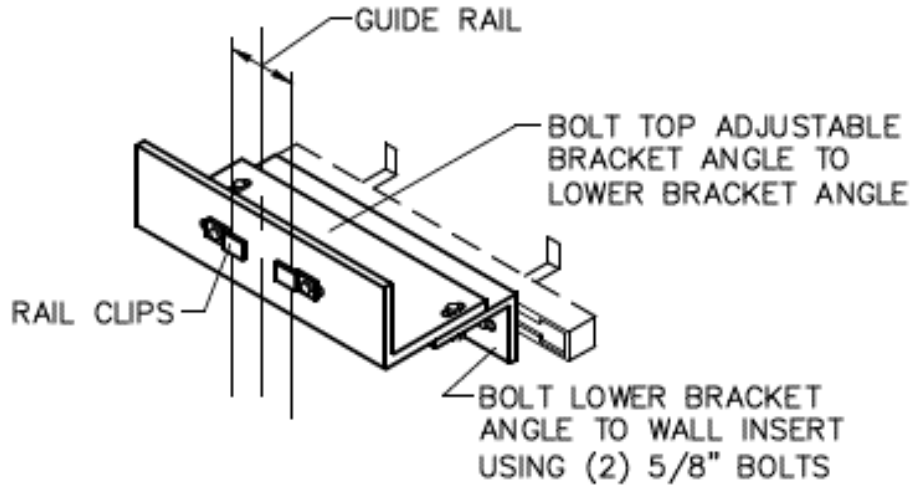
Part 7 – Sample Drawings for Reaction Forces

1.3 Sample Drawings

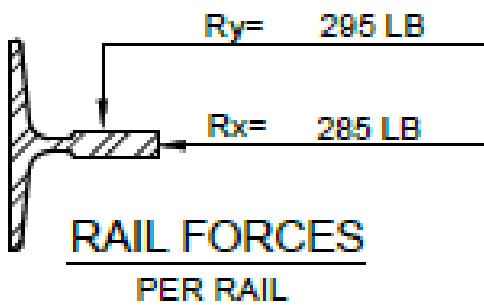


HALL FIXTURE/ROUGH OPENING DETAIL
(VIEWED FROM HALL SIDE)





RAIL BRACKET INSERT INSTALLATION DETAILS
 INSERT OCCURRING IN BLOCK WALL TO
 BE SET BY GENERAL CONTRACTOR



	LB.
GROSS LOAD	9,284
LOAD ON JACK ASSEMBLY*	28,025
IMPACT ON BUFFER SPRINGS**	24,485

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BULLETIN NO. 1

DATE OF ISSUANCE:	December 16, 2024
PROJECT:	Loy Norrix High School Mechanical Improvements 606 East Kilgore Road Kalamazoo, MI 49001
OWNER:	Kalamazoo Public Schools
ARCHITECT'S PROJECT NO.:	21-807.00
ORIGINAL BID ISSUE DATE:	September 16, 2024

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **2** pages of text and the following documents:

- Contract Conditions: **None**
- Specification Sections: **None**
- Drawings: ED100J, ED100K, ED101J, ED101K, E100J, E100K, E101J, E101K, E200J, E200K, E201J, E201K, E402, E403A, E405, E406, TD 100J, TD 100K, TD 101J, TD 101K, T 100J, T 100K, T 101J, T 101K, and T 402

CHANGES TO CONTRACT CONDITIONS

None.

CHANGES TO SPECIFICATIONS

None.

CHANGES TO DRAWINGS

BUL-1 Item No. D-1 - Technology drawings updated to reflect updated spec: "DIVISION 14 – CONVEYING EQUIPMENT 14 2401 – HYDRAULIC ELEVATOR MODERNIZATION" which was added in ADDENDUM #3, dated 12/16/2024.

Refer to Drawings: TD 100J, TD 100K, TD 101J, TD 101K, T 100J, T 100K, T 101J, T 101K, T 402

All "J" Sheets and T 402 are new sheets. All Tech sheets show the removal of elevator cabling, provided by security contractor. Demolition Keyed Note 10 and Construction Keyed Notes 13 & 14 have been added with camera, fob, and cabling instructions. T 402 details camera installation and includes Security Camera Schedule.

BUL-1 Item No. D-2 - Electrical Revisions to New Elevators in Place of Existing

Refer to revised drawings:

ED100K, ED101K, E100K, E101K, E200K, E201K, E402, E405, and E406,

Refer to New Drawings:

ED100J, ED101J, E100J, E101J, E200J, E201J, and E403A

Revised and added electrical drawings to indicate new connections to new elevators in place of existing in units J and K. Revised electrical demolition, power, and lighting floor plans. Revised one-line diagrams, feeder schedules, and light fixture schedule.

END OF BULLETIN.