

October 15, 2026

**Request for Bids
Lansing School District
Purchasing Department
519 West Kalamazoo
Lansing, MI 48933**

This is not an order

Sealed proposals for the furnishing of items and services listed on the sheets attached to the bid proposal documents that are available on our web-site will be received in the Lansing School District Purchasing Office, 519 W. Kalamazoo St., Lansing, Michigan 48933 until

November 12, 2026, 2:00 PM local time.

At this time and place bids will be opened publicly and read aloud.

One (1) original and Two (2) copies of the bid are to be submitted on the forms furnished by the Lansing School District in a sealed envelope and clearly marked:

Bid SO-1862 Electrical Infrastructure for EV Chargers and BESS

BID DOCUMENTS WILL BE POSTED BY October 19, 2026

To obtain a copy of this request for bid please visit our web site at:

www.lansingschools.net

(Click on Quicklinks at the top and click on Vendors (Bid Info), scroll down to Current Requests for Bids or Proposals) or the bid documents are also posted on the State of Michigan's procurement system SIGMA. If you need assistance, please contact the Lansing School District Purchasing Department at 517-755-3030.

No faxed, telephone or e-mailed bids will be accepted. Late submittals will not be considered.

All questions must be in writing and should be directed to Jon Laing, Director of Procurement at:

Projects@lansingschools.net, no later than 5:00 PM on Thursday, October 29, 2026. Addendums will be posted on the Lansing School District's web-site and SIGMA as they are issued.

All bids/proposals must be accompanied by a 5% bid bond and a sworn and notarized statement disclosing any familial relationship with the Board of Education and selected staff. Bids must include the completed statement to be accepted or considered.

All bids shall be submitted in accordance with the attached instructions and shall remain firm for a period of ninety (90) days after the opening of bids.

A bid bond is required with this bid in the amount of 5% of the total bid amount. Certified payrolls are required with each invoice or pay application. A performance, labor and materials bond will be required to cover 100% of the project.

The Lansing School District reserves the right to reject any or all bids in whole or in part and to accept the proposal or portion of the proposal that, in their opinion, best serves the interests of the Lansing School District.

Lansing School District

Jon Laing
Director of Procurement

PRE-BID INFORMATION

There will be a Virtual Pre-Bid Meeting held Monday, October 26, 2026 at 3:00 PM on Google Meet: meeting link meet.google.com/fae-tnkv-nxs. Attendance is HIGHLY RECOMMENDED.



Lansing School District

**Battery Energy Storage Systems (BESS) and
Electric Vehicle (EV) Chargers**

for the

- A. North Environmental Science Magnet School**
- B. Pattengill Biotechnical Magnet School**
- C. Wexford Montessori Academy**
- D. Cavanaugh STEAM Elementary School**

Electrical Project #SO-1862

BIDDING PACKAGE

CTC Engineering, LLC Project No. 28172.01

INDEX

PROJECT: Four Battery Energy Storage Systems & EV Chargers Project

LOCATION: Lansing Public School District
North Environmental Science Magnet School
Pattengill Biotechnical Magnet School
Wexford Montessori Academy
Cavanaugh STEAM Elementary School

**CONSULTING
ENGINEER:** CTC Engineering, LLC
3915 Research Park Drive, Ste. A-8
Ann Arbor, Michigan 48108

PROJECT TIMELINE

PROPOSAL FORM

GENERAL SPECIFICATIONS

Supplier Vendor Application
Commodity List
Statement Of No Bid
Affidavit Of Bidder
Policy Manual
Non-Discrimination In Employment Certification
Affidavit Of Bidder – Non-Collusion
Iran Economic Sanctions Act Certificate
Enrolled Senate Bill No. 1024
General Conditions and Instructions to Bidders
Board Of Education/Lansing School District Policy

SPECIFICATIONS

	Section	Page
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Wires and Cables (600 Volts and Less)	26 0519	1 to 3
Grounding	26 0526	1 to 2
Raceways and Fittings	26 0539	1 to 3
Underground Electrical Service	26 2116	1 to 2
Distribution Transformers	26 2200	1 to 2
480/277 Volt Switchgear	26 2416	1 to 6
Electric Vehicle (EV) Charger (Supplied by Owner)	26 3323	1 to 2
Battery Energy Storage Systems	26 3326	1 to 3

DRAWINGS

Electrical

28172.01 E-1 – Cavanaugh One-Line Diagram
28172.01 E-2 – Cavanaugh Site Plan
28172.01 E-3 – North One-Line Diagram
28172.01 E-4 – North Site Plan
28172.01 E-5 – Pattengill One-Line Diagram
28172.01 E-6 – Pattengill Site Plan
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28172.01 E-8 – Wexford Site Plan

PROJECT TIMELINE

PROJECT: Four Battery Energy Storage Systems & EV Chargers Project

LOCATION: Lansing Public School District
North Environmental Science Magnet School
Pattengill Biotechnical Magnet School
Wexford Montessori Academy
Cavanaugh STEAM Elementary School

**CONSULTING
ENGINEER:** CTC Engineering, LLC
3915 Research Park Drive, Ste. A-8
Ann Arbor, Michigan 48108

The project timeline shall be according to the following schedule:

- Pre-Bid Meeting - Monday, October 26, 2026, 3:00 PM/EDT
- Pre-Bid RFI/Questions Due - Thursday, October 29, 2026, 5:00 PM/EDT
- Bid Deadline - Wednesday, November 12, 2026, before 2:00 PM/EDT

It is expected that the project will be completed in its entirety by mid August, 2027.

**Pre-Bid Virtual Meeting Link on Google Meet:
meeting link: meet.google.com/fae-tnkv-nxs**

PROPOSAL

PROJECT: Four Battery Energy Storage Systems & EV Chargers Project

LOCATION: Lansing Public School District
North Environmental Science Magnet School
Pattengill Biotechnical Magnet School
Wexford Montessori Academy
Cavanaugh STEAM Elementary School

CONSULTING ENGINEER: CTC Engineering, LLC
3915 Research Park Drive, Ste. A-8
Ann Arbor, Michigan 48108

1.0 BASE BID

The Undersigned, having familiarized themselves with the local conditions affecting the cost of the work and with the Contract Documents, including Advertisement for Bids, Instructions to Bidders, Proposal, Agreement, General Conditions, Detailed Specifications, Plans and Addenda and exhibits issued and attached to the Specifications prepared by CTC Engineering, LLC, and dated October, 2026, hereby propose to perform everything required to be performed in order to complete the project described herein and covered by this proposal for the Four Battery Energy Storage Systems & Owner Furnished EV Chargers Project Package for the Lansing School District of Lansing, Michigan, all in accordance with the plans and specifications including Addenda Nos. _____ and _____, issued thereto for the sums of (note the breakdowns below must be included, add up to the total sum or the proposal will be considered incomplete):

A. North Environmental Science Magnet School

_____	(\$	).
• Unit cost of the furnished BESS equipment	(\$	).
• BESS installation, all trades, complete	(\$	).
• Owner furnished EV charger installation	(\$	).
• Proposed BESS manufacturer and model: _____		

B. Pattengill Biotechnical Magnet School

_____	(\$	).
• Unit cost of the furnished BESS equipment	(\$	).
• BESS installation, all trades, complete	(\$	).
• Owner furnished EV charger installation	(\$	).
• Proposed BESS manufacturer and model: _____		

C. Wexford Montessori Academy

_____ (\$ _____).

- Unit cost of the furnished BESS equipment (\$ _____).
- BESS installation, all trades, complete (\$ _____).
- Owner furnished EV charger installation (\$ _____).
- Proposed BESS manufacturer and model: _____

D. Cavanaugh STEAM Elementary School

_____ (\$ _____).

- Unit cost of the furnished BESS equipment (\$ _____).
- BESS installation, all trades, complete (\$ _____).
- Owner furnished EV charger installation (\$ _____).
- Proposed BESS manufacturer and model: _____

1.1 PROPOSALS

The Lansing School District reserves the right to accept any or all parts of a bid and select the bid best suited for its use.

1.2 VOLUNTARY ALTERNATES

Any voluntary alternates may be described here. Describe fully. Use extra pages if necessary.

1.3 REQUESTED ALTERNATES

In addition to the base bid's first year of turnkey BESS maintenance and warranty service per Section 26 3326, provide annual pricing for Years 2 through 5, priced separately by year, at the District's option.

Year 2 \$_____ Year 3 \$_____ Year 4 \$_____ Year 5 \$_____

2.0 COMPLETION TIME

A. The undersigned agrees to complete this project within _____ calendar days of award.

3.0 INFORMALITIES

A. In submitting this bid, it is understood that the right is reserved by the Lansing School District to reject or to accept any bid, or to waive any informalities in any bid, in the interest of the District. It is agreed that his bid may not be withdrawn for a period of sixty (60) calendar days from the opening thereof and that the Base Bid is made in strict accordance with the specifications.

DATE: _____

FIRM NAME:

OFFICIAL ADDRESS:

By:
Title:

WITNESS:

LANSING SCHOOL DISTRICT
PURCHASING DEPARTMENT
519 W. KALAMAZOO ST., ROOM 200
LANSING MI 48933
(517) 755-3030
FAX (517) 755-3019

SUPPLIER/VENDOR APPLICATION
(Please type or print)

PURFR016 – 7/7/08 – Version 5

MARK ONE:

- ☐ New Application
☐ Update

Date: _____

W-9 form attached? ☐ YES ☐ NO

DUN & BRADSTREET RATING (if available)

NAME OF COMPANY		FEDERAL ID NUMBER (OR) SOCIAL SECURITY NUMBER <small>Submit copy of W-9 form with application</small>	
ADDRESS TO WHICH BIDDING FORMS AND PURCHASE ORDERS ARE TO BE MAILED – STREET NO., CITY, STATE, ZIP CODE			
ADDRESS TO WHICH PAYMENTS ARE TO BE MAILED – STREET NO., CITY, STATE, ZIP CODE			
PARENT COMPANY AND ADDITIONAL OFFICE LOCATIONS IN MICHIGAN (May attach separate sheet)			
E-MAIL ADDRESS: <small>For Purchase orders to be emailed</small>		WEB SITE:	
TYPE OF ORGANIZATION ☐ Individual ☐ Partnership ☐ Corporation		TELEPHONE #: _____ FACSIMILIE #: _____	
PERSONS TO CONTACT AND THOSE AUTHORIZED TO SIGN BIDS AND CONTRACTS IN YOUR NAME (if agent, so specify)			
Name		Official Capacity	
		Telephone No.	
PLEASE LIST ON THE REVERSE SIDE CLASSES OF EQUIPMENT, SUPPLIES, MATERIALS, AND/OR SERVICES ON WHICH YOU DESIRE TO BID. ☐ Do you require a hard copy of verbal orders? Yes ____ No ____ Do you accept Procurement Cards? Yes ____ No ____ ☐ Electronic Disk Catalog ☐ Electronic Ordering			
Please complete the following: STANDARD PAYMENT TERMS: _____ PROMPT PAY DISCOUNT: _____ STANDARD DELIVERY TIME: _____			
PLEASE COMPLETE BELOW Please list percentage and circle category that applies: MINORITY OWNED: ____% Native-American Asian-Pacific American African-American Hispanic-American Asian-Indian American WOMEN OWNED: ____% White Native-American Asian-Pacific American African-American Hispanic-American Asian-Indian American DISABLED: ____% SMALL BUSINESS: Yes ____ No ____ Business located within LANSING SCHOOL District Yes ____ No ____ Are you certified? If so, list agencies _____ _____ _____ _____ Certificate Number: _____ _____ _____ _____			
SIGNATURE OF PERSON AUTHORIZED TO SIGN THIS APPLICATION _____ NAME AND TITLE OF PERSON SIGNING (Please type or print) _____ _____			

COMMODITY LIST

Please place a checkmark (✓) by the appropriate code and provide a detailed description of the commodities and/or services offered. If the complete NAICS Code is known please include this number in the description area.
Website URL address for NAICS is: <http://www.census.gov/epcd/www/naics.html>

NAICS CODE	DESCRIPTION
____11 – Agriculture, Forestry, Fishing and Hunting	
____21 – Mining	
____22 – Utilities	
____23 – Construction	
____31-33 – Manufacturing	
____42 – Wholesale Trade	
____44-45 – Retail Trade	
____48-49 – Transportation and Warehousing	
____51 – Information	
____52 – Finance and Insurance	
____53 – Real Estate and Rental and Leasing	
____54 – Professional, Scientific and Technical Services	
____55 – Management of Companies and Enterprises	
____56 – Administrative & Support, Waste Management & Remediation Services	
____61 – Educational Services	
____62 – Health Care and Social Assistance	
____71 – Arts, Entertainment and Recreation	
____72 – Accommodation and Foodservices	
____81 – Other Services (except Public Administration)	
____92 – Public Administration	
____99 – Unclassified Establishments	

CATEGORY (Check below the category which applies to the applicant)

- ☐ (A) Manufacturer or Producer ☐ (B) Wholesaler ☐ (C) Retailer ☐ (D) Mfg'r's Agent ☐ (E) Distributor
☐ (F) Service Establishment



Committed to Quality

STATEMENT OF NO BID

NOTE: IF YOU DO NOT INTEND TO BID, PLEASE RETURN THIS FORM ONLY TO:

Lansing School District
519 W KALAMAZOO ST
LANSING, MI 48933

BID NO: # _____

PHONE: 517-755-3030
FAX: 517-755-3019

We, the undersigned, have declined to bid on the above noted bid for the following reasons:

_____ Insufficient time to respond to the invitation to Bid.

_____ Request for Proposal is unclear.

_____ Do not offer this product or service.

_____ Our schedule will not permit us to perform.

_____ Unable to meet the specifications

_____ Specifications are unclear (Please explain below)

_____ Remove us from your Bidder Mailing List

_____ Other (Please specify below)

REMARKS:

Company Name: _____

Signature: _____

Date: _____ Telephone: _____ Fax: _____

AFFIDAVIT OF BIDDER

The undersigned, the owner or authorized officer of _____ (the "Bidder), pursuant to the familial disclosure requirement provided in the _____ (the "School District") advertisement for construction bids, hereby represent and warrant, except as provided below, that no familial relationships exist between the owner(s) or any employee of _____ and any member of the Board of Education of the School District or the Superintendent of the School District.

List any Familial Relationships:

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: _____



Book	Policy Manual
Section	3000 Professional Staff
Title	NONDISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY
Code	po3122
Status	Active
Adopted	November 1, 2016
Last Revised	June 22, 2023

3122 - **NONDISCRIMINATION AND EQUAL EMPLOYMENT OPPORTUNITY**

The Board of Education does not discriminate on the basis of race, color, national origin, sex (including sexual orientation and gender identity), disability, age, religion, height, weight, marital or family status, military status, ancestry, genetic information, or any other legally protected category, (collectively, "Protected Classes"), in its programs and activities, including employment opportunities.

Definitions:

Words used in this policy shall have those meanings defined herein; words not defined herein shall be construed according to their plain and ordinary meanings.

Race is inclusive of traits historically associated with race, including, but not limited to, hair texture and protective hairstyles. For purposes of this definition, "protective hairstyles" includes, but is not limited to, such hairstyles as braids, locks, and twists.

Complainant is the individual who alleges, or is alleged, to have been subjected to unlawful discrimination/retaliation, regardless of whether the person files a formal complaint or is pursuing an informal resolution to the alleged discrimination/retaliation.

Respondent is the individual who has been alleged to have engaged in unlawful discrimination/retaliation, regardless of whether the Reporting Party files a formal complaint or is seeking an informal resolution to the alleged discrimination/retaliation.

School District community means students and Board employees (i.e., administrators, and professional and classified staff), as well as Board members, agents, volunteers, contractors, or other persons subject to the control and supervision of the Board.

Third Parties include, but are not limited to, guests and/or visitors on School District property (e.g., visiting speakers, participants on opposing athletic teams, parents), vendors doing business with, or seeking to do business with, the Board, and other individuals who come in contact with members of the School District community at school-related events/activities (whether on or off District property).

Day(s): Unless expressly stated otherwise, the term "day" or "days" as used in this policy means a business day(s) (i.e., a day(s) that the Board office is open for normal operating hours, Monday - Friday, excluding State-recognized holidays).

For purposes of this policy, "military status" refers to a person's status in the uniformed services, which includes the performance of duty, on a voluntary basis, or involuntary basis, in a uniformed service including active duty, active duty for training, initial active duty for training, inactive duty for training, full-time National Guard duty. It also includes the period of time for which a person is absent from employment for the purpose of an examination to determine the fitness of the person to perform any such duty as listed above.

District Compliance Officers

The Board designates the following individuals to serve as the District's "Compliance Officers" (also known as "Civil Rights Coordinators") (hereinafter referred to as the "COs").

Darin Walter
 Title IX - Public Safety
 517-755-2037
 519 W Kalamazoo
 Lansing, MI 48933
 darin.walter@lansingschools.net

Erin Miracle
 Human Resources Manager
 517-755-2010
 519 W Kalamazoo
 Lansing, MI 48933
 Erin.miracle@lansingschools.net

The names, titles, and contact information of these individuals will be published annually on the School District's website and in the staff handbooks, and in the School District Annual Report to the public

The COs are responsible for coordinating the District's efforts to comply with applicable Federal and State laws and regulations, including the District's duty to address in a prompt and equitable manner any inquiries or complaints regarding discrimination/retaliation or denial of equal access. The COs shall also verify that proper notice of nondiscrimination for Title II of the Americans with Disabilities Act (as amended), Title VI and Title VII of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973 (as amended), and the Age Discrimination in Employment Act of 1975 is provided to staff members and the general public. A copy of each of the Acts and regulations on which this notice is available upon request from the CO.

Reports and Complaints of Unlawful Discrimination and Retaliation

Employees are required to report incidents of unlawful discrimination and/or retaliation to an administrator, supervisor, or other District-level official so that the Board may address the conduct. Any administrator, supervisor, or other District-level official who receives such a report shall file it with the CO within two (2) days.

Employees who believe they have been unlawfully discriminated/retaliated against are entitled to utilize the complaint process set forth below. Initiating a complaint, whether formally or informally, will not adversely affect the Complainant's employment. While there are no time limits for initiating complaints under this policy, individuals should make every effort to file a complaint as soon as possible after the conduct occurs while the facts are known and potential witnesses are available.

The COs will be available during regular school/work hours to discuss concerns related to unlawful discrimination/retaliation. COs shall accept reports of unlawful discrimination/retaliation directly from any member of the School District community or a Third Party, or received reports that are initially filed with another Board employee. Upon receipt of a report of alleged discrimination/retaliation, the CO will contact the Complainant and begin either an informal or formal complaint process (depending on the Complainant's request and the nature of the alleged discrimination/retaliation), or the CO will designate a specific individual to conduct such a process. The CO will provide a copy of this policy to the Complainant and the Respondent. In the case of a formal complaint, the CO will prepare recommendations for the Superintendent or oversee the preparation of such recommendations by a designee. All members of the School District community must report incidents of discrimination/retaliation that are reported to them to the CO within two (2) business days of learning of the incident/conduct.

Any Board employee who directly observes unlawful discrimination/retaliation is obligated, in accordance with this policy, to report such observations to one of the COs within two (2) business days. Additionally, any Board employee who observes an act of unlawful discrimination/retaliation is expected to intervene to stop the misconduct, unless circumstances make such an intervention dangerous, in which case the staff member should immediately notify other Board employees and/or local law enforcement officials, as necessary, to stop the misconduct. Thereafter, the CO or designee must contact the Complainant within two (2) business days to advise of the Board's intent to investigate the alleged wrongdoing.

Investigation and Complaint Procedure (See Form 3122 F2)

Except for sex discrimination and/or Sexual Harassment that is covered by Policy 2266 - Nondiscrimination on the Basis of Sex in Education Programs or Activities, any employee who alleges to have been subjected to unlawful discrimination or retaliation may seek resolution of the complaint through the procedures described below. The formal complaint procedures

involve an investigation of the individual's claims of discrimination/retaliation and a process for rendering a decision regarding whether the charges are substantiated.

Due to the sensitivity surrounding complaints of unlawful discrimination or retaliation, timelines are flexible for initiating the complaint process; however, individuals are encouraged to file a complaint within thirty (30) days after the conduct occurs. Once the formal complaint process is begun, the investigation will be completed in a timely manner (ordinarily, within fifteen (15) business days of the complaint being received).

The procedures set forth below are not intended to interfere with the rights of any individual to pursue a complaint of unlawful discrimination or retaliation with the United States Department of Education Office for Civil Rights or Equal Employment Opportunity Commission ("EEOC").

Informal Complaint Procedure

The goal of the informal complaint procedure is to promptly stop inappropriate behavior and facilitate resolution through an informal means, if possible. The informal complaint procedure is provided as a less formal option for an employee who alleges unlawful discrimination or retaliation. This informal procedure is not required as a precursor to the filing of a formal complaint. The informal process is only available in those circumstances where the Complainant and the Respondent mutually agree to participate in it.

The Complainant may proceed immediately to the formal complaint process and individuals who participate in the informal procedure may request that the informal process be terminated at any time to move to the formal complaint process.

All complaints involving a District employee or any other adult member of the School District community and a student will be formally investigated.

As an initial course of action, if a Complainant feels comfortable and safe doing so, the individual should tell or otherwise inform the Respondent that the allegedly discriminatory/retaliatory conduct that it is inappropriate and must stop. The Complainant should address the alleged misconduct as soon after it occurs as possible. The COs are available to support and counsel the Complainant when taking this initial step or to intervene on behalf of the individual if requested to do so. A Complainant who is uncomfortable or unwilling to directly approach the Respondent about the inappropriate conduct may file an informal or a formal complaint. In addition, with regard to certain types of unlawful discrimination (e.g., sex discrimination), the CO may advise against the use of the informal complaint process.

A Complainant who alleges unlawful discrimination/retaliation may make an informal complaint, either orally or in writing: 1) to a building administrator; 2) directly to one of the COs; and/or 3) to the Superintendent or other District-level employee.

All informal complaints must be reported to one of the COs who will either facilitate an informal resolution as described below or appoint another individual to facilitate an informal resolution.

The School District's informal complaint procedure is designed to provide the Complainant with a range of options aimed at bringing about a prompt resolution of their concerns. Depending upon the nature of the complaint and the wishes of the Complainant, informal resolution may involve, but not be limited to, one or more of the following:

- A. Advising the Complainant about how to communicate concerns to the Respondent.
- B. Distributing a copy of Policy 3122 – Nondiscrimination and Equal Employment Opportunity to the individuals in the school building or office where the Respondent works.
- C. If both parties agree, the CO may arrange and facilitate a meeting or mediation between the Complainant and the Respondent to work out a mutual resolution.

While there are no set time limits within which an informal complaint must be resolved, the CO or designee is directed to attempt to resolve all informal complaints within fifteen (15) business days of receiving the informal complaint. If the Complainant is dissatisfied with the informal complaint process, the Complainant may proceed to file a formal complaint and, as stated above, either party may request that the informal process be terminated at any time to move to the formal complaint process.

Formal Complaint Procedure

If a complaint is not resolved through the informal complaint process, if one of the parties requested that the informal complaint process be terminated to move to the formal complaint process, or if the Complainant, from the outset, elects to file a formal complaint, or the Compliance Officer(s) determines the allegations are not appropriate for resolution through the informal process, the formal complaint process shall be implemented.

A Complainant may file a formal complaint, either orally or in writing, with a principal, the CO, Superintendent, or other District official. Due to the sensitivity surrounding complaints of unlawful discrimination and retaliation, timelines are flexible for initiating the complaint process; however, individuals should make every effort to file a formal complaint within thirty (30) days after the conduct occurs. If a Complainant informs a principal, Superintendent, or other District official, either orally or in writing, about any complaint of discrimination/retaliation, that employee must report such information to the CO/designee within two (2) business days.

Throughout the course of the process, the CO should keep the parties reasonably informed of the status of the investigation and the decision-making process.

All formal complaints must include the following information to the extent known: the identity of the Respondent; a detailed description of the facts upon which the complaint is based (i.e., when, where, and what occurred); a list of potential witnesses; and the resolution sought by the Complainant.

If the Complainant is unwilling or unable to provide a written statement including the information set forth above, the CO shall ask for such details in an oral interview. Thereafter, the CO will prepare a written summary of the oral interview, and the Complainant will be asked to verify the accuracy of the reported charge by signing the document.

Upon receiving a formal complaint, the CO will consider whether any action should be taken in the investigatory phase to protect the Complainant from further discrimination or retaliation, including, but not limited to, a change of work assignment or schedule for the Complainant and/or the Respondent. In making such a determination, the CO should consult the Complainant to assess whether the individual agrees with the proposed action. If the Complainant is unwilling to consent to the proposed change, the CO may still take whatever actions deemed appropriate in consultation with the Superintendent.

Within two (2) business days of receiving the complaint, the CO or designee will initiate a formal investigation to determine whether the Complainant has been subjected to unlawful discrimination/retaliation.

Simultaneously, the CO will inform the Respondent that a formal complaint has been received. The Respondent will be informed about the nature of the allegations and provided with a copy of any relevant policies and/or administrative guidelines, including Policy 3122 - Nondiscrimination and Equal Employment Opportunity. The Respondent must also be informed of the opportunity to submit a written response to the formal complaint within five (5) days.

Although certain cases may require additional time, the CO or a designee will attempt to complete an investigation into the allegations of discrimination/retaliation within fifteen (15) business days of receiving the formal complaint. The investigation will include:

- A. interviews with the Complainant;
- B. interviews with the Respondent;
- C. interviews with any other witnesses who may reasonably be expected to have any information relevant to the allegations;
- D. consideration of any documentation or other information presented by the Complainant, Respondent, or any other witness that is reasonably believed to be relevant to the allegations.

At the conclusion of the investigation, the CO/designee shall prepare and deliver a written report to the Superintendent that summarizes the evidence gathered during the investigation and provides recommendations based on the evidence and the definition of unlawful discrimination/retaliation as provided in Board policy and State and Federal law as to whether the Respondent has engaged in unlawful harassment/retaliation of the Complainant. The CO's recommendations must be based upon the totality of the circumstances. In determining if discrimination or retaliation occurred, a preponderance of evidence standard will be used. The CO may consult with the Board's legal counsel before finalizing the report to the Superintendent.

Absent extenuating circumstances, within five (5) business days of receiving the report of the CO or the designee, the Superintendent must either issue a written decision regarding whether the charges have been substantiated or request further investigation. A copy of the Superintendent's final decision will be delivered to both the Complainant and the Respondent.

If the Superintendent requests additional investigation, the Superintendent must specify the additional information that is to be gathered, and such additional investigation must be completed within five (5) business days. At the conclusion of the additional investigation, the Superintendent must issue a final written decision as described above.

If the Superintendent determines the Respondent engaged in unlawful discrimination/retaliation toward the Complainant, the Superintendent must identify what corrective action will be taken to stop, remedy, and prevent the recurrence of the discrimination/retaliation. The corrective action should be reasonable, timely, age-appropriate, effective, and tailored to the

specific situation.

The Board reserves the right to investigate and resolve a complaint or report of unlawful discrimination/retaliation regardless of whether the employee alleging the unlawful discrimination/retaliation pursues the complaint. The Board also reserves the right to have the formal complaint investigation conducted by an external person in accordance with this policy or in such other manner as deemed appropriate by the Board or its designee.

The right of a person to a prompt and equitable resolution of the complaint shall not be impaired by the person's pursuit of other remedies such as the filing of a complaint with the Office for Civil Rights, the filing of charges with local law enforcement, or the filing of a civil action in court. Use of this internal complaint process is not a prerequisite to the pursuit of other remedies.

Privacy/Confidentiality

The District will employ all reasonable efforts to protect the rights of the Complainant, the Respondent(s), and the witnesses as much as possible, consistent with the Board's legal obligations to investigate, to take appropriate action, and to conform with any discovery or disclosure obligations. All records generated under the terms of this policy shall be maintained as confidential to the extent permitted by law. Confidentiality, however, cannot be guaranteed. Additionally, the Respondent must be provided with the Complainant's identity.

During the course of a formal investigation, the CO or designee will instruct each person who is interviewed about the importance of maintaining confidentiality. Any individual who is interviewed as part of an investigation is expected not to disclose to third parties any information that is learned or provided during the course of the investigation.

Sanctions and Monitoring

The Board shall vigorously enforce its prohibitions against unlawful discrimination/retaliation by taking appropriate action reasonably calculated to stop and prevent further misconduct. While observing the principles of due process, a violation of this policy may result in disciplinary action up to and including the discharge of an employee. All disciplinary action will be taken in accordance with applicable State law and the terms of the relevant collective bargaining agreement(s). When imposing discipline, the Superintendent shall consider the totality of the circumstances involved in the matter. In those cases where unlawful discrimination/retaliation is not substantiated, the Board may consider whether the alleged conduct nevertheless warrants discipline in accordance with other Board policies, consistent with the terms of the relevant collective bargaining agreement(s).

Where the Board becomes aware that a prior remedial action has been taken against an employee, all subsequent sanctions imposed by the Board and/or Superintendent shall be reasonably calculated to end such conduct, prevent its recurrence, and remedy its effect.

Retaliation

Retaliation against a person who makes a report or files a complaint alleging unlawful harassment/retaliation or participates as a witness in an investigation is prohibited. Neither the Board nor any other person may intimidate, threaten, coerce or interfere with any individual because the person opposed any act or practice made unlawful by any Federal or State civil rights law, or because that individual made a report, formal complaint, testified, assisted or participated or refused to participate in any manner in an investigation, proceeding, or hearing under those laws and/or this policy, or because that individual exercised, enjoyed, aided or encouraged any other person in the exercise or enjoyment of any right granted or protected by those laws and/or this policy.

Retaliation against a person for making a report of discrimination, filing a formal complaint, or participating in an investigation or meeting is a serious violation of this policy that can result in the imposition of disciplinary sanctions/consequences and/or other appropriate remedies.

Formal complaints alleging retaliation may be filed according to the internal complaint process set forth above.

The exercise of rights protected under the First Amendment of the United States Constitution does not constitute retaliation prohibited under this policy.

Education and Training

In support of this policy, the Board promotes preventative educational measures to create greater awareness of unlawful discriminatory practices. The Superintendent shall provide appropriate information to all members of the School District community related to the implementation of this policy and shall provide training for District students and staff where appropriate. All training, as well as all information provided regarding the Board's policy and discrimination in general, will be age and content appropriate.

Retention of Investigatory Records and Materials

The Compliance Officer(s) is responsible for overseeing the retention of all records that must be maintained pursuant to this policy. All individuals charged with conducting investigations under this policy shall retain all documents, electronically stored information ("ESI"), and electronic media (as defined in Policy 8315) created and/or received as part of an investigation, which may include but not be limited to:

- A. all written reports/allegations/complaints/grievances/statements/responses pertaining to an alleged violation of this policy;
- B. any narratives that memorialize oral reports/allegations/complaints/grievances/statements/responses pertaining to an alleged violation of this policy;
- C. any documentation that memorializes the actions taken by District personnel or individuals contracted or appointed by the Board to fulfill its responsibilities related to the investigation and/or the District's response to the alleged violation of this policy;
- D. written witness statements;
- E. narratives, notes from, or audio, video, or digital recordings of witness interviews/statements;
- F. e-mails, texts, or social media posts that directly relate to or constitute evidence pertaining to an alleged violation of this policy (i.e., not after-the-fact commentary about or media coverage of the incident);
- G. notes or summaries prepared contemporaneously by the investigator in whatever form made (e.g., handwritten, keyed into a computer or tablet, etc.), but not including transitory notes whose content is otherwise memorialized in other documents;
- H. written disciplinary sanctions issued to students or employees and other documentation that memorializes oral disciplinary sanctions issued to students or employees for violations of this policy;
- I. dated written determinations/reports (including summaries of relevant exculpatory and inculpatory evidence) and other documentation that memorializes oral notifications to the parties concerning the outcome of the investigation, including any consequences imposed as a result of a violation of this policy;
- J. documentation of any supportive measures offered and/or provided to the Complainant and/or Respondent, including no-contact orders issued to both parties, the dates the no-contact orders were issued, and the dates the parties acknowledged receipt of the no-contact orders;
- K. documentation of all actions taken, both individual and systemic, to stop the discrimination or harassment, prevent its recurrence, eliminate any hostile environment, and remedy its discriminatory effects;
- L. copies of the Board policy and/or procedures/guidelines used by the District to conduct the investigation, and any documents used by the District at the time of the alleged violation to communicate the Board's expectations to students and staff with respect to the subject of this policy (e.g., Student Codes of Conduct and/or Employee Handbooks);
- M. copies of any documentation that memorializes any formal or informal resolutions to the alleged discrimination or harassment.

The documents, ESI, and electronic media (as defined in Policy 8315) retained may include public records and records exempt from disclosure under Federal (e.g., FERPA, ADA) and/or State law – e.g., student records and confidential medical records.

The documents, ESI, and electronic media (as defined in Policy 8315) created or received as part of an investigation shall be retained in accordance with Policy 8310, Policy 8315, Policy 8320, and Policy 8330 for not less than three (3) years, but longer if required by the District's records retention schedule.

Revised 10/19/17

Revised 11/15/18

T.C. 3/8/21

Revised 12/02/21

T.C. 6/22/23

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Legal

M.C.L. 37.2101 et seq., 37.1101 et seq.

20 U.S.C. Section 1681, Title IX of Education Amendment Act

20 U.S.C. Section 1701 et seq., Equal Educational Opportunities Act of 1974

20 U.S.C. Section 7905, Boy Scouts of America Equal Access Act

29 C.F.R. Part 1635

29 U.S.C. 701 et seq., Rehabilitation Act of 1973 as amended

34 C.F.R. Part 110 (7/27/93)

42 U.S.C. 2000e et seq., Civil Rights Act of 1964

42 U.S.C. 2000ff et seq., The Genetic Information Nondiscrimination Act

42 U.S.C. 6101 et seq., Age Discrimination Act of 1975

42 U.S.C. 12101 et seq., The Americans with Disabilities Act of 1990, as amended

Fourteenth Amendment, U.S. Constitution

NON-DISCRIMINATION IN EMPLOYMENT CERTIFICATION

Lansing School District Certificate of Intent to Comply with “NON-DISCRIMINATION IN EMPLOYMENT” POLICY

I have read Lansing School District’s Policy #3122, including paragraph #13 and hereby state my intent to comply with the terms and conditions contained therein. Further I agree to furnish the Michigan Civil Rights Commission with such data and records concerning employment as may be requested by that agency in determining compliance with the policy.

Print or type name of Contact Person:

Signed: _____

Title: _____

Company: _____

Date: _____

AFFIDAVIT OF BIDDER - NON-COLLUSION

Lansing School District
AFFIDAVIT OF BIDDER
SWORN STATEMENT
“Non-Collusion”

DATE: _____

The Bidder, by its officers and agents or representatives, present at the time of filing this bid, being duly sworn, on their oaths, say that neither they nor any of them, have in any way, directly or indirectly, entered into any arrangement or agreement with any other Bidder, whereby such affiant or affiants or either of them has paid or is to pay to such other Bidder any sum of money, or has given, or is to give, to such other Bidder anything of value whatever, or such affiant or affiants or either of them has not, directly or indirectly, entered into any arrangement or agreement with any other Bidder or Bidders, which tends to or does lessen or destroy free competition in the letting of the Contract sought for by the attached bids; that no inducement of any form or character other than that which appears upon the face of the bid, will be suggested, offered, paid or delivered to any person whomsoever to influence the acceptance of the said bid or awarding of the Contract, nor has this Bidder any agreement or understanding of any kind whatsoever, with any person whomsoever to pay, deliver to, or share with any other person in any way or manner, any of the proceeds of the Contract sought by this bid.

IN TESTIMONY WHEREOF, the Bidder (an authorized individual) has agrees to the above:

(Company Name)

By: _____
(Authorized Signer)

Print or type Name and Title of Signer

Address: _____

Notary Public: _____

Subscribed and sworn to before me on this _____ day of _____, 2016

County of: _____ My Commission expires: _____

Telephone number: _____

IRAN ECONOMIC SANCTIONS ACT CERTIFICATE

In accordance with the Iran Economic Sanctions Act, Michigan 2012 PA 517, effective April 1, 2013, (MCL 129.311, *et seq.*), (the "Act"), the undersigned certifies in support of its bid or proposal that it is not an Iran linked business as such is defined in the Act.

Contractor: _____

By: _____

Dated: _____

Name: _____

Title: _____

Act No. 517
Public Acts of 2012
Approved by the Governor
December 28, 2012
Filed with the Secretary of State
December 28, 2012
EFFECTIVE DATE: April 1, 2013

**STATE OF MICHIGAN
96TH LEGISLATURE
REGULAR SESSION OF 2012**

Introduced by Senators Kahn, Marleau, Brandenburg, Anderson, Green and Booher

ENROLLED SENATE BILL No. 1024

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.

The People of the State of Michigan enact:

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

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.

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.

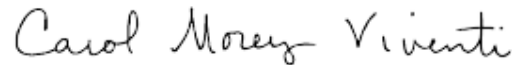
Sec. 4. If a public entity determines, using credible information available to the public, that a person has submitted a false certification under section 3(2), the public entity shall provide the person with written notice of its determination and of the intent not to enter into or renew a contract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

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.

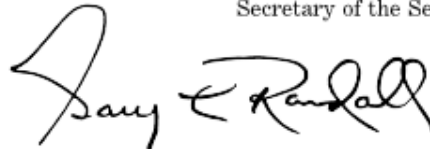
Sec. 6. The provisions of this act are effective only if Iran is a state sponsor of terror as defined under section 2 of the divestment from terror act, 2008 PA 234, MCL 129.292.

Enacting section 1. This act takes effect April 1, 2013.

This act is ordered to take immediate effect.



Secretary of the Senate



Clerk of the House of Representatives

LEGAL STATUS OF BIDDER

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER

RESPONSIBILITY MATTERS. The Vendor and/or Bidder certifies to the best of its knowledge and belief that it and its principals: Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency; Have not within a three-year period preceding this agreement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property; Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated above in this certification; and Have not within a three-year period preceding this agreement had one or more public transactions (Federal, State, or local) terminated for cause or default; is not now or has been, within a three-year period preceding this date, been listed on the Excluded Parties List System website (EPLS).

Vendor/contractor will notify the Lansing School District Purchasing Office immediately upon becoming suspended or debarred if there is any current or ongoing contract or agreement in place between the district and the vendor/contractor.

Firm Name:

Address:

Phone &

E-mail:

Name, title and signature of individual duly authorized to execute contracts:

The Owner, Principal, or Corporate Office of the responding firm is also attesting that all the information provided within this response is true.

Name:

Title:

Signature:

**A Corporation organized and existing under the laws of the
State of _____**

General Conditions and Instructions to Bidders

1. Proposals shall be submitted on forms furnished by the owner. The proposal shall be in accordance with the specifications listed, which are available at the Lansing School District Purchasing Office.

Any variance from the specifications shall be fully explained in writing by the bidder and all prices quoted shall be on a unit price basis.

2. MAILING OF PROPOSALS:

Proposals shall be mailed in an opaque, sealed envelope and shall be clearly marked describing the project upon which the bid is made.

3. No oral, telegraphic facsimile, or electronic mail proposals or modifications will be considered.

4. WITHDRAWAL OF BIDS:

Any bidder may withdraw their bid at any time prior to the scheduled time of opening the bids upon the presentation of proper identification. After the opening of the bids, no proposal shall be withdrawn for a period of ninety (90) days.

5. PROPOSAL FORMS AND SIGNATURES:

Proposals shall be made on the proper forms provided by the owner. All spaces shall be properly filled in with ink or typewriter. The signatures shall be in longhand in ink by an authorized representative.

6. BRANDS:

The naming of a manufacturer, brand or model number shall not be considered as excluding other brands or models. Specifically, similar products with comparable construction, material and workmanship shall be considered as equal. However, the Board of Education of the Lansing School District shall evaluate the merits of all bids submitted and reserves the right to accept or reject any or all bids.

It is the intent of the attached specifications to define the minimum quality of equipment acceptable. The product lines of nationally recognized manufacturers who regularly advertise, promote and distribute catalog products to the school market are required.

7. SAMPLES:

Samples shall be submitted upon request at the expense of each bidder. These samples will be retained as control items until the completion of the delivery and installation.

8. AGENDA:

Any modifications of contract documents will be issued in the form of an addendum.

All addenda issued during the bidding time shall become part of the specifications. A copy of the addendum shall be sent to all bidders. No verbal statements by the owner shall be considered as authoritative. No request for explanations can be processed within four (4) days immediately prior to the bid opening date.

9. VARIATIONS FROM MATERIALS SPECIFIED:

All variations from the specified material or equipment shall be fully explained and included with the bid. Manufacturer numbers shall be used in all cases.

10. No foreign products and services are to be used if a competitively priced domestic option of comparable quality is available.

11. ROYALTIES AND PATENTS:

The contract shall pay for all royalties and patents, and shall defend all suits for claims or infringements on patent rights and save the owner harmless from loss on account thereof.

12. CLEAN-UP:

The contractor shall at all times, keep the premises free from accumulations of waste materials or same caused by the work; and upon completing the work, shall remove all work related rubbish from and about the building and shall leave the work broom clean, or it equivalent. In the case of dispute, the owner may remove the rubbish and charge the cost to the contractor, as the owner shall determine.

General Conditions and Instructions to Bidders

13. FEDERAL, STATE AND MUNICIPAL TAXES:

Each proposal submitted shall include, and the contractor shall pay, all taxes which are levied by the Federal, State and Municipal Governments, on labor, and for materials entering into the work.

The owner reserves the right to require evidence of payment of such taxes prior to final payment. The school district is exempt from Federal Excise Tax.

14. QUALIFICATIONS OF BIDDERS:

The owner may request any or all bidders to submit any of the following information before the award of the contracts.

- A. A bidder's performance record
- B. The address and description of bidder's equipment, plant or permanent place of business.
- C. An itemized list of the bidder's equipment, plant and personnel.
- D. A bidder's financial statement.
- E. A description of any project which the bidder has completed.
- F. Such additional information as will satisfy the owner that the bidder is adequately prepared to fulfill the contract.
- G. Description of work which will be done simultaneously with the owner's project.

15. NOTICE OF AWARD:

The contracts shall be deemed as having been awarded when the formal notice of acceptance of their proposal has been duly served upon the intended awardees (normally by purchase order) by some officer or agent of the owner duly authorized to give such notice.

16. GUARANTEE:

Each contract shall furnish the owner a written guarantee running for one (1) year, or longer as required herein, after the final payment covering all work in the contract. Any defects in workmanship or materials for which a claim is submitted within this period shall be corrected.

17. DOCUMENTS:

The Proposals submitted shall be based upon the specifications contained herein.

18. RIGHTS OF ACCEPTANCE OR REJECTION:

The Board of Education of the Lansing School District reserves the right to reject any or all bids in whole or in part and to accept the bid or portion of bid that, in their opinion, best serves the interest of the School District.

19. Contractors and subcontractors are required not to discriminate against any employee or applicant for employment, to be employed in the performance of this contract, with respect to hire, tenure, terms, conditions or privileges of employment because of race, color, religion, national origin, or ancestry or also because of age or sex, except based on a bona fide occupational qualification. Breach of this covenant of purchasing agreement as provided in the Michigan Fair Employment Practices Act and may be processed there under. See Policy 6320.

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
3.1 Power Equip. Operator - Highway & Heavy			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$71.46	\$94.57	\$117.67
Apprentice: Level 1 0 - 6 Months	\$57.61	\$73.79	\$89.97
Apprentice: Level 2 7 -12 Months	\$59.93	\$77.28	\$94.61
Apprentice: Level 3 13 - 18 Months	\$62.23	\$80.73	\$99.21
Apprentice: Level 4 19 - 24 Months	\$64.54	\$84.19	\$103.83
Apprentice: Level 5 25 - 30 Months	\$66.85	\$87.66	\$108.45
Apprentice: Level 6 31 - 36 Months	\$69.15	\$91.10	\$113.05

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
3.2 Power Equip. Operator - Highway & Heavy	11/01/2025		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$70.31	\$92.84	\$115.37
Apprentice: Level 1 0 - 6 Months	\$56.81	\$72.59	\$88.37
Apprentice: Level 2 7 -12 Months	\$59.06	\$75.97	\$92.87
Apprentice: Level 3 13 - 18 Months	\$61.31	\$79.35	\$97.37
Apprentice: Level 4 19 - 24 Months	\$63.56	\$82.72	\$101.87
Apprentice: Level 5 25 - 30 Months	\$65.81	\$86.09	\$106.37
Apprentice: Level 6 31 - 36 Months	\$68.06	\$89.47	\$110.87

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
3.3 Power Equip. Operator - Highway & Heavy			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$63.58	\$82.75	\$101.91
Apprentice: Level 1 0 - 6 Months	\$52.10	\$65.53	\$78.95
Apprentice: Level 2 7 -12 Months	\$54.02	\$68.41	\$82.79
Apprentice: Level 3 13 - 18 Months	\$55.92	\$71.26	\$86.59
Apprentice: Level 4 19 - 24 Months	\$57.84	\$74.14	\$90.43
Apprentice: Level 5 25 - 30 Months	\$59.75	\$77.00	\$94.25
Apprentice: Level 6 31 - 36 Months	\$61.67	\$79.89	\$98.09

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name

Last Updated

3.4 Power Equip. Operator - Highway & Heavy

11/01/2025

Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$63.02	\$81.91	\$100.79
Apprentice: Level 1 0 - 6 Months	\$51.70	\$64.93	\$78.15
Apprentice: Level 2 7 -12 Months	\$53.59	\$67.76	\$81.93
Apprentice: Level 3 13 - 18 Months	\$55.48	\$70.60	\$85.71
Apprentice: Level 4	\$57.36	\$73.42	\$89.47
Apprentice: Level 5 25 - 30 Months	\$59.25	\$76.25	\$93.25
Apprentice: Level 6 31 - 36 Months	\$61.13	\$79.07	\$97.01

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
3.5 Power Equip. Operator - Highway & Heavy			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$44.80	\$60.98	\$77.15
Apprentice: Level 1 0 - 6 Months	\$35.09	\$46.42	\$57.73
Apprentice: Level 2 7 -12 Months	\$36.71	\$48.84	\$60.97
Apprentice: Level 3 13 - 18 Months	\$38.33	\$51.27	\$64.21
Apprentice: Level 4 19 - 24 Months	\$39.95	\$53.71	\$67.45
Apprentice: Level 5 25 - 30 Months	\$41.57	\$56.13	\$70.69
Apprentice: Level 6 31 - 36 Months	\$43.18	\$58.55	\$73.91

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
4.1 Power Equip. Operator - Commercial	10/31/2025		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$71.22	\$94.21	\$117.19
Apprentice: Level 1 0 - 6 Months	\$57.43	\$73.52	\$89.61
Apprentice: Level 2 7 - 12 Months	\$59.73	\$76.97	\$94.21
Apprentice: Level 3 13 - 18 Months	\$62.03	\$80.42	\$98.81
Apprentice: Level 4 19 - 24 Months	\$64.32	\$83.86	\$103.39
Apprentice: Level 5 25 - 30 Months	\$66.62	\$87.31	\$107.99
Apprentice: Level 6 31 - 36 Months	\$68.92	\$90.76	\$112.59

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name

Last Updated

4.2 Power Equip. Operator - Commercial

10/31/2025

Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$70.93	\$93.77	\$116.61
Apprentice: Level 1 0 - 6 Months	\$57.22	\$73.21	\$89.19
Apprentice: Level 2 7 - 12 Months	\$59.51	\$76.65	\$93.77
Apprentice: Level 3 13 - 18 Months	\$61.80	\$71.52	\$89.80
Apprentice: Level 4 19 - 24 Months	\$64.07	\$83.48	\$102.89
Apprentice: Level 5 25 - 30 Months	\$66.36	\$86.92	\$107.47
Apprentice: Level 6 31 - 36 Months	\$68.64	\$90.33	\$112.03

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
4.3 Power Equip. Operator - Commercial	11/01/2025		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$70.11	\$92.55	\$114.97
Apprentice: Level 1 0 - 6 Months	\$56.66	\$72.37	\$88.07
Apprentice: Level 2 7 - 12 Months	\$58.90	\$75.73	\$92.55
Apprentice: Level 3 13 - 18 Months	\$61.14	\$79.09	\$97.03
Apprentice: Level 4 19 - 24 Months	\$63.38	\$82.45	\$101.51
Apprentice: Level 5 25 -30 Months	\$65.63	\$85.82	\$106.01
Apprentice: Level 6 31 - 36 Months	\$67.87	\$89.18	\$110.49

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
4.4 Power Equip. Operator - Commercial			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$69.25	\$91.25	\$113.25
Apprentice: Level 1 0 - 6 Months	\$56.05	\$71.45	\$86.85
Apprentice: Level 2 7 - 12 Months	\$58.25	\$74.75	\$91.25
Apprentice: Level 3 13 -18 Months	\$60.45	\$78.06	\$95.65
Apprentice: Level 4 19 - 24 Months	\$62.65	\$81.35	\$100.05
Apprentice: Level 5 25 - 30 Months	\$64.85	\$84.66	\$104.45
Apprentice: Level 6 31 -36 Months	\$67.05	\$87.96	\$108.85

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
4.5 Power Equip. Operator - Commercial	11/01/2025		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$68.28	\$89.80	\$111.31
Apprentice: Level 1 0 - 6 Months	\$55.37	\$70.44	\$85.49
Apprentice: Level 2 7 -12 Months	\$57.53	\$73.68	\$89.81
Apprentice: Level 3 13 - 18 Months	\$61.83	\$80.12	\$98.41
Apprentice: Level 5 25 - 30 Months	\$63.98	\$83.35	\$102.71
Apprentice: Level 6 31 - 36 Months	\$66.13	\$86.58	\$107.01

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name

Last Updated

4.6 Power Equip. Operator - Commercial

11/01/2025

Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$66.57	\$87.24	\$107.89
Apprentice: Level 1 0 - 6 Months	\$54.17	\$68.64	\$83.09
Apprentice: Level 2 7 -12 Months	\$56.24	\$71.74	\$87.23
Apprentice: Level 3 13 - 18 Months	\$58.30	\$74.82	\$91.35
Apprentice: Level 4 19 -24 Months	\$60.37	\$77.93	\$95.49
Apprentice: Level 5 25 - 30 Months	\$62.44	\$81.04	\$99.63
Apprentice: Level 6 31 - 36 Months	\$64.50	\$84.13	\$103.75

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
4.7 Power Equip. Operator - Commercial			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$59.26	\$67.72	\$84.72
Apprentice: Level	\$54.15	\$68.61	\$83.05
Apprentice: Level 1 0 - 6 Months	\$49.05	\$60.95	\$72.85
Apprentice: Level 2 7 -12 Months	\$50.76	\$63.52	\$76.27
Apprentice: Level 3 13 - 18 Months	\$52.46	\$66.07	\$79.67
Apprentice: Level 5 25 - 30 Months	\$55.85	\$71.16	\$86.45
Apprentice: Level 6 31 - 36 Months	\$57.55	\$73.71	\$89.85

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
4.8 Power Equip. Operator - Commercial	11/01/2025		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$58.23	\$74.72	\$91.21
Apprentice: Level 1 0 - 6 Months	\$48.34	\$59.88	\$71.43
Apprentice: Level 2 7 -12 Months	\$49.99	\$62.37	\$74.73
Apprentice: Level 3 13 - 18 Months	\$51.63	\$64.82	\$78.01
Apprentice: Level 4 19 - 24 Months	\$53.29	\$67.31	\$81.33
Apprentice: Level 5 25 - 30 Months	\$54.93	\$69.78	\$84.61
Apprentice: Level 6 25 - 30 Months	\$56.59	\$72.27	\$87.93

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
5.1 Truck Driver Class			01/05/2026
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$54.10	\$70.52	\$86.94

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name		Last Updated		
Articulated Hauler		10/28/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$63.02	\$81.91	\$100.79
Apprentice: Apprentice Level 1		\$51.70	\$64.93	\$78.15
Apprentice: Apprentice Level 2		\$53.59	\$67.76	\$81.93
Apprentice: Apprentice Level 3		\$55.48	\$70.60	\$85.71
Apprentice: Apprentice Level 4		\$57.36	\$73.42	\$89.47
Apprentice: Apprentice Level 5		\$59.25	\$76.25	\$93.25
Apprentice: Apprentice Level 6		\$61.13	\$79.07	\$97.01

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Asbestos abatement worker or environmental remediation worker			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$56.20	\$73.24	\$90.28
Apprentice: Trainee 600 hours +1 year	\$43.12	\$55.01	\$66.90
Four 10-hour days allowed? - Yes			
Make Up Day Allowed? - No			

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
Boilermaker			10/29/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$79.64	\$119.12	\$158.58
Apprentice: 1st Period	\$58.07	\$86.78	\$115.44
Apprentice: 2nd Period	\$59.89	\$89.50	\$119.08
Apprentice: 3rd Period	\$61.81	\$92.24	\$122.74
Apprentice: 4th Period	\$63.50	\$94.91	\$126.30
Apprentice: 5th Period	\$65.26	\$97.54	\$129.82
Apprentice: 6th Period	\$68.89	\$103.00	\$137.08
Apprentice: 7th Period	\$72.46	\$108.36	\$144.22
Apprentice: 8th Period	\$76.07	\$113.77	\$151.44

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Boom Truck			10/28/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$70.31	\$92.84	\$115.37
Apprentice: Apprentice Level 1	\$56.81	\$72.59	\$88.37
Apprentice: Apprentice Level 2	\$59.06	\$75.97	\$92.87
Apprentice: Apprentice Level 3	\$61.31	\$79.35	\$97.37
Apprentice: Apprentice Level 4	\$63.56	\$82.72	\$101.87

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Bricklayer		10/29/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$62.02	\$78.47	\$94.91
Apprentice: Apprentice Level 1		\$42.58	\$52.77	\$62.95
Apprentice: Apprentice Level 2		\$44.48	\$55.62	\$66.75
Apprentice: Apprentice Level 3		\$46.38	\$58.47	\$70.55
Apprentice: Apprentice Level 4		\$48.29	\$61.33	\$74.37
Apprentice: Apprentice Level 5		\$50.19	\$50.19	\$50.19
Apprentice: Apprentice Level 6		\$52.09	\$67.03	\$81.97
Apprentice: Apprentice Level 7 & 8		\$53.99	\$69.88	\$85.77

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name		Last Updated		
Carpenters		02/26/2026		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$56.30	\$74.41	\$92.51
Apprentice: Apprentice 1st Year		\$46.56	\$59.24	\$71.91
Apprentice: Apprentice 2nd Year		\$48.37	\$61.95	\$75.53
Apprentice: apprentice 3rd Year		\$51.99	\$67.38	\$82.77
Apprentice: Apprentice 4th Year		\$55.61	\$72.81	\$90.01

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

If the job is delayed due to inclement weather, a make-up day on Friday may be scheduled by the Employer for completion of the forty (40) hour week. Make-up work scheduled for Friday shall not be less than eight (8) hours.

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Carpet layers (linoleum)		11/03/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$53.72	\$70.77	\$87.81
Apprentice: Level 1		\$43.49	\$55.42	\$67.35
Apprentice: Level 2		\$45.20	\$57.99	\$70.77
Apprentice: Level 3		\$48.61	\$63.10	\$77.59
Apprentice: Level 4		\$52.02	\$68.22	\$84.41

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Cement Mason		10/29/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$55.92	\$71.23	\$86.54
Apprentice: Apprentice Level 1		\$41.58	\$52.92	\$64.26
Apprentice: Apprentice Level 2		\$43.32	\$55.53	\$67.74
Apprentice: Apprentice Level 3		\$45.05	\$58.13	\$71.20
Apprentice: Apprentice Level 4		\$46.79	\$60.74	\$74.68
Apprentice: Apprentice Level 5 & 6		\$48.52	\$63.33	\$78.14
Four 10-hour days allowed? - No				
Make Up Day Allowed? - No				

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Drywall Taper			10/31/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$51.67	\$68.44	\$85.21
Apprentice: Apprentice Level 1	\$39.93	\$50.83	\$61.73
Apprentice: Apprentice Level 2	\$43.29	\$55.87	\$68.45
Apprentice: Apprentice Level 3	\$48.32	\$63.42	\$78.51

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Drywall Taper			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$51.64	\$67.18	\$82.72
Apprentice: Level 1	\$39.21	\$48.54	\$57.86
Apprentice: Level 2	\$45.42	\$57.85	\$70.28
Apprentice: Level 3	\$48.53	\$62.52	\$76.50

Four 10-hour days allowed? - Yes
Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Electrician		10/31/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$85.79	\$115.70	\$145.60
Apprentice: Apprentice Level 1		\$49.08	\$60.64	\$72.18
Apprentice: Apprentice Level 2		\$55.89	\$70.85	\$85.80
Apprentice: Apprentice Level 3		\$61.86	\$79.81	\$97.74
Apprentice: Apprentice Level 4		\$67.85	\$88.79	\$109.72
Apprentice: Apprentice Level 5		\$73.83	\$97.77	\$121.68
Apprentice: Apprentice Level 6		\$79.81	\$106.74	\$133.64

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Additional Jurisdiction Detail: Townships of Onondaga, Leslie, Stockbridge and Bunker Hill ONLY.

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Electricians		10/31/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$76.37	\$100.11	\$123.85
Apprentice: Apprentice Level 1		\$32.70	\$43.72	\$54.07
Apprentice: Apprentice Level 2		\$35.07	\$46.93	\$58.80
Apprentice: Apprentice Level 3		\$39.74	\$52.80	\$65.86
Apprentice: Apprentice Level 4		\$53.90	\$69.34	\$84.76
Apprentice: Apprentice Level 5		\$56.28	\$72.90	\$89.51
Apprentice: Apprentice Level 6		\$58.64	\$76.45	\$94.25

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Additional Jurisdiction Detail: All Locations not specified in Ingham County

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Elevator Constructor			10/29/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$110.76	\$143.49	\$176.21
Apprentice: 4th Year	\$95.57	\$121.75	\$147.93

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Elevator Constructors			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$110.76	\$143.49	\$176.21

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Glaziers		10/31/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$56.55	\$76.37	\$96.20
Apprentice: Level 1		\$40.70	\$52.61	\$64.50
Apprentice: Level 2		\$44.66	\$58.55	\$72.42
Apprentice: Level 3		\$48.63	\$64.50	\$80.36
Apprentice: Level 4		\$52.59	\$70.44	\$88.28

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Ground Person			11/01/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$50.85	\$72.32	\$93.78

Four 10-hour days allowed? - Yes
Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Heating and frost Insulators			11/03/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$63.85	\$83.85	\$103.85
Apprentice: 1st period	\$44.28	\$56.28	\$68.28
Apprentice: 2nd period	\$49.17	\$63.17	\$77.17
Apprentice: 3rd period	\$54.06	\$70.06	\$86.06
Apprentice: 4th period	\$58.96	\$76.96	\$94.96

Four 10-hour days allowed? - Yes
Make Up Day Allowed? - Yes
Friday for cancelled work in a 4 10 schedule

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Ironworker		10/31/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$75.42	\$93.70	\$111.97
Apprentice: Apprentice Level 1		\$57.42	\$70.40	\$83.37
Apprentice: Apprentice Level 2		\$59.59	\$73.12	\$86.64
Apprentice: Apprentice Level 3		\$61.54	\$75.43	\$89.32
Apprentice: Apprentice Level 4		\$64.59	\$79.40	\$94.20
Apprentice: Apprentice Level 5		\$67.64	\$83.36	\$99.07
Apprentice: Apprentice Level 6		\$75.42	\$93.70	\$111.97

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Laborer, Common - Commercial		11/04/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$46.28	\$62.55	\$78.81
Apprentice: Apprentice Level 1		\$38.15	\$45.45	\$56.02
Apprentice: Apprentice Level 2		\$39.77	\$47.57	\$58.84
Apprentice: Apprentice Level 3		\$41.40	\$49.68	\$61.66
Apprentice: Apprentice Level 4		\$44.65	\$53.91	\$67.29

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Laborer, Common - Highway & Heavy		11/05/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$48.27	\$62.46	\$76.64
Apprentice: Level 1		\$41.09	\$51.73	\$62.37
Apprentice: Level 2		\$42.51	\$53.86	\$65.21
Apprentice: Level 3		\$43.92	\$55.98	\$68.03
Apprentice: Level 4		\$46.76	\$60.24	\$73.71

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Laborer, Landscaping			11/03/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$36.87	\$49.23	\$61.58
Apprentice: Apprentice Level 1	\$30.69	\$39.96	\$49.22
Apprentice: Apprentice Level 2	\$31.93	\$41.82	\$51.70
Apprentice: Apprentice Level 3	\$33.16	\$43.66	\$54.16
Apprentice: Apprentice Level 4	\$35.63	\$47.37	\$59.10

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Laborer, Skilled - Highway & Heavy		11/05/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$49.27	\$63.96	\$78.64
Apprentice: Apprentice Level 1		\$41.84	\$52.86	\$63.87
Apprentice: Apprentice Level 2		\$43.31	\$55.06	\$66.81
Apprentice: Apprentice Level 3		\$44.68	\$57.16	\$69.64
Apprentice: Apprentice Level 4		\$47.71	\$61.66	\$75.61

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Landscaping equipment			10/28/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$39.09	\$52.56	\$66.02

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name		Last Updated		
Lineman		10/30/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$76.81	\$111.26	\$145.70
Apprentice: Level 1 0-1000 hours		\$49.26	\$69.94	\$90.60
Apprentice: Level 2 1001-2000 Hours		\$52.71	\$75.11	\$97.50
Apprentice: Level 3 2001-3000 Hours		\$56.15	\$80.28	\$104.38
Apprentice: Level 4 3001-4000 hours		\$59.60	\$85.44	\$111.28
Apprentice: Level 5 4001-5000 Hours		\$63.04	\$90.60	\$118.16
Apprentice: Level 6 5001-6000 Hours		\$66.48	\$95.77	\$125.04
Apprentice: Level 7		\$69.93	\$100.94	\$131.94

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Low Voltage Technician		02/23/2026		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$58.68	\$77.15	\$95.62
Apprentice: Level 1		\$36.50	\$46.66	\$56.82
Apprentice: Level 2		\$38.96	\$50.05	\$61.12
Apprentice: Level 3		\$41.41	\$53.41	\$65.43
Apprentice: Level 4		\$43.88	\$56.81	\$69.74
Apprentice: Level 5		\$46.37	\$60.22	\$74.08
Apprentice: Level 6		\$48.82	\$63.60	\$78.38

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Additional Jurisdiction Detail: All Locations not specified in Ingham County

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Low Voltage Technician		10/30/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$57.92	\$78.07	\$98.22
Apprentice: Apprentice Level 1		\$37.77	\$47.85	\$57.92
Apprentice: Apprentice Level 2		\$41.80	\$53.89	\$65.98
Apprentice: Apprentice Level 3		\$45.83	\$59.94	\$74.04
Apprentice: Apprentice Level 4		\$49.86	\$66.00	\$82.10
Apprentice: Apprentice Level 5		\$53.91	\$72.07	\$90.20
Apprentice: Apprentice Level 6		\$55.92	\$75.08	\$94.22

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Additional Jurisdiction Detail: Townships of Onondaga, Leslie, Stockbridge and Bunker Hill ONLY.

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Millwright			11/05/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$82.65	\$126.09	\$165.30
Apprentice: Level 1	\$60.79	\$91.21	\$121.58
Apprentice: Level 2	\$68.09	\$102.15	\$136.18
Apprentice: Level 3	\$75.36	\$113.05	\$150.72
Apprentice: Level 4	\$79.01	\$118.54	\$158.02

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Off-Road Truck			10/29/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$63.02	\$81.91	\$100.79
Apprentice: Apprentice Level 1	\$51.70	\$64.93	\$78.15
Apprentice: Apprentice Level 2	\$53.59	\$67.76	\$81.93
Apprentice: Apprentice Level 3	\$55.48	\$70.60	\$85.71
Apprentice: Apprentice Level 4	\$57.36	\$73.42	\$89.47
Apprentice: Apprentice Level 5	\$59.25	\$76.25	\$93.25
Apprentice: Apprentice Level 6	\$61.13	\$79.07	\$97.01

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Painter		10/31/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$50.90	\$67.19	\$83.48
Apprentice: Apprentice Level 1		\$37.87	\$47.65	\$57.42
Apprentice: Apprentice Level 2		\$41.13	\$52.54	\$63.94
Apprentice: Apprentice Level 3		\$44.38	\$57.41	\$70.44
Apprentice: Apprentice Level 4		\$47.64	\$62.30	\$76.96

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Painter			10/31/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$46.79	\$61.17	\$75.54
Apprentice: Apprentice Level 1	\$35.29	\$43.92	\$52.54
Apprentice: Apprentice Level 2	\$38.17	\$48.24	\$58.30
Apprentice: Apprentice Level 3	\$41.04	\$52.54	\$64.04
Apprentice: Apprentice Level 4	\$43.92	\$56.86	\$69.80

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Piledriver		02/26/2026		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$57.42	\$75.53	\$93.63
Apprentice: Apprentice 1st Year		\$46.56	\$59.24	\$71.91
Apprentice: Apprentice 2nd Year		\$48.37	\$61.95	\$75.53
Apprentice: Apprentice 3rd Year		\$51.99	\$67.38	\$82.77
Apprentice: Apprentice 4th Year		\$55.61	\$72.81	\$90.01

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name

Last Updated

Pipefitters—Steamfitters

11/03/2025

Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$71.77	\$107.66	\$143.54
Apprentice: Level 1 0 - 6 Months	\$46.31	\$69.47	\$92.62
Apprentice: Level 10 55 - 60 Months	\$67.14	\$100.71	\$134.28
Apprentice: Level 2 7 -12 Months	\$48.62	\$72.93	\$97.24
Apprentice: Level 3 13 - 18 Months	\$50.94	\$76.41	\$101.88
Apprentice: Level 4 19 - 24 Months	\$53.25	\$79.88	\$106.50
Apprentice: Level 5 25 - 30 Months	\$55.57	\$83.36	\$111.14
Apprentice: Level 6 31 - 36 Months	\$57.88	\$86.82	\$115.76
Apprentice: Level 7 37 - 42 Months	\$60.20	\$90.30	\$120.40
Apprentice: Level 8 43 - 48 Months	\$62.51	\$93.77	\$125.02
Apprentice: Level 9 49 - 54 Months	\$64.83	\$97.25	\$129.66

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Plasterer		10/29/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$58.97	\$74.78	\$90.58
Apprentice: Apprentice Level 1		\$44.44	\$56.09	\$67.74
Apprentice: Apprentice Level 2		\$46.24	\$58.79	\$71.34
Apprentice: Apprentice Level 3		\$48.03	\$61.48	\$74.92
Apprentice: Apprentice Level 4		\$49.83	\$64.18	\$78.52
Apprentice: Apprentice Level 5 & 6		\$51.63	\$66.88	\$82.12

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name			Last Updated
Plumbers			10/31/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$71.77	\$107.66	\$143.54
Apprentice: Level 1 6 Months	\$46.31	\$69.46	\$92.62
Apprentice: Level 10 5 years - 5.5 Years	\$67.14	\$100.71	\$134.28
Apprentice: Level 3 1 Year - 1.5 Years	\$50.94	\$76.41	\$101.88
Apprentice: Level 4 1.5 Years - 2 years	\$53.25	\$79.88	\$106.50
Apprentice: Level 5 2 Years- 2.5 Years	\$55.57	\$83.36	\$111.14
Apprentice: Level 6 2.5 Years - 3 Years	\$57.88	\$86.82	\$115.76
Apprentice: Level 6 Months - 1 Year	\$48.62	\$72.93	\$97.24
Apprentice: Level 7 3 Years - 3.5 Years	\$60.20	\$90.30	\$120.40
Apprentice: Level 8 3.5 Years - 4 Years	\$62.51	\$93.77	\$125.02
Apprentice: Level 9 4.5 Years - 5 Years	\$64.83	\$97.25	\$129.66

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name

Last Updated

Roofer/Waterproofer

10/31/2025

Wage Rates

Straight Time

Time and a Half

Double Time

Journeyman

\$54.39

\$71.47

\$88.54

Apprentice: 3rd Class Apprentice

\$42.80

\$54.45

\$66.10

Apprentice: Apprentice Level 1

\$38.80

\$48.54

\$58.27

Apprentice: Apprentice Level 2

\$40.91

\$51.65

\$62.38

Apprentice: Apprentice Level 3

\$42.96

\$54.61

\$66.26

Apprentice: Apprentice Level 4

\$44.93

\$57.62

\$70.31

Apprentice: Apprentice Level 6

\$49.18

\$63.89

\$78.59

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday is the makeup day and shall be paid at the straight time rate until over forty hours apply

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Sheet Metal Worker		04/16/2026		
Wage Rates	Straight Time	Time and a Half	Double Time	
Journeyman	\$68.37	\$91.40	\$114.42	
Apprentice: Level 1	\$35.72	\$47.23	\$58.74	
Apprentice: Level 2	\$43.27	\$57.09	\$70.90	
Apprentice: Level 3	\$54.55	\$70.66	\$86.78	
Apprentice: Level 4	\$59.16	\$77.58	\$96.00	

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name			Last Updated
Sheet Metal Workers			10/31/2025
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$67.48	\$86.53	\$105.58
Apprentice: Level 1	\$36.88	\$48.31	\$59.74
Apprentice: Level 2	\$38.98	\$51.37	\$63.75
Apprentice: Level 3	\$45.95	\$59.29	\$72.62
Apprentice: Level 4	\$50.14	\$65.38	\$80.62

Four 10-hour days allowed? - No
Make Up Day Allowed? - No

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name		Last Updated		
Sprinkler Fitters		11/03/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$60.34	\$78.45	\$96.56
Apprentice: Class 1		\$24.57	\$32.72	\$40.87
Apprentice: Class 10		\$52.07	\$68.37	\$84.67
Apprentice: Class 2		\$26.38	\$35.43	\$44.49
Apprentice: Class 3		\$39.14	\$49.10	\$59.06
Apprentice: Class 4		\$40.95	\$51.82	\$62.68
Apprentice: Class 5		\$43.01	\$54.78	\$66.55
Apprentice: Class 6		\$44.82	\$57.49	\$70.17
Apprentice: Class 7		\$46.63	\$60.21	\$73.79
Apprentice: Class 8		\$48.45	\$62.94	\$77.43
Apprentice: Class 9		\$50.26	\$65.65	\$81.05

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name		Last Updated		
Terrazzo Workers		04/17/2026		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$56.86	\$72.84	\$88.81
Apprentice: Level 1		\$43.04	\$53.11	\$63.17
Apprentice: Level 2		\$44.96	\$55.99	\$67.01
Apprentice: Level 3		\$46.55	\$58.37	\$70.19
Apprentice: Level 4		\$48.47	\$61.25	\$74.03
Apprentice: Level 5		\$51.98	\$66.52	\$81.05
Apprentice: Level 6 and 7		\$53.90	\$69.40	\$84.89

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Tile Finishers		04/17/2026		
Wage Rates	Straight Time	Time and a Half	Double Time	
Journeyman	\$49.30	\$62.80	\$76.30	
Apprentice: Level 1	\$40.55	\$50.68	\$60.80	
Apprentice: Level 2	\$42.17	\$53.11	\$64.04	
Apprentice: Level 3	\$43.79	\$55.53	\$67.28	
Apprentice: Level 4	\$45.14	\$57.56	\$69.98	
Apprentice: Level 5	\$46.76	\$59.99	\$73.22	

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects

Official Rate Schedule

Ingham

Classification Name	Last Updated		
Tile Setters	04/17/2026		
Wage Rates	Straight Time	Time and a Half	Double Time
Journeyman	\$56.36	\$72.09	\$87.81
Apprentice: Level 1	\$42.72	\$52.63	\$62.53
Apprentice: Level 2	\$44.61	\$55.46	\$66.31
Apprentice: Level 3	\$46.18	\$57.82	\$69.45
Apprentice: Level 4	\$48.07	\$60.65	\$73.23
Apprentice: Level 5	\$51.53	\$65.84	\$80.15
Apprentice: Level 6	\$53.42	\$68.68	\$83.93

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Tunnel Miner		11/03/2025		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$52.82	\$70.02	\$87.22
Apprentice: Level 1		\$44.22	\$57.12	\$70.02
Apprentice: Level 2		\$45.94	\$59.70	\$73.46
Apprentice: Level 3		\$47.66	\$62.28	\$76.90
Apprentice: Level 4		\$51.10	\$61.35	\$75.66

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Of Michigan Funded Projects
Official Rate Schedule
Ingham

Classification Name		Last Updated		
Underground and Open Cut Laborer		01/06/2026		
Wage Rates		Straight Time	Time and a Half	Double Time
Journeyman		\$48.76	\$63.91	\$79.05
Apprentice: Level 1		\$41.19	\$52.55	\$63.91
Apprentice: Level 2		\$42.70	\$54.82	\$66.93
Apprentice: Level 3		\$44.22	\$57.10	\$69.97
Apprentice: Level 4		\$47.25	\$61.64	\$76.03

Four 10-hour days allowed? - Yes
Make Up Day Allowed? - Yes

policy

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LANSING SCHOOL DISTRICT**

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PURCHASING

Procurement of all supplies, materials, equipment, and services paid for from District funds shall be made in accordance with all applicable Federal and State statutes, Board policies, and administrative procedures. Standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award, and administration of contracts are established in Policy 1130, Policy 3110, and Policy 4110 – Conflict of Interest.

All procurement transactions shall be conducted in a manner that encourages full and open competition and in accordance with good administrative practice and sound business judgement.

Each year the State of Michigan informs the School of the legal amount for purchases which require a formal bidding process of a single item.

It is the policy of the Board that the Superintendent adhere to the following:

- A. Seek informal price quotations on purchases in excess of \$3,000.
- B. When the purchase of, and contract for, single items of supplies, materials, or equipment is less than the amount allowed by State statute, but exceeds \$10,000 the Superintendent shall whenever possible, require three (3) competitive price quotations.

Purchases in a single transaction that are in excess of the dollar amount permitted by State statute shall require competitive bids and, whenever possible, have at least three (3) such bids for substantiation of purchase and shall require approval of the Board prior to purchase.

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Competitive Bids

Competitive bids are not required for items purchased through the cooperative bulk purchasing program operated by the Michigan Department of Management and Budget pursuant to M.C.L. 18.1263.

Competitive bids are not required for food purchases, unless food purchased in a single transaction costs \$100,000 or more.

When food purchased in a single transaction exceeds \$100,000, the Superintendent shall, whenever possible, require three (3) competitive price quotations.

Bids shall be sealed and shall be opened by the Director of Purchasing in the presence of at least one (1) witness. All orders or contracts should be awarded to the lowest responsible bidder; however, consideration can be given to:

- A. the quality of the item(s) to be supplied;
- B. its conformity with specifications;
- C. suitability to the requirements of the school;
- D. delivery terms;
- E. past performance of vendor.

In addition to the factors above, the Board may consider and provide a preference to bidders

- A. which use a Michigan-based business as the primary contractor.
- B. which use one (1) or more Michigan-based business as subcontractors.

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BOARD OF EDUCATION LANSING SCHOOL DISTRICT

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For purposes of this preference a Michigan-based business means a business that would qualify for a Michigan preference for procurement contracts under M.C.L. 18.1268, which requires that the businesses certify that since inception or during the last twelve (12) months it has done one of the following:

- A. have filed a Michigan business tax return showing an allocation of income tax base to Michigan
- B. have filed a Michigan income tax return showing income generated in or attributed to Michigan
- C. withheld Michigan income tax from compensation paid to the bidder's owners and remitted the tax to the Michigan Department of Treasury

This preference shall not apply to any procurement or project using Federal funds, nor shall it be used if it would violate any Federal law or requirements.

The Board reserves the right to reject any and all bids.

Contracts may be awarded by the Superintendent without Board approval for any single item or group of identical items costing less than the dollar amount permitted by State Statute. All other contracts require Board approval prior to purchase.

Bid Protest

A bidder who wishes to file a bid protest must file such notice and follow procedures prescribed by the Request For Proposals (RFP) or the individual bid specifications package, for resolution. Bid protests must be filed in writing with the Office of the Superintendent within seventy-two (72) hours of the opening of the bids in protest.

Within five (5) days of receipt of a protest, the Superintendent shall review the protest as submitted and render a decision regarding the merits of the protest and any impact on the acceptance and rejection of bids submitted. Notice of the filing of a bid protest shall be communicated to the Board and shall be so noted in any subsequent recommendation for the acceptance of bids and awarding of contracts.

Failure to file a notice of intent to protest, or failure to file a formal written protest within the time prescribed, shall constitute a waiver of proceedings.

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BOARD OF EDUCATION LANSING SCHOOL DISTRICT

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General Provisions

The Superintendent is authorized to purchase all items within budget allocations.

The Board should be advised, for prior approval, of all purchases of equipment, materials, and services when the purchase

- A. was not contemplated during the budgeting process.
- B. exceeds the previously Board approved amount by ten percent (10%).

The Superintendent is authorized to make emergency purchases, without prior approval, of those goods and/or services needed to keep the school in operation. Such purchases shall be brought to the Board's attention at the next regular meeting.

In order to promote efficiency and economy in the operation of the school, the Board requires that the Superintendent periodically estimate requirements for standard items or classes of items and make quantity purchases on a bid basis to procure the lowest cost consistent with good quality.

Whenever storage facilities or other conditions make it impractical to receive total delivery at any one time, the total quantity to be shipped but with staggered delivery dates, shall be made a part of the bid specifications.

Before placing a purchase order, the Superintendent shall check as to whether the proposed purchase is subject to bid, whether sufficient funds exist in the budget, and whether the material might be available elsewhere in the school. All purchase orders shall be numbered consecutively.

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The Superintendent shall determine the amount of purchase which shall be allowed without a properly signed purchase order. Employees may be held personally responsible for anything purchased without a properly signed purchase order or authorization.

The Board may acquire office equipment as defined in law by lease, by installment payments, by entering into lease-purchase agreements, or by lease with an option to purchase, provided the contract sets forth the terms of such a purchase.

Procurement – Federal Grants

The Superintendent shall maintain a procurement and contract administration system in accordance with the USDOE requirements (34 CFR 80.36) for the administration and management of Federal grants and federally-funded programs. The District shall maintain a compliance system that requires contractors to perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders. Except as otherwise noted, procurement transactions shall conform to the provisions of this policy and administrative guidelines (AG 6320).

M.C.L. 380.1267, 380.1274 et seq.

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policy

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NEW SCHOOL CONSTRUCTION, RENOVATION

Before beginning construction of a new school building, or an addition, repair or renovation of an existing school building, except emergency repairs, the Board of Education, shall obtain competitive bids on all the material and labor required for the complete construction of a proposed new building or addition to or repair or renovation of an existing school building which exceeds the State statutory limit.

This policy does not apply to buildings, renovations, or repairs costing less than the statutory limit or to repair work normally performed by District employees.

The Board shall advertise for the bids required under subsection:

- A. By placing an advertisement for bids at least once in a newspaper of general circulation in the area where the building or addition is to be constructed or where the repair or renovation of an existing building is to take place and by posting an advertisement for bids for at least two (2) weeks on the Department of Management and Budget website on a page on the website maintained for this purpose or on a website maintained by a school organization and designated by the Department of Management and Budget for this purpose.
- B. By submitting the request for bids for placement on the Michigan Department of Management and Budget's website for school organizations, including a link to the District's website.
- C. The advertisement for bids shall do all of the following:
 - 1. specify the date and time by which all bids must be received by the Board at a designated location;
 - 2. state that the Board will not consider or accept a bid received after the date and time specified for bid submission;
 - 3. identify the time, date, and place of a public meeting at which the Board or its designee will open and read aloud each bid received by the Board by the date and time specified in advertisement;

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**BOARD OF EDUCATION
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4. state that the bid shall be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Board or the Superintendent of the District. A Board shall not accept a bid that does not include this sworn and notarized disclosure statement.
- D. The Board shall require each bidder for a contract under this policy, to file with the Board security in an amount not less than 1/20 of the amount of the bid conditioned to secure the District from loss or damage by reason of the withdrawal of the bid or by the failure of the bidder to enter a contract for performance, if the bid is accepted by the Board.
- E. The Board shall not open, consider, or accept a bid that the Board receives after the date and time specified for bid submission in the advertisement for bids as described in subsection C of this policy.
- F. At a public meeting identified in the advertisement for bids described in subsection C of this policy, the Board or its designee shall open and read aloud each bid that the Board received at or before the time and date for bid submission specified in the advertisement for bids. The Board may reject any or all bids, and if all bids are rejected, shall readvertise in the manner required by this policy.

The Board may consider and provide a preference to bidders:

1. which use a Michigan-based business as the primary contractor.
2. which use one (1) or more Michigan-based business(es) as subcontractors.

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For purposes of this preference a Michigan-based business means a business that would qualify for a Michigan preference for procurement contracts under M.C.L. 18.1268, which requires that the businesses certify that since inception or during the last twelve (12) months it has done one of the following:

1. have filed a Michigan business tax return showing an allocation of income tax base to Michigan
2. have filed a Michigan income tax return showing income generated in or attributed to Michigan
3. withheld Michigan income tax from compensation paid to the bidder's owners and remitted the tax to the Michigan Department of Treasury

This preference shall not apply to any procurement or project using Federal funds, nor shall it be used if it would violate any Federal law or requirements.

- G. The competitive bid threshold amount specified in this policy (\$20,959 for 2009) is adjusted each year by multiplying the amount for the immediately preceding year by the percentage by which the average consumer price index for all items for the twelve (12) months ending August 31st of the year in which the adjustment is made differs from that index's average for the twelve (12) months ending on August 31st of the immediately preceding year and adding that product to the maximum amount that applied in the immediately preceding year, rounding to the nearest whole dollar. The current exempt amount must be confirmed with the Michigan Department of Education prior to issuing contracts for construction, renovation, or repair which exceed the amount listed in this policy.

M.C.L. 380.1267

NEW POLICY - VOL. 30, NO. 2

PROCUREMENT – FEDERAL GRANTS/FUNDS

Procurement of all supplies, materials, equipment, and services paid for from Federal funds or District matching funds shall be made in accordance with all applicable Federal, State, and local statutes and/or regulations, the terms and conditions of the Federal grant, Board of Education policies, and administrative procedures.

The Superintendent shall maintain a procurement and contract administration system in accordance with the USDOE requirements (2 CFR 200.317-.326) for the administration and management of Federal grants and Federally-funded programs. The District shall maintain a contract administration system that requires contractors to perform in accordance with the terms, conditions, and specifications of their contracts or purchase orders. Except as otherwise noted, procurement transactions shall conform to the provisions of the District's documented general purchasing Policy 6320 and AG 6320.

All District employees, officers, and agents who have purchasing authority shall abide by the standards of conduct covering conflicts of interest and governing the actions of its employees, officers, and agents engaged in the selection, award, and administration of contracts as established in Policy 1130, Policy 3110 and Policy 4110 – Conflict of Interest.

The District will avoid acquisition of unnecessary or duplicative items. Additionally, consideration shall be given to consolidating or breaking out procurements to obtain a more economical purchase. And, where appropriate, an analysis shall be made of lease versus purchase alternatives, and any other appropriate analysis to determine the most economical approach. These considerations are given as part of the process to determine the allowability of each purchase made with Federal funds.

To foster greater economy and efficiency, the District may enter into State and local intergovernmental agreements where appropriate for procurement or use of common or shared goods and services.

Competition

All procurement transactions shall be conducted in a manner that encourages full and open competition and that is in accordance with good administrative practice and sound business judgement. In order to promote objective contractor

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performance and eliminate unfair competitive advantage, the District shall exclude any contractor that has developed or drafted specifications, requirements, statements of work, or invitations for bids or requests for proposals from competition for such procurements.

Some of the situations considered to be restrictive of competition include, but are not limited to, the following:

- A. unreasonable requirements on firms in order for them to qualify to do business;
- B. unnecessary experience and excessive bonding requirements;
- C. noncompetitive contracts to consultants that are on retainer contracts;
- D. organizational conflicts of interest;
- E. specification of only a “brand name” product instead of allowing for an “*or equal*” product to be offered and describing the performance or other relevant requirements of the procurement; and
- F. any arbitrary action in the procurement process.

Further, the District does not use statutorily or administratively imposed State, local, or tribal geographical preferences in the evaluation of bids or proposals, unless (1) an applicable Federal statute expressly mandates or encourages a geographic preference; or (2) the District is contracting for architectural and engineering services, in which case geographic location may be a selection criterion provided its application leaves an appropriate number of qualified firms, given the nature and size of the project, to compete for the contract.

To the extent that the District uses a pre-qualified list of persons, firms or products to acquire goods and services, the pre-qualified list includes enough qualified sources as to ensure maximum open and free competition. The District allows vendors to apply for consideration to be placed on the list annually.

Solicitation Language

The District shall require that all solicitations incorporate a clear and accurate description of the technical requirements for the material, product, or service to be procured. Such description shall not, in competitive procurements, contain features which unduly restrict competition. The description may include a statement of the qualitative nature of the material, product or service to be procured and, when necessary, shall set forth those minimum essential characteristics and standards to which it shall conform if it is to satisfy its intended use. Detailed product specifications should be avoided if at all possible.

When it is impractical or uneconomical to make a clear and accurate description of the technical requirements, a “brand name or equivalent” description may be used as a means to define the performance or other salient requirements of procurement. The specific features of the named brand which shall be met by offers shall be clearly stated; and identify all requirements which the offerors shall fulfill and all other factors to be used in evaluating bids or proposals.

The Board will not approve any expenditure for an unauthorized purchase or contract.

Procurement Methods

The District shall utilize the following methods of procurement:

Micro-purchases

Procurement by micropurchase is the acquisition of supplies or services, the aggregate dollar amount of which does not exceed \$3000. To the extent practicable, the District shall distribute micro-purchases equitably among qualified suppliers. Micro-purchases may be made without soliciting competitive quotations if Superintendent considers the price to be reasonable. The District maintains evidence of this reasonableness in the records of all purchases made by this method.

Small Purchases

Small purchase procedures provide for relatively simple and informal procurement methods for securing services, supplies, and other property that does not exceed the competitive bid threshold established annually by the State. Small purchase procedures require that price or rate quotations shall be obtained from an adequate number of qualified sources.

Sealed Bids

Sealed, competitive bids shall be obtained when the purchase of, and contract for, single items of supplies, materials, or equipment which amounts to the amount allowed by Michigan statute and when the Board determines to build, repair, enlarge, improve, or demolish a school building/facility the cost of which will exceed the amount allowed by Michigan statute.

In order for sealed bidding to be feasible, the following conditions shall be present:

1. a complete, adequate, and realistic specification or purchase description is available;
2. two (2) or more responsible bidders are willing and able to compete effectively for the business; and
3. the procurement lends itself to a firm fixed price contract and the selection of the successful bidder can be made principally on the basis of price.

When sealed bids are used, the following requirements apply:

1. Bids shall be solicited in accordance with the provisions of State law and Policy 6320. Bids shall be solicited from an adequate number of qualified suppliers, providing sufficient response time prior to the date set for the opening of bids. The invitation to bid shall be publicly advertised.
2. The invitation for bids will include product/contract specifications and pertinent attachments and shall define the items and/or services required in order for the bidder to properly respond.
3. All bids will be opened at the time and place prescribed in the invitation for bids; bids will be opened publicly.

4. A firm fixed price contract award will be made in writing to the lowest responsive and responsible bidder. Where specified in bidding documents, factors such as discounts, transportation cost, and life cycle costs shall be considered in determining which bid is lowest. Payment discounts may only be used to determine the low bid when prior experience indicates that such discounts are usually taken.
5. The Board reserves the right to reject any or all bids for sound documented reason.

Competitive Proposals

Procurement by competitive proposal, normally conducted with more than one source submitting an offer, is generally used when conditions are not appropriate for the use of sealed bids or in the case of a recognized exception to the sealed bid method.

If this method is used, the following requirements apply:

1. Requests for proposals shall be publicized and identify all evaluation factors and their relative importance. Any response to the publicized requests for proposals shall be considered to the maximum extent practical.
2. Proposals shall be solicited from an adequate number of sources.
3. The District shall use its written method for conducting technical evaluations of the proposals received and for selecting recipients.

4. Contracts shall be awarded to the responsible firm whose proposal is most advantageous to the program, with price and other factors considered.

The District may use competitive proposal procedures for qualifications-based procurement of architectural/engineering (A/E) professional services whereby competitors' qualifications are evaluated and the most qualified competitor is selected, subject to negotiation of fair and reasonable compensation. The method, where price is not used as a selection factor, can only be used in procurement of A/E professional services. It cannot be used to purchase other types of services though A/E that firms are a potential source to perform the proposed effort.

Noncompetitive Proposals

Procurement by noncompetitive proposals allows for solicitation of a proposal from only one source and may be used only when one or more of the following circumstances apply:

1. the item is available only from a single source
2. the public exigency or emergency for the requirement will not permit a delay resulting from competitive solicitation
3. the Federal awarding agency or pass-through entity expressly authorizes noncompetitive proposals in response to a written request from the District
4. after solicitation of a number of sources, competition is determined to be inadequate

Contract/Price Analysis

The District shall perform a cost or price analysis in connection with every procurement action in excess of \$150,000, including contract modifications. A cost analysis generally means evaluating the separate cost elements that make up the total price, while a price analysis means evaluating the total price, without looking at the individual cost elements.

The method and degree of analysis is dependent on the facts surrounding the particular procurement situation; however, the District shall come to an independent estimate prior to receiving bids or proposals.

When performing a cost analysis, the District shall negotiate profit as a separate element of the price. To establish a fair and reasonable profit, consideration is given to the complexity of the work to be performed, the risk borne by the contractor, the contractor's investment, the amount of subcontracting, the quality of its record of past performance, and industry profit rates in the surrounding geographical area for similar work.

Time and Materials Contracts

The District uses a time and materials type contract only (1) after a determination that no other contract is suitable; and (2) if the contract includes a ceiling price that the contractor exceeds at its own risk. Time and materials type contract means a contract whose cost to the District is the sum of the actual costs of materials, and direct labor hours charged at fixed hourly rates that reflect wages, general and administrative expenses, and profit.

Since this formula generates an open-ended contract price, a time-and-materials contract provides no positive profit incentive to the contractor for cost control or labor efficiency. Therefore, the District sets a ceiling price for each contract that the contractor exceeds at its own risk. Further, the District shall assert a high degree of oversight in order to obtain reasonable assurance that the contractor is using efficient methods and effective cost controls.

Suspension and Debarment

The District will award contracts only to responsible contractors possessing the ability to perform successfully under the terms and conditions of the proposed procurement. All purchasing decisions shall be made in the best interests of the District and shall seek to obtain the maximum value for each dollar expended. When making a purchasing decision, the District shall consider such factors as (1) contractor integrity; (2) compliance with public policy; (3) record of past performance; and (4) financial and technical resources.

The Superintendent shall have the authority to suspend or debar a person/corporation, for cause, from consideration or award of further contracts. The District is subject to and shall abide by the nonprocurement debarment and suspension regulations implementing Executive Orders 12549 and 12689, 2 CFR Part 180.

Suspension is an action taken by the District that immediately prohibits a person from participating in covered transactions and transactions covered under the Federal Acquisition Regulation (48 CFR chapter 1) for a temporary period, pending completion of an agency investigation and any judicial or administrative proceedings that may ensue. A person so excluded is suspended. (2 CFR Part 180 Subpart G)

Debarment is an action taken by the Superintendent to exclude a person from participating in covered transactions and transactions covered under the Federal Acquisition Regulation (48 CFR chapter 1). A person so excluded is debarred. (2 CFR Part 180 Subpart H)

The District shall not subcontract with or award subgrants to any person or company who is debarred or suspended. For contracts over \$25,000, the District shall confirm that the vendor is not debarred or suspended by either checking the Federal government's System for Award Management, which maintains a list of such debarred or suspended vendors at www.sam.gov; collecting a certification from the vendor; or adding a clause or condition to the covered transaction with that vendor. (2 CFR Part 180 Subpart C)

Bid Protest

The District maintains the following protest procedures to handle and resolve disputes relating to procurements and, in all instances, discloses information regarding the protest to the awarding agency.

A bidder who wishes to file a bid protest shall file such notice and follow procedures prescribed by the Request For Proposals (RFPs) or the individual bid specifications package, for resolution. Bid protests shall be filed in writing with the Superintendent within seventy-two (72) hours of the opening of the bids in protest.

Within five (5) days of receipt of a protest, the Superintendent shall review the protest as submitted and render a decision regarding the merits of the protest and any impact on the acceptance and rejection of bids submitted. Notice of the filing of a bid protest shall be communicated to the Board and shall be so noted in any subsequent recommendation for the acceptance of bids and awarding of contracts.

Failure to file a notice of intent to protest, or failure to file a formal written protest within the time prescribed, shall constitute a waiver of proceedings.

Maintenance of Procurement Records

The District maintains records sufficient to detail the history of all procurements. These records will include, but are not necessarily limited to the following: rationale for the method of procurement, selection of contract type, contractor selection or rejection, and the basis for the contract price (including a cost or price analysis).

Applicable laws and regulations:
2 C.F.R. 200.317 - .326

policy

**BOARD OF EDUCATION
LANSING SCHOOL DISTRICT**

FINANCES
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PREVAILING WAGE COORDINATOR

It is the purpose of this policy to comply with State and Federal regulations concerning prevailing wage rate.

The Michigan Department of Consumer and Industry Services; Wage and Hour Division will determine the prevailing wage rate in the locality where the work is to be performed.

The Superintendent shall designate a Prevailing Wage Coordinator for this District.

The Prevailing Wage Coordinator will submit to the Superintendent, for Board of Education approval, procedures for monitoring compliance with prevailing wage laws. S/He will request the Michigan Department of Consumer and Industry Services; Wage and Hour Division to establish the prevailing wage rate in this District for school construction or renovation projects. A schedule of those wages must be attached to the specifications for the work, and printed on any bidding blanks. A copy of the bidding blank must be filed with the Michigan Department of Consumer and Industry Services; Wage and Hour Division prior to the award of any contract. Thereafter, any contract which is awarded must include a provision that each laborer, workman, or mechanic employed by the contractor will be paid at a rate not less than the prevailing wage rate. On the first pay date, the contractors and subcontractors must provide each employee with written notification of his/her job classification and the prevailing wage rate for his/her job classification, unless the employee is covered by a collective bargaining agreement.

M.C.L. 408.551 et seq.

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policy

**BOARD OF EDUCATION
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COOPERATIVE PURCHASING

The Board of Education recognizes the advantages of centralized purchasing in that volume buying tends to maximize value for each dollar spent. The Board, therefore, encourages the administration to seek advantages in savings that may accrue to this District through joint agreements for the purchase of supplies, equipment, or services with the governing body(ies) of other governmental units.

The Board authorizes the Business Manager to negotiate such joint purchase agreements for services, supplies, and equipment which may be determined to be required from time to time by the Board and which the Board may otherwise lawfully purchase for itself, with governmental contracting units as may be appropriate in accordance with State law, the policies of this Board, and the dictates of sound purchasing procedures.

Cooperative or joint purchases require an agreement approved by the Board and the participating contracting body(ies) which shall specify the categories of equipment and supplies to be purchased; the manner of advertising for bids and of awarding contracts; the method of payment by each participating party and such other matters as may be deemed necessary to carry out the purposes of the agreement. Such agreements are subject to all legal bidding requirements.

M.C.L. 124.1 et seq.

policy

**BOARD OF EDUCATION
LANSING SCHOOL DISTRICT**

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LOCAL PURCHASING

The Board of Education recognizes its position as a major purchaser in this community, and while it is the intention of the Board to purchase materials and supplies of quality at the lowest possible cost through widespread competition, if all other considerations are equal, the Board prefers to purchase within the District from established local merchants.

The Board authorizes the Superintendent to award purchases placed in accordance with law, this policy, and all policies of the Board otherwise applicable to local merchants when

- A. their quotation is competitive, within a percentage determined by the Board,
- B. freight charges are a factor,
- C. maintenance service may be required,
- D. promptness of delivery is a consideration,

provided that all statutes pertaining to public purchasing are duly observed.

policy

**BOARD OF EDUCATION
LANSING SCHOOL DISTRICT**

FINANCES
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VENDOR RELATIONS

The Board of Education shall not enter a contract knowingly with any supplier of goods or services to this District under which any Board member or officer, employee, or agent of this School District has any pecuniary or beneficial interest, direct or indirect, unless the person has not solicited the contract or participated in the negotiations leading up to the contract. This prohibition shall not prevent any person from receiving royalties upon the sale of any textbook of which s/he is the author and which has been properly approved for use in the schools of this District.

For the purpose of this policy "beneficial interest" shall be determined in accordance with M.C.L. 15.321 et seq.

Board members and school personnel shall not accept any gifts or favors from vendors which might, in any way, influence their recommendations on the eventual purchase of equipment, supplies, or services.

All sales persons, regardless of product, shall clear with the Superintendent's Office before contacting any teachers, students, or other personnel of the School District. Purchasing personnel shall not show any favoritism to any vendor. Each order shall be placed in accordance with policies of the Board on the basis of quality, price, and delivery with past service a factor if all other considerations are equal.

M.C.L. 15.321 et seq.



In order to maintain the public trust, your local school district Board of Education should consider and adopt a resolution containing at least some, if not all, of the factors listed below.

Each factor should be discussed thoroughly by school board members, the architects and construction managers involved in any school construction because of the potential impact they will have on a project.

Your construction manager and design professional will then include these factors in the construction bid documents so all bidders know that in addition to price these items will be considered when construction bids are reviewed.



EXPERIENCE. Institutional building projects are expected to last 50-75 years. Therefore school board members should review the past experience of all construction professionals to ensure that they have pertinent experience on similar institutional projects. In so doing, the board members can evaluate whether local contractors should be considered for the project and only if they have the required experience should they be considered.



REFERENCES. School board members should investigate the references of their construction professionals from past clients doing similar institutional work. Construction professionals must supply pertinent references from their past clients, including information regarding performance and jobsite cooperation.





FINANCIAL CONDITION. A good financial rating means stability on the job and all through the project. Construction professionals must show they are financially prepared to perform the work they are bidding on. School boards must obtain information concerning a bidder's financial capability, any outstanding claims against them and bank references. A poor financial condition can affect the quality of materials, equipment and workers used on the project. It also can result in substantial project delays and unsafe schools.



SAFETY & ACCIDENTS. Construction professionals with a good safety and EMR record will be more productive. An employer has an obligation according to the Michigan Occupational Safety and Health Act (MIOSHA) to provide a place of employment free from recognized hazards likely to cause death or serious physical harm. Every employee has the right to a safe and healthy workplace. An employer must provide training in the recognition and avoidance of hazards and specific training called for in the MIOSHA standards.



RESUME OF SUPERVISORY PERSONNEL. Beyond a construction professional's experience with similar institutional projects, it is important for board members to evaluate the resumes of the supervisory personnel of all construction professionals on their project. All supervisory personnel should have pertinent experience and adequate education and training to complete your project.



INSURANCE & SURETY BONDING. Construction professionals must show proof of adequate and relevant insurance coverage for a particular project and must prove their compliance with workers' compensation statutes. School boards must set minimum standards for insurance coverage. Construction professionals that cannot provide proper coverage may be unable to fulfill project obligations. A measure of a construction professional's stability is shown in the ability to secure the required bonding.



USE OF A TRAINED LOCAL WORKFORCE. Employing local construction professionals and skilled craft workers on a project can be an attractive goal for school boards. Local craft workers, their friends and family, in all probability use those schools. However, it is necessary to determine if the construction professional has ready access to a qualified, experienced workforce to build your project.



PREVAILING WAGE. Use of prevailing wage requirements ensures that school boards secure the best qualified construction professionals to perform work on their projects. Construction professionals should compete for projects on the basis of their management practices, not by paying sub-standard wages. Utilization of prevailing wage will allow the construction professional to pay locally determined wages and benefits to attract qualified skilled craft workers.



EMPLOYEE HEALTH INSURANCE & PENSION BENEFITS. School districts can maintain and promote their community's health care and craft employees by requiring the construction professional to use prevailing wage, which includes health insurance and pension benefits. Construction professionals who provide such benefits to their craft personnel demonstrate a commitment to developing a stable workforce, which is a key component to a quality project and to the health of the community.



WORKFORCE SOURCE & PROPER EMPLOYEE CLASSIFICATION. School boards can ensure that their project will be built by qualified construction professionals by ensuring contractor access to a skilled workforce. School districts should examine carefully the source of building trades craft employees. School districts should ask prospective construction professionals to identify the source of the workforce they intend to use on the project. Construction professionals who staff the project with personnel hired from help-wanted ads or employment agencies might not have sufficient competence and ability to complete a quality project on schedule.



REGISTERED UNITED STATES DEPARTMENT OF LABOR, BUREAU OF

APPRENTICESHIP & TRAINING PROGRAMS. School boards know the value of high quality training and education. Responsible contractors know that better training equals better buildings. Bureau of Apprenticeship and Training (BAT) approved training programs create more productive craft workers. A construction professional's ability to staff a school construction project with qualified trades' workers is the key to success. Contractors, who bid on school construction projects should maintain, participate in and contribute to bona fide apprentice training programs recognized by the U.S. D.O.L./B.A.T. Trained craft workers promote cost effectiveness, timeliness, safety and quality on school construction work. Companies who employ skilled and trained workers, educated in their trade, deliver exceptional work. Moreover, every registered U.S. D.O.L./B.A.T., program must meet twenty-two standards of apprenticeship regulated and audited by the U.S. D.O.L./B.A.T., as outlined in 29 CFR 29.5.



LICENSING. School boards get a better building when highly competent construction professionals and tradespersons build it to code. State law establishes licensing requirements for

electrical, mechanical, plumbing, boiler and elevator contractors, and electrical,

elevator and plumbing craft workers. Proper licensing and certification,

when applicable, show school boards that construction

professionals bidding the job have been tested and are

competent to perform the work. All responsible construction

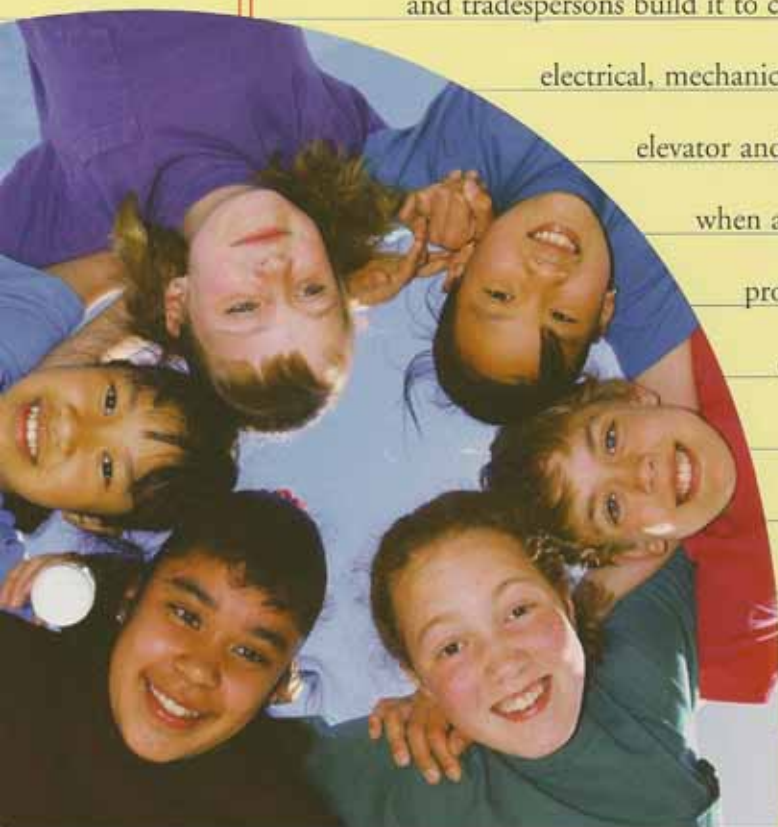
professionals must provide documented proof of licensing

and certification. This will allow school boards to contact

licensing and certification agencies to verify the bidder's

history and determine if any complaints or judgments

have been filed against them.





COMPLIANCE WITH REGULATORY AGENCIES. School boards get a higher quality building when local, state and federal regulations are followed. Compliance with the EPA, MIOSHA, OSHA and other agencies helps school boards evaluate the construction professional's willingness to follow rules. It also ensures that the bidding contractors are aware of the policies that affect them. Contractor adherence to wage and hour standards, record keeping guidelines, child labor regulations and other components of the Fair Labor Standards Act are good indicators of a stable workforce. Construction craft workers who are treated fairly and receive proper pay and benefits are more likely to produce high quality work which helps ensure a safe learning environment for Michigan children.



CIVIL SUITS/ARBITRATION/HISTORY. A school board will have their building projects completed without costly legal entanglements if they select a responsible contractor with a 'clean' legal history. School boards should contract with construction professionals that build according to contract – not in spite of the contract. School districts should carefully examine a contractor's litigation history and the final disposition of any arbitration claims brought against him/her. A contractor with an unusually high level of adverse claims might indicate that the school board should disqualify the contractor.



Michigan Association for Responsible Contracting

phone: 1-866-YES-MARC • fax: 517-372-0402 • www.miarc.org

26 0500 - GENERAL ELECTRICAL REQUIREMENTS

PART ONE - GENERAL

RELATED DOCUMENTS

The work under this specification is subject to all of the Contract Documents that apply to the entire work. The Electrical Contractor shall be the General Contractor for this project and shall be responsible for the sub-contracting and coordination of the work of all Trades.

SUMMARY

Extent of work by this Section of Specifications is applicable to all subsequent Sections of this Division. Provide all labor, material, equipment and services and perform all operations required for the complete electrical installation and all related Work as required by the Contract Documents. The Summary Discussion section below is provided as an overview of the project's objectives for the benefit of the Proposer's understanding of the desired functional aspects of the project but is not intended to include any specific requirements for the Contractor.

SUMMARY DISCUSSION

The Lansing School District has proposed to install in four locations, Battery Energy Storage Systems and Electric Vehicle Charging Stations for the following schools:

- a. North School – 333 East Miller Road, Lansing, Michigan 48911
- b. Pattengill Elementary School – 815 North Fairview Avenue, Lansing, Michigan 48912
- c. Wexford Montessori Academy – 5217 Wexford Road, Lansing, Michigan 48911
- d. Cavanugh Elementary School – 300 West Cavanaugh Road, Lansing, Michigan 48910

As part of that development, this theory of operation has been formulated to ensure that intent will be met with this design.

- The primary purpose of this project is to install the *Battery Energy Storage System* (BESS) so that it will charge during the Utility's off-peak weekday hours (2000 → 1200) and discharge as needed, based on the building's load, during the on-peak hours (1200 → 2000).
- It is also the intent to have one *Electric Vehicle Charger* (EV) at each location for an electrical bus charging station. This is also to benefit from the BESS.

QUALITY ASSURANCE

Codes: Install all materials and equipment in strict accordance with the latest edition of the National Electrical Code, the National Safety Code, the National Fire Protection Association, and all governing national and local codes and authorities. When Contract Documents indicate higher quality materials or method than the minimum required by the regulatory agencies, comply with the required Contract Documents. Additionally, the installation shall be in accordance with the governing rules and regulations of the City of Lansing and all local governing boards having jurisdiction and shall meet all the standards and requirements of the Owner.

Materials: Provide all materials in the Electrical Work herein specified unless others specified and suited to the use intended; listed by the Underwriters' Laboratories, Inc., meeting their requirements, and bearing their label whenever standards have been established and label service is regularly furnished by that agency. Provide all materials of the types of makes hereinafter specified, except that pre-bid substitutions will be considered in accordance with Sections "Instructions to Bidders", "Supplementary General Conditions", and "Substitutions".

In all cases where the capacity or rating of the equipment being provided, e.g., cables and switches, is based on the rating of equipment, confirm such capacities or ratings with the suppliers before purchase of the equipment.

SUBMITTALS

All submittals shall be in accordance with the general provisions of these specifications. Shop Drawings, Product Data, Wiring Diagrams, Riser Diagrams, Manuals, Instructions, and Spare Parts List: Refer to appropriate Sections for specific submittals. All submittals shall be in accordance with the general provisions of these specifications.

PROJECT RECORD DOCUMENTS

Using the installation drawings, keep an accurate record during construction of all underground and concealed conduit and all deviations and/or construction changes in the Electrical Work. Refer to the general provisions of these specifications for requirements regarding form and submittal of Project Record Documents. In addition, the record documents shall include but not be limited to the following:

- The location of all equipment, switches, etc., as installed.
- Conduit runs shown in their relative locations with size and number of wires within.
- Miscellaneous wiring diagrams for all special systems and equipment.

CERTIFICATION

Where indicated, provide required certification statements or labels in triplicate, from the manufacturers and/or installers, prior to product delivery to the Project site, attesting that the materials and equipment meet the Specification requirements. Certified equipment shall have been regularly manufactured by the manufacturer for a minimum period of two (2) years prior to the date of issuance of the Bidding Documents for the Project.

RECEIPTS AND MISCELLANEOUS ITEMS

Refer to general provisions of these specifications, regarding receipts for portable and detachable parts, and operation and maintenance information. Retain until the completion of the Work, all portable and detachable portions of the installation such as tool kits, instruction books, wiring diagram, service manuals, switch operating handles, keys, etc. Transfer all items to the Purchaser when the work has been approved and accepted and obtain an itemized receipt. Identify wiring diagrams, instruction books, and service manuals clearly as to which piece of equipment they apply and the equipment location.

Return to the Owner, in good condition, all tools and tool kits supplied by manufacturers for installation or adjustment of their equipment. Replace any missing parts; clearly identify special tools supplied for pieces of equipment with that equipment. Attach copies of all receipts obtained for the return or delivery of articles to the request for final adjustment and payments.

SCOPE OF WORK

The following brief description under this heading generally outlines the principal items of work, material and equipment and is not intended to limit the amount of Work. Items include:

- Furnish and install the current transformers, fuses and fuse blocks, shorting blocks, terminal blocks, in each of the existing switchgear's to be connected to the BESS's control center.
- Furnish and install a new, freestanding, 600A, 480/277V, breaker panel to the existing Main Switchboard using the National Electrical Code, NFPA 70-2023, 240.21(B)(1), 10 foot tap rule. This panel will be connected to the BESS and Bus Charging Stations as shown in each new bus charging area.
- Provide the concrete foundations and concrete bollards for this equipment as indicated.
- Complete the installation of all underground conduit, conduit fittings, supports, fuses, wire, cables, control cables, connectors, insulating bushings, solder, tape, etc. as shown and as required for a complete electrical installation.

- Work, equipment and materials as shown on the Drawings, mentioned in the Specifications, and as required to make a complete satisfactory job, complete with all code requirements.

ELECTRICAL CHARACTERISTICS

Low Voltage Service: 480Y/277V, 60 hertz, three-phase, solidly grounded, as indicated.
 Low Voltage Service: 240/120V, 60 hertz, single-phase, solidly grounded, as indicated.
 Low Voltage Service: 208/120V, 60 hertz, three-phase, solidly grounded, as indicated.

EQUIPMENT APPROVAL

All equipment to be furnished shall fit in the space allocated, with sufficient access space to allow proper operation, service of the equipment and to meet all code requirements. Include all costs of modification and adaptation required by any equipment proposed for a substitution. Refer to the Bidding Requirements regarding pre-bid substitutions, and to the Conditions of the Contract regarding post-award substitutions.

PROTECTION AND HANDLING OF EQUIPMENT AND MATERIALS

Protect all materials and equipment provided under this portion of the Work after delivery, and before and after installation. Protect against pilferage, dampness and damage from all causes until the work is accepted by the Owner. Protect conduit openings with temporary plugs, caps or burlap.

EXAMINATION OF PREMISES

Examine the premises before submitting a quotation in order to determine the conditions under which the Work is to be performed. Ascertain and check all conditions which may affect the Work, such as location and depth of existing services, existing ditches, poles, ground elevations, conditions in existing building where work is to be performed, including utilities, structural and physical clearances, and the like. No allowance will subsequently be made for extra expense due to failure or neglect to make such examination.

Check existing equipment which must be connected to verify voltage and other items which may affect the Work; check type of existing control system so that new system components will be compatible with existing system, and verify that space provided for new equipment is adequate for equipment to be provided under the Contract.

COOPERATION WITH OTHER TRADES

Prior to proceeding with installation of the Work, check with other trades and the Project Drawings to avoid interference. In case of interference, consult with the Resident Engineer who will decide which trades may occupy each space.

PERMITS

Take out all required in connection with the Work of Division 26, arrange for all necessary inspections by local or state laws, and pay all fees and expenses in connection therewith.

PART TWO - PRODUCTS

<specified elsewhere>

PART THREE - EXECUTION

GENERAL

Consult Drawings, field layouts of other trades as appropriate, and all related shop drawings and install the electrical system complete so that its component parts function together as a workable system with all accessories necessary for its operation.

EQUIPMENT CONNECTIONS

Make connections to equipment, etc., in accordance with the shop drawings and rough-in measurements furnished by the manufacturers of particular equipment provided.

CUTTING AND PATCHING

Engage workmen skilled in the trade involved for all cutting and patching in connection with the Electrical Work. Patch and restore areas to the satisfaction of the Engineer, consistent with the conditions of the surfaces prior to the cutting and patching.

DAMAGE TO ADJACENT WORK

Repair all damage to adjacent surfaces caused by Work or workmen of Division 26, using and paying for workmen skilled in each trade involved.

CLEANING

Thoroughly brush galvanized surfaces and wipe with clean rags and solvent to remove all dirt, oil and grease. Clean and polish factory finished equipment. Refinish any surfaces which have been damaged. Upon completion, thoroughly clean the entire installation and remove all rubbish. Comply with cleaning requirements of general provisions of these specifications.

WORKMANSHIP

Where exact locations and arrangements of installation are not shown in full detail on the Drawings, obtain such information from the Engineer. Replace or repair, at no additional cost to the Purchaser, any Work installed in error, or any equipment damaged, due to failure to comply with this requirement, or any Work installed contrary to the advice or approval given. Repair or replace damaged equipment in such a manner to match existing Work. Immediately notify Engineer in writing all interferences occurring during the construction period that were unforeseeable in correlation and coordination meetings.

CONCRETE WORK FOR ELECTRICAL WORK

Provide concrete work including concrete, forming, pouring and reinforcing for underground duct banks, equipment foundations at grade. Provide foundation bolts, sleeves, washers, nuts, and templates to locate position of bolts. Make sleeves of steel pipe, finish flush with top of rough concrete for anchorage and make embedded ends of bolts hooked.

KEYS

Surrender to the Purchaser all keys together with any duplicates which may have been made. Securely wire together keys for each lock and plainly tag and mark to show which lock number or piece of equipment they operate. Indicate the physical location of the lock on the tag by stating the building name or number, switch number, etc.

INSPECTION

Refer again to the Conditions of the Contract regarding Engineer's Project site visits, observations and inspections of the Work and Project Representative. Materials used and work done shall, at all stages, be subject to observation by the Engineer, who shall observe quality, fitness and acceptability of the work and materials, but such observation shall not relieve the contractor of any obligations to furnish materials and equipment and perform work in accordance with the Contract Documents. Replace or repair defective material, equipment, or work regardless of previous inspections, before final acceptance.

PAINTING

Refinish in a satisfactory manner all factory assembled equipment such as switchgear and other similar items which are chipped or defaced due to handling, installation or construction work.

STRUCTURAL INTERFERENCES

Should any structural interferences or location and arrangement of equipment prevent the installation of switches, running conduit, etc., at points shown on Drawings, the necessary deviations therefrom, as determined, must be made without additional cost.

SUPPORTS

Select, furnish and install all supports, braces, inserts and framing where required for the proper installation of conduit, raceways, as well as all other equipment installed and connected in accordance with the Specifications and Drawings. Provide structural supports for equipment and systems, in accordance with manufacturer's printed instructions, as modified by contract requirements.

FUSES

Install fuses of correct sizes in all fusible equipment as supplied by the Manufacturer.

INTERRUPTION OF SERVICE AND ADDITIONAL REQUIREMENTS

Perform any interruption of service at a time approved in advance by the Engineer so as not to interfere with the present site's operations.

FINAL INSPECTION

Final electrical inspection is required by the local inspection authority. Secure all final inspection permits on completion of Work. Attach such permits to request for final payment.

FINAL CLEANING AND ADJUSTMENTS

Perform final cleaning of electrical and similar work and leave the equipment in proper adjustment and operating condition.

END OF SECTION

26 0519 - WIRES AND CABLES (600 VOLTS AND LESS)

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions Specification sections, apply to work specified in this section.

SUMMARY

Extent of wires and cables work is indicated by drawings and by requirements of this Specification. Provide wire and cable systems as required, and all materials and equipment, including wire, cable, connectors and lugs, fittings, and wire and cable identification, as indicated or specified.

QUALITY ASSURANCE

UL Compliance

Provide wire, cable and connector products which are UL-listed and labeled.

Source Quality Control

Furnish wire and cable on which standard factory tests established by ASTM, ANSI, IPCEA and NEMA have been performed.

SUBMITTALS

Shop Drawings and Product Data

Submit product data for each type and size of wire and cable. Identify material, construction data, insulation thickness, and jacket thickness. Submit color coding schemes for branch circuit wiring.

Cable Identification

Submit identification system for cable groups, source and feeder names for approval by Engineer.

DELIVERY, STORAGE AND HANDLING

Deliver all wire and cable to the site on reels or in coils, plainly marked for complete identification, including wire or cable size, the number of conductors, type of wire or cable, length, weight, thickness and character of the insulation and the name of the manufacturer. Furnish 600-volt wires and cables on coils and reels carrying original date perforated inspection labels of the Underwriters' Laboratories showing the number of feet and type of wire contained.

Store wire and cable in clean dry space. Protect products from weather, damaging fumes, construction debris and traffic.

Handle wire and cable carefully to avoid abrading, puncturing, and tearing wire and cable insulation and sheathing. Ensure that dielectric resistance integrity of wires/cables is maintained.

PART TWO - PRODUCTS

MANUFACTURERS

Wire and Cable

General Cable Corporation
Okonite
Southwire

WIRE AND CABLE

General

Furnish wire and cable per standard specifications established for such material and construction by ASTM, ANSI, IPCEA and NEMA, where applicable. Furnish copper conductors of 98% conductivity unless otherwise specified, not less than No. 12 AWG, except control conductors which may be No. 14 AWG. Furnish conductor sizes as indicated. Furnish stranded conductors for all sizes unless otherwise noted.

Wire for General Interior and Exterior Use

Single conductor, annealed copper, NEC Type XHHW rated 90°C in dry locations and 75°C in wet locations, 600 volts, or NEC Type RHW rated 75°C, 600 volts.

Control Cable

Multiple twisted as indicated. Crosslinked, polyolefin (XLPO) insulation, with Hypalon (CSPE) jacket. Cable shall be compatible for use in dry and wet locations, cable tray and raceways. ASTM B33, ASTM B8 Class C stranding, annealed copper conductors, NEC type XHHW, rated 600V.

CONNECTORS FOR SPLICING COPPER CONDUCTORS

Connectors for Straight Splicing Conductors No. 8 AWG and Larger

Solderless compression 2-way type.

Thomas & Betts 54500 Series
Burndy Type YS-L

Connectors for 3-Way Splicing Conductors No. 8 AWG and Larger

Solderless compression type.

Thomas & Betts 54700 Series
Burndy YS-T

LUGS FOR TERMINATING COPPER CONDUCTORS

Lugs for Terminating Power Conductors up to and Including No. 8 AWG

Solderless type, manufacturer's standard, unless otherwise specified.

WIRE LABELS

Wire labels for identification of conductors, flame resisting, adhesive type.

Brady
Westline

INSULATING TAPE

General Use Tape:

Scotch 33 Plus
Okonite Type CLF Series 602-20

PART THREE - EXECUTION

INSTALLATION

General

Install wiring in accordance with Article No. 210 of the National Electrical Code or per any other codes that take precedence. Install wiring in raceway systems, as indicated and as specified, except where exposed

wiring is indicated or specified. Install wiring only in completed raceway systems and when systems are protected from the weather. Install conductors continuous, without splices, between equipments, where possible. Where splices are required, make up splices in boxes; do not use fittings for same.

Install phase and neutral conductors of each branch or feeder circuit in a single conduit except where paralleling circuits are indicated. Install paralleling circuits of identical make-up and length as the paralleled circuit, and terminate conductors at the same location, mechanically and electrically, at both ends, to ensure equal division of the total current between conductors. Run a ground conductor in all non-metallic conduits and as noted on the Drawings.

Continuously lubricate cables at the pull-in point of conduit system with an approved compound compatible with conductor insulation of jacket.

Install conductors in such a manner that the bending radius of any wire or cable is not less than the minimum recommended by ICEA and/or the manufacturer. Do not exceed manufacturer's recommended values for maximum pulling tension applied to any wire or cable.

Support vertical riser cables over No. 4 AWG at top and at any intermediate terminations of conduit with cable supports.

Connect all power wiring to equipment, such that phasing shall be A-B-C-N left to right, top to bottom and front to back, where possible, and permanently identify phasing on the structure or housing adjacent to bus. Phase identification A-B-C is equivalent to transformer phase identification X1-X2-X3 and H1-H2-H3.

For accessories that require special tools for installation, use such special tools recommended by the respective manufacturer, and in accordance with the established practice and the recommendation of the manufacturer.

Color Coding and Conductor Identification

Match existing color scheme where such exist. Otherwise tag and color code wire and cable for feeders, sub-feeders, control and branch circuit wiring as follows:

	<u>480/277 Volt Systems</u>
Phase A	Yellow
Phase B	Brown
Phase C	Orange
Neutral	Gray
Ground	Green

Provide and secure tags identifying cables with circuit name, number and phase to all cables in all terminal cabinets, panelboards, distribution, control and load centers, pull boxes and wherever conduit run is broken. Mark the white marking strip of all control terminal blocks with the same identification as the connecting wire in permanent black ink. Designate source and load, or feeder or cable identification on tags. Submit identification for the approval of the Engineer.

END OF SECTION

26 0526 - GROUNDING

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to work specified in this section.

SUMMARY

Extent of grounding work is indicated by Drawings and by requirements of this Section. Provide grounding systems as required, and all materials and equipment, including ground rods, accessories and associated equipment, as indicated or specified.

Types of grounding conductors specified

For General Use Above and Below grade: Bare.

In Conduit with Phase Conductors: Insulated.

Types of grounding connections specified

In Earth or Inaccessible Locations: Exothermic welded type.

To Structural Steel: Exothermic welded type.

To Non-Permanently Fixed Equipment: Lugs bolted to the equipment.

QUALITY ASSURANCE

NEC Compliance

Comply with NEC requirements as applicable to materials and installation of electrical grounding systems, associated equipment and wiring.

UL Compliance

Comply with applicable requirements of UL Standards No. 467 and 869 pertaining to electrical grounding and bonding. Provide grounding products which are UL listed and labeled.

SUBMITTALS

Shop Drawings

Submit shop drawings for approval and include complete data on each item. Coordinate the items, as they relate to the work, prior to submittal. Shop drawings shall include:

Grounding connections and fittings

PART TWO - PRODUCTS

GROUNDING CONDUCTORS

Bare Grounding Conductors: Stranded annealed copper.

Insulated Grounding Conductors

Single conductor, annealed copper, NEC Type XHHW rated 90°C in dry locations and 75°C in wet locations, color-coded green. Refer to Section 26 0519 for manufacturers.

GROUNDING CONNECTIONS

Exothermic Welding Connection Materials

Cadweld

Copper Compression Grounding

Thomas & Betts

Burndy

Grounding Fittings for Bonding a Ground Conductor to its Own Conduit

Burndy Type GG

Penn Union Type GPL

Other Grounding Connectors and Lugs

Compression type as specified in Section 26 0526.

PART THREE - EXECUTION

INSTALLATION

Ground equipment enclosures and electrical system neutral by means of "counter-poise grounding assemblies" or as indicated on Drawings. Protect ground cables subject to mechanical damage by rigid steel conduit and bond conductor to the conduit at each end. Locate top of ground rod two feet below the finished grade elevation when installed outdoors.

Locate grounding conductors for building equipment via the shortest and most direct path practicable to the ground clamp. Make grounding connections as close to current carrying parts as practicable. Provide equipment grounding conductor in all non-metallic conduit. Provide grounding conductor in all metallic conduit if so noted.

Thoroughly clean all bonding surfaces of non-conducting materials. Tin and sweat contact surfaces while bolting. Do not use solder type connections.

END OF SECTION

26 0539 - RACEWAYS AND FITTINGS

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions Specification sections, apply to work specified in this section.

SUMMARY

Extent of basic materials and methods work is indicated by Drawings and by requirements of this section. Provide raceway systems as required, and all equipment and material, including conduit, fittings, boxes, wireways, and cable trays, as indicated or specified.

QUALITY ASSURANCE

NEC Compliance

Comply with NEC requirements applicable to construction and installation of raceway systems.

UL Compliance

Comply with provisions of UL Safety Standards pertaining to electrical raceway systems; and provide raceway material which have been UL listed and labeled.

SUBMITTALS

Submit shop drawings for approval and include complete data on each item. Coordinate the items, as they relate to the work, prior to submittal. Shop drawings shall include:

- Conduit and fittings.
- Wireways.

PART TWO - PRODUCTS

CONDUIT

Rigid Steel Conduit, Elbows, and Couplings

Zinc-coated threaded steel per ANSI C80.1-1977 "Specification for Rigid Steel Conduit, Zinc-Coated". Each length of conduit shall be threaded on both ends.

- Allied Tube & Conduit
- Republic Conduit
- Wheatland Tube Company

Intermediate Metal Conduit, Elbows and Couplings

Hot-dipped galvanized per UL 1242. Each length of conduit shall be threaded on both ends.

- Allied
- Triangle

CONDUIT FITTINGS

Fittings for Rigid Steel or Intermediate Metal Conduit

Cast or malleable iron bodies, cadmium or zinc-plated, with taper threads, screw attached cover plates and gaskets when located in areas requiring gaskets.

- Appleton Form 35
- Crouse-Hinds Form 8

Expansion Fittings for Rigid Steel or Intermediate Metal Conduit

Cast or malleable iron bodies, with threaded end caps for receiving fixed and movable conduits, metallic pressure packing and copper bonding jumper assembly, and providing for a minimum of 2 inches movement of the conduit in either direction.

Appleton Type XJ
Crouse-Hinds Type XJ
O-Z Type AX

Locknuts for Rigid Steel or Intermediate Metal Conduit

Malleable iron or steel, zinc or cadmium plated.

Bushings for 1 Inch and Smaller Rigid Steel Conduits, Intermediate Metal Conduits

Insulating plastic type of nonburnable thermosetting phenolic, conforming to Underwriters' Laboratories requirements. Do not furnish nonrigid plastic bushings.

Bushings for 1-1/4 Inch and Larger Rigid Steel or Intermediate Metal Conduits

Malleable iron or steel, zinc or cadmium plated, with insulating insert of thermosetting plastic as specified for smaller conduit bushings, molded and locked into the bushing ring.

MISCELLANEOUS

Trapeze Hangers

Hot-dipped, galvanized cast malleable iron straps or structural steel with hot-dipped galvanized nuts and bolts.

Unistrut
Kindorf
Powerstrut

Thread Lubricant:

Crouse-Hinds STL

PART THREE - EXECUTION

INSTALLATION

Conduit - General

Install Schedule 80 PVC, rigid steel or intermediate metallic conduit as specified or indicated. Install conduit sizes as indicated.

Use special care to insure that such joints are tight mechanically and that the lubricant application completely seals them against the entrance of moisture. Coat all field cut threads with thread lubricant.

For on-site cutting and threading, cut conduit square with a hack saw. Cut threads clean and true using proper size dies for conduit type being threaded. Thoroughly clean and ream all inside edges of the conduit to remove all burrs or sharp edges.

Where inside protective coating has been destroyed by the above operations, apply a suitable protective coating.

Install conduit in mechanical rooms and similar spaces exposed, unless otherwise specified or indicated.

Deliver conduit to the project site in not less than 10-foot lengths with each length of conduit having approved stamp of Underwriters Laboratory and manufacturer's name and trademark.

Mechanically join together metal conduit, fittings, enclosures and raceways for conductors to form a continuous electrical conductor, and to provide effective electrical continuity and firm mechanical assembly.

Do not install conduit across pipe shafts or vent duct openings.

Install conduit a minimum of 12 inches from hot water or steam pipes and 3 inches from other mechanical piping. Support riser conduit at each floor level by approved clamp hangers.

Secure conduit in place by two locknuts and terminate with a bushing when conduit entering sheet metal enclosure and outlet boxes and not terminated in a threaded hub.

Do not support conduit from pipes, hangers, or extension of installation of other trades. Clean conduit thoroughly and dry inner surfaces before conductors are installed. Remove and replace conduit found to be plugged or so exceptionally dirty that they cannot be satisfactorily cleaned. Install an approved type of conduit cap or plug on conduit installed for future use or use by other trades. Cap or plug and properly identify with metal tags empty conduit installed for future use.

Use flexible conduit for service to individual recessed fixtures, 1/2 inch minimum size, and for final connection to distribution transformers, motors and other equipment subject to vibration or movement. Use liquid tight type of flexible conduit in lieu of non-jacketed flexible conduit in damp or wet locations. Install the flexible metallic conduit so that liquids will tend to run off the surface instead of draining toward the fitting. Do not install flexible metallic conduit in lengths greater than three feet, except do not install lengths greater than four feet for lighting fixtures.

Exposed Conduit

Install exposed conduit and extensions from concealed conduit systems neatly parallel with or at right angles to the walls of the building.

Support groups of conduit on trapeze type hangers. Install clevis type hangers for individual conduit not supported on pipe straps. Use rod or pipe with threaded connections for hanger supports.

Install exposed conduit work so as not to interfere with ceiling inserts, ceiling lights or ventilation outlets.

Support exposed conduit and outlet boxes by approved hangers, clamps or clips fastened by machine screws to expansion sleeves, inserts or lead anchors. Supply conduit on both sides of bends.

Expansion Fittings

Install a conduit expansion fitting in each conduit run wherever it crosses an expansion joint in the structure to which it is attached. In addition, install an expansion fitting in each conduit run which is mechanically attached to separate structures. Install a bonding jumper or ground clamp to connect the conduits.

Sleeves

Install sleeves as noted. Where conduits are to pass through floor slabs, and pipe slots are not provided, install pipe sleeves of size as indicated, and securely fasten in the concrete forms to avoid damage or movement of the sleeve at any time.

Install pipe sleeves with bottom of sleeves flush with slab and top 3 inches above finished floor.

Close and make watertight all open spaces around installed conduit with oakum and an approved mastic. Support conduit at each level. Seal unused pipe sleeves.

Bushings

Install insulating bushings on conduit ends before the installation of any conductors.

Pull Rope

Install 1/8 inch pulling rope with wooden blocks fastened to both ends in all empty electrical and telephone conduits.

END OF SECTION

26 2116 - UNDERGROUND ELECTRICAL SERVICE

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to work specified in this section.

SUMMARY

Extent of underground work is indicated by Drawings and by requirements of this Section. Provide all materials and equipment for below grade work as required, and furnish and install all equipment and material, including underground duct banks, and concrete work for electrical work, as indicated or specified.

QUALITY ASSURANCE

ANSI Compliance

Comply with requirements of ANSI C2, "National Electrical Safety Code", pertaining to construction and installation of manholes.

SUBMITTALS

Shop Drawings

Submit shop drawings for approval and include complete data on each item. Coordinate the items, as they relate to the work, prior to submittal. Include the following in Shop Drawings:

Underground duct

PART TWO - PRODUCTS

Plastic Conduit

Rigid PVC conduit, Type Sch.40 in standard lengths with tapered ends and matching solvent-weld type couplings.

Carlson
Olin
Orangeburg Standard
Triangle

MISCELLANEOUS MATERIALS

Duct Spacers

Preformed interlocking plastic.

Carlson
CertainTeed

PVC Solvent Cement

Carlson
CertainTeed

Backfill Materials

Under Pavement, Slabs, and Structures: Granular material, MDOT Section 8.02.06, Table 8.03-3, Class I or better.

Under Open Areas: Satisfactory soil material, ASTM D2487 soil classification groups GW, GP, GM, SM, SW and SP.

PART THREE - EXECUTION

INSTALLATION

Excavation

Perform all excavation by the open cut method necessary to permit installation of conduit and other underground electrical Work. Excavate trenches and pits to minimum dimensions that will permit placing conduit and other Work and in accordance with the requirements of the most stringent governing authority. Where underground utilities or tree roots are encountered, do the trenching by hand. Where necessary, provide shoring and bracing to prevent caving of banks. Provide and maintain required railings, barricades, covers, warning signs and lights, and other safety devices, while excavations are open.

Backfilling

Place backfill in layers not more than 6 inches thick, moistened as necessary to bring moisture content to optimum, and compact each layer with power tampers to obtain 95 percent of maximum compaction density at optimum moisture per ASTM D1557 (Modified Proctor). If tests indicate that this density has not been obtained, remove and replace backfill material at no additional cost to Owner.

Exercise special care in compacting first layer of backfill over electrical duct lines.

Restoring Surfaces

Restore, without extra cost to Owner, street pavements, curbs, and sidewalks that may be opened in performance of the Work, in a manner prescribed by authorities having jurisdiction. Asphalt replacement shall be such that a straight line cut is made between the new surface and existing.

END OF SECTION

26 2200 - DISTRIBUTION TRANSFORMERS

PART ONE - GENERAL

RELATED DOCUMENTS

The work under this specification is subject to all of the Contract Documents that apply to the entire work.

SUMMARY

Extent of transformer work is indicated by Drawings and by requirements of this section.

Provide dry type distribution transformers with all accessories as indicated or specified.

QUALITY ASSURANCE

NEC Compliance

Comply with applicable portions of NEMA Std. Pub/No.'s TR 1 and TR 27 pertaining to distribution transformers.

UL Compliance

Comply with applicable requirements of ANSI/UL 506; "Safety Standard for Specialty Transformers". Provide distribution transformers and components which are UL-listed and labeled.

SUBMITTALS

Product Data

Submit manufacturer's technical product data including rated KVA, frequency, primary and secondary voltages, percent taps, polarity, impedance and certification of transformer efficiency at 0, 25, 50 and 100 percent loads, percentage regulation at 100 and 80 percent power factor, no-load and full-load losses in watts, percent impedance, hot spot and average temperature rise above 40°C ambient temperature, sound level in decibels, and standard published data.

Shop Drawings

Submit manufacturer's certified drawings indicating dimensions, and weight loadings for transformer installations, showing layouts, mountings and supports.

PART TWO - PRODUCTS

DRY-TYPE DISTRIBUTION TRANSFORMERS

General Purpose Dry-Type for Outdoor Use

Provide a NEMA 3R, outdoor-dry two winding, electrostatically shielded, isolation type transformer as shown; of sizes, phase(s), voltages, and connections as indicated. Provide two (2) 2-1/2 percent full capacity taps above and two (2) 2-1/2 percent full capacity taps below normal voltage on primary side.

Insulate with Class B, 80°C rise insulation and rate for continuous operation at rated KVA. Cushion-mount transformers with external vibration isolation supports; sound level rated for quiet application and not to exceed ANSI/ NEMA Standards. Ground core to transformer enclosure by means of visible flexible metal grounding strap.

Anchor, support and space away all windings, terminals and connections from core and structural members to prevent accidental grounding of winding and connections. Impregnate the entire coil assembly with non-hygroscopic thermosetting varnish to seal out moisture.

MANUFACTURERS

ABB/Cutler-Hammer/Eaton

General Electric
Schnieder Electric

Ground core and coils to transformer enclosure by means of visible flexible metal grounding strap. Anchor, support and space away all windings, terminals and connections from core and structural members to prevent accidental grounding of winding and connections. Impregnate the entire coil assembly with non-hygroscopic thermosetting varnish to seal out moisture. Make provisions for conduit connections.

PART THREE - EXECUTION

INSTALLATION

Install transformer as indicated, complying with manufacturer's written instructions, applicable requirements of NEC, NEMA, ANSI and IEEE standards, and in accordance with recognized industry practices to ensure that products fulfill requirements, on the concrete pad adjacent with the switchgear. Use flexible conduit for final connections to all dry-type transformers.

END OF SECTION

26 2416 – 480/277 VOLT SWITCHGEAR

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work specified in this section.

SUMMARY

Extent of the distribution panel/switchgear work is indicated by the requirements of this section. Provide the complete switchgear and associated equipment as indicated or specified.

QUALITY ASSURANCE

Construction, Rating and Tests

Comply with the latest requirements of ANSI, IEEE, and NEMA Standards.

UL Compliance

Provide equipment and components which are UL listed and labeled.

SUBMITTALS

Shop Drawings and Product Data

Submit manufacturer's certified prints showing assembly of units, outline dimension and weights, shipping lengths, location of conduits, wiring diagrams, installation drawings and a complete bill of material for each substation.

Test Reports

Submit copies of manufacturer's certified test data on all factory tests. Submit certified copies of previous tests on essentially identical equipment under actual conditions, not simulated, for transformer temperature tests, momentary test on bus, and momentary and interrupting tests on breakers.

Maintenance Data and Operating Instructions

Furnish manufacturer's general instructions for operation and maintenance of equipment, and parts list with list of recommended spare parts.

PART TWO - PRODUCTS

ACCEPTABLE MANUFACTURERS

Manufacturers

Subject to compliance with requirements, provide products of one of the following:

ABB (*TMax XT*)
Cutler-Hammer/Eaton (*PowerDefense*)
General Electric (*SpectraRMS*)
Square-D (*PowerPact*)

SWITCHGEAR

Busses

Tin plated bar copper, UL labeled and rated for short circuit stresses of 42,000_{RMS} amperes, with main bus continuous current rating equivalent to the current rating of the main disconnecting device. Where indicated, provide a full size insulated neutral bus, arranged for connection of incoming and outgoing neutral wiring. Provide a ground bus the full length of the switchgear for grounding of the equipment and the structural

frame. Furnish incoming line bus arrangement for connection of wiring entering from above or below as indicated. All busses shall be untapered, full capacity throughout.

Switchgear Assembly

Consisting of busses, a main breaker, feeder breaker positions, and spaces to receive future feeder breaker units.

Breakers

Provide manually operated, molded case circuit breakers, single throw, 600-volt, 60 hertz, 42,000_{RMS} symmetrical ampere interrupting rating at 480 volts, of ampere trip rating as indicated on the drawings.

Equip the electrically operated breakers with a stored energy type of mechanism for quick-make closing and with a field adjustable solid state selective trip device providing long time overcurrent tripping, short time overcurrent tripping, and ground fault protection complete with arc quenchers interpole barriers, position indicator, charge/close/open pushbuttons.

Series rated breakers are not acceptable. Equip breakers with a manually operated stored energy type mechanism for quick-make closing and with a field adjustable solid state selective trip device, providing long time overcurrent tripping, instantaneous short circuit tripping, and ground fault protection, complete with arc quenchers, interpole barriers, position indicator, manual trip button, manual operating handle and auxiliary switch for remote signaling.

GENERAL FEATURES

Make up all bus of high conductivity bar copper and mount on rugged insulating supports. Provide bus with continuous and short circuit current ratings equivalent to those of the transformer main secondary breaker. Provide a ¼ inch x 2-inch copper ground bus the full length of the switchgear.

Make load side terminal connections of all feeder breaker positions readily accessible from the front for making up cable connections. Silverplate contact surfaces of all bus and connections.

Fabricate switchgear supporting structure of welded sheets and shapes, with rear portion containing bus bars, supports, and current transformers, with space for feeder cables entering from above or below. Place circuit breakers and operating mechanisms in the front portion.

Enclose individual air circuit breakers in sheet steel compartments lined with arc resisting barriers where necessary and sealed to prevent flow of ionized gases into adjacent circuit breaker or bus compartments. Enclose each circuit breaker at the front by a hinged panel.

Provide grille type louvers for ventilation of ionized gases and in any other vertical part of the structure where necessary to insure a maximum internal air temperature of 15°C rise above room temperature.

Finish exterior and interior surfaces of the entire assembly with a gray synthetic lacquer or enamel, ANSI Standard No. 61.

Provide nameplates with suitable engraved letters on each breaker position. Use laminated white plastic nameplates with black engraved letters.

PART THREE - EXECUTION

DRAWINGS

The Contractor shall furnish drawings as follows:

- Floor plan and outline drawing
- Bill of material
- Breaker nameplate drawings
- Instruction books

- One line (submit for approval), schematic (submit for approval), and detail wiring diagrams.
- Any other drawings, instructions and information necessary for the installation and maintenance of the equipment.

SERVICE AND START-UP

The Contractor shall quote a per diem charge for the services of a field engineer for testing and during start-up. The service engineer shall be on the job within a reasonable time after notification by the Owner's Representatives. The time anticipated is 72 hours after notification.

SHIPMENT

There shall be not more than one (1) shipping section. The equipment shall be shipped with lifting angles of sufficient strength to allow lifting from above. The switchgear shall be shipped with all switches mounted completely thereon and wired, with suitable blocking of the movable elements, if required, to prevent damage during shipping and handling.

All equipment shall be shipped protected from all sources of damage which could be reasonably expected in transit or in handling at the job site. The equipment shall be braced and packed during shipment to prevent damage and distortion to structural components.

SERVICE FACILITIES

The Contractor shall have an established group of service personnel and service terminal within 250-300 miles of the site from which he is equipped to dispatch qualified technical personnel and parts upon call by the Owner.

INSTALLATION

Installation shall be under this Contract and the panel shall be mounted 6 inches from the finished floor on a concrete housekeeping pad.

END OF SECTION

26 3323 – ELECTRIC VEHICLE (EV) CHARGER

PART ONE - GENERAL

RELATED DOCUMENTS

The work under this specification is subject to all of the Contract Documents that apply to the entire work. ***Note that the Electric Vehicle (EV) Chargers are being supplied by the Owner but installed under this Contract. This specification is only being issued for reference to the product being supplied by the Owner.***

SUMMARY

Extent of the electric vehicle charger work is indicated by Drawings and by requirements of this section. Provide the electric vehicle charging equipment and accessories as required, as indicated or specified.

QUALITY ASSURANCE

Source of Quality Control

Furnish equipment, cables, and lugs on which standard factory tests established by ASTM, ANSI, AEIC, ICEA and NEMA have been performed

UL Compliance

Provide equipment and accessories which are UL listed and labeled.

SUBMITTALS

Product Data

Submit product data for the electric vehicle charging equipment. Identify material, construction data, and suitability for application intended and manufacturer's recommendations for items specified.

DELIVERY, STORAGE AND HANDLING

Store equipment in a clean dry location. Maintain the ambient temperature above 60°F in a non-condensing atmosphere. Do not accept delivery of the equipment until it is ready to be installed.

PART TWO - PRODUCTS

MANUFACTURERS

ZeroVA Technologies Co. ZeroVA DS60
Heliox/Siemens 60kW Charger

ELECTRIC VEHICLE CHARGER

The 30kW pedestal-mounted charger shall support CCS, CHAdeMO, and NACS standards, operating independently for a high conversion rate and PF by dynamic power distribution. It shall contain multiple protections, including OVP, OCP, OTP. It shall comply with CE, UL2202, UL2231, and FCC standards to ensure stability and safety. It shall be equipped with 7-inch LCD screens with customizable UI managed by a remote CMS for charging information, payment, and brand logo, etc.

The input voltage shall be a three-phase, 480VAC source with a maximum input current rating of 40A and a three-phase power rating of 33kVA. The power factor shall be 0.99 at full power. Its efficiency shall be not less than 94%. The DC output shall be 150 to 950V with CCS air cooling of 60/80A and a NACS rating of 80A. Each pedestal shall have one port with a 24.6-foot cable length. The charger shall be capable of continuous operation at rated current at an ambient temperature of -22°F (-30°C) to 122°F (50°C). The charger shall be naturally convection cooled (no fans) and housed in a NEMA type 3R steel enclosure.

The charger shall be suitable for pedestal mounting and shall complete for mounting on a concrete pad. All

components shall be readily accessible from the front.

Charger shall have the capability of accepting an AC source voltage of +10% or – 12% of its rated nameplate input voltage.

The charger shall maintain the electric vehicle on float charge after recharge has occurred. The charger shall be designed to the most recent NEMA PE5 standard, 1997.

Electric vehicle charger shall automatically supply the required DC output current for the connected electric vehicle and load while maintaining the proper output voltage either to factory default settings or user reprogramming via charger's touch panel control.

Power factor of the charger shall be a minimum of 0.88 at rated output. The electric vehicle charger shall automatically report alarms, equalize, and current limit. The electric vehicle charger shall display all parameters of operation and alarm functions without the need for codes on an LCD display with membrane controls.

Control: Each EV battery charger shall have the following controls and annunciation: a) by means of a remote contact, shut down the charger. The contact shall have the wetting voltage supplied by the charger, b) by means of a remote contact, allow the charger to supply power to the source from any connected bus(es). The contact shall have the wetting voltage supplied by the charger, and c) by means of an internal contact, indicate whether a bus is connected to the charger. The contact shall have the wetting voltage supplied by others.

Protective Devices: The charger shall incorporate circuit breakers as standard for AC input and DC output protection as well as for disconnect purposes. Optional transient over voltage protection on the DC output shall be via an MOV (metal oxide varistor) connected on the DC output terminals of the electric vehicle charger. The charger shall be protected against damage in the event that the electric vehicle is connected in reverse.

There shall be integral protection from oscillatory surges (SWC) as defined by ANSI C37.90 1978. Electric vehicle charger shall operate correctly during and after application of oscillatory surges. Output current limit shall be adjustable from 80% to 110% of charger rated output. The electric vehicle charger shall be self-protecting from a short circuit on the output by operating in current limit down to a short on the output. The charger shall return to normal operation when the fault is removed. The charger shall indicate operation in current limit that shall be self-extinguishing when the charger drops below the current limit setting. Transformers shall be designed for Class N operation (rated to 200°C).

One set of Form C contacts shall be standard for loss of AC, Rectifier failure, and high voltage shutdown. Ground fault detection sensitivity shall be user adjustable in 500 ohm increments from 500 to 20,000 ohms.

Safety: The chargers shall be UL listed. The chargers shall be equipped with a redundant high voltage shutdown circuit, one factory set and one user adjustable that will safely shutdown the charger in the event of loss of control to protect the connected load and electric vehicle. There shall be a capacitor discharge button incorporated as a safety function.

Documentation: A charger product manual shall be provided. The manual shall include Receiving Instructions, Introduction, Installation, Commissioning, Configuration and Operation, Circuit Description, Maintenance and Programming Flow Chart sections. Charger cabinet outline drawings, assembly drawings, wiring diagrams and parts list shall be included in the product manual.

PART THREE - EXECUTION

INSTALLATION

The Contractor shall connect the electric vehicle charger to the distribution panel as shown in the documents. All work shall be installed as per manufacturer's certified installation instructions.

END OF SECTION

26 3326 – BATTERY ENERGY STORAGE SYSTEMS

PART ONE - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to work specified in this section.

SUMMARY

Extent of battery energy storage system (BESS) work is indicated by Drawings and by requirements of this Section. Provide battery energy storage systems as required, and all materials and equipment, including accessories and associated equipment, as indicated or specified.

STANDARDS AND TESTS

The equipment called for in these specifications, including the testing thereof shall conform to the latest IEEE, ANSI and NEMA standards for this form of equipment. Where differences exist between the aforementioned standards, ANSI/IEEE standards shall govern. In addition, the installation and equipment furnished under this project shall conform to the following:

- NFPA 855, Standard for the Installation of Stationary Energy Storage Systems
- UL 1642, Standard for Lithium Batteries
- UL 1973, Batteries for Use in Light Electric Rail Applications and Stationary Applications
- UL 9540, Energy Storage Systems and Equipment
- UL 9540A, Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems
- IEEE Std 1547-2018, Connecting Distributed Energy Resources
- UL 1741, Standard for Static Inverters and Charge, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources
- UL 62109-1, Safety of power converters for use in photovoltaic power systems – Part 1: General Requirements

PART TWO – PRODUCTS

The project consists of the installation and supply of the BESS's noted herein subject to the specifications indicated below:

ACCEPTED MANUFACTURERS

MediProducts - Piller Power Systems/Battery Energy Storage System or accepted equal (BESS distributor information is available upon request from the Engineer).

BESS Capacities

- a. North Environmental Science Magnet School/Piller Model #P240-192LI600-480 (240kW, 480V, 3-phase, 982.4kWh)
- b. Pattengill Biotechnical Magnet School/Piller Model #P240-192LI600-480 (240kW, 480V, 3-phase, 982.4kWh)
- c. Wexford Montessori Academy/Piller Model #P120-96LI600-480 (120kW, 480V, 3-phase, 491.2 kWh)
- d. Cavanaugh STEAM Elementary School/Piller Model #P120-96LI600-480 (120kW, 480V, 3-phase, 491.2 kWh)

The BESS, and associated equipment, shall be provided in self-contained National Electrical Manufacturers Association (NEMA) enclosure(s) rated for the site conditions (NEMA 1) requirements.

The BESS units shall be a three-phase UPS system with integral lithium-ion battery banks, delivering battery power at 480 VAC for the purposes of peaking as indicated in the theory of operation.

The BESS's shall have integral demand control, based on the minimum import provided by the service entrance metering CT's to provide demand control/ peak shaving to limit demand (kW) to programmed setting.

The BESS's shall have a "Time of Use Charge Reduction", integrated in its controls to discharge during on-peak hours in accordance with the site's rate tariff. A BMS (battery management system) shall be provided to control the charging and discharging of the equipment. The BMS shall be field programmable by connecting with a laptop and viewing/editing on a locally hosted web browser.

There shall be strict conformance to system marking requirements of BESS and their components, as this is crucial for the safety of operators, service personnel, emergency responders, and others. Electrical equipment and components used in BESS shall have markings that identify the manufacturer, size, type, ratings, hazard warnings, and other specifications.

PART THREE-- EXECUTION

The Contractor shall commission the BESS and provide a commissioning report documenting BESS performance during normal grid-tied operations. The Contractor shall provide one year of turnkey BESS maintenance and warranty service, through an O&M, assignable to the School District.

Permits and Licensing: Contractor is responsible for all permits, approvals, environmental compliance, freight, procurement, and incidentals as necessary to construct, and interconnect the complete BESS's, as described hereinafter. The Engineer shall submit the plans to the Michigan Licensing and Regulatory Affairs (LARA) for plan preview.

Interconnection to Electrical Distribution Systems: It is the responsibility of the Contractor to meet the Lansing Board of Water & Light's interconnection. Any local codes required by utility interconnection laws and regulations shall be followed by the Contractor.

Local Fire Marshall Involvement: The Engineer shall involve the fire marshal or organization responsible for fire protection to provide design advice and design approval. The Engineer shall invite local firefighters to a training where firefighters will be shown how the BESS works and how to shut it down, form a fire suppression plan, and shall work with the fire marshal to determine where to post the permanent instructions and required markings. The Engineer shall coordinate with local fire marshals on first responder training, and posted instructions for shutoffs.

Grounding: A suitable equipment grounding system shall be designed and installed for the BESS. The grounding system shall provide personnel protection for step and touch potential in accordance with IEEE 80. The system also shall be adequate for the detection and clearing of ground faults within the BESS.

Structural: The vendor shall furnish the design for the structural components of the BESS, concrete pads/foundations as required, and conduit required for the complete BESS.

Commissioning: The Contractor shall perform all work required for testing, start-up, and commissioning. The BESS shall be commissioned per the Electric Power Resource Institute (EPRI) "ESIC Energy

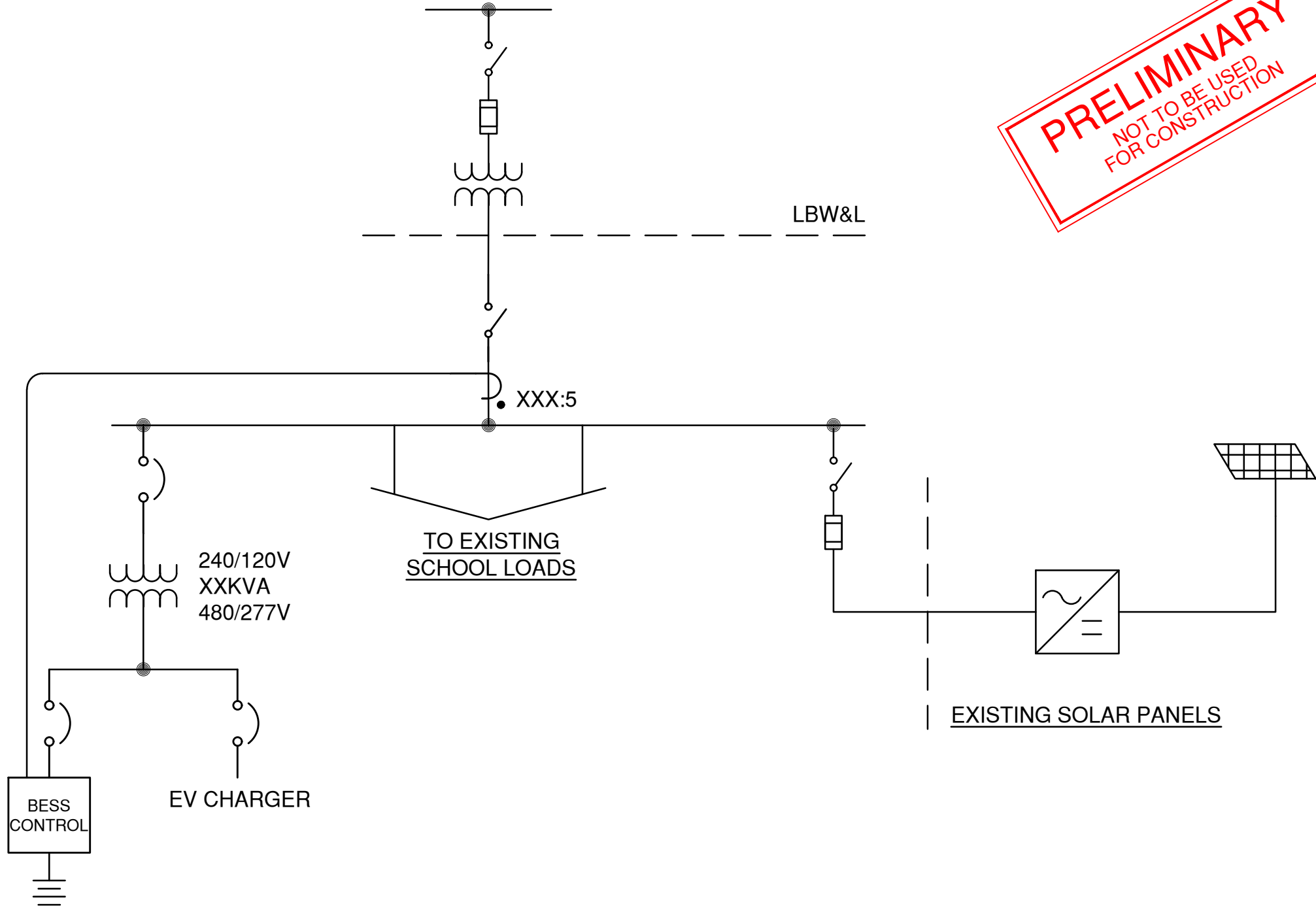
Storage Commissioning Guide". Contractor shall give Agency ten (10) business days advance notice prior to starting the commissioning.

Documentation: The Contractor shall supply three (3) copies of at least the documentation below:

- Final as-built drawings (record drawings), meeting as-built requirements
- Preventive maintenance work schedules and procedures
- Operation and maintenance manuals (electronic and hardcopy)
- Training manuals (electronic and hardcopy)
- Equipment documentation and spare parts lists
- Certificates of the Local Authority Having Jurisdiction (LAHJ) inspections

END OF SECTION

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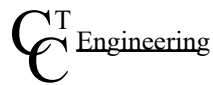
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**BATTERY ENERGY STORAGE SYSTEM/EV CHARGER ONE-LINE DIAGRAM
CAVANAUGH ELEMENTARY SCHOOL**



CAVANAUGH ELEMENTARY
SCHOOL
300 W CAVANAUGH RD
LANSING, MI 48910

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER



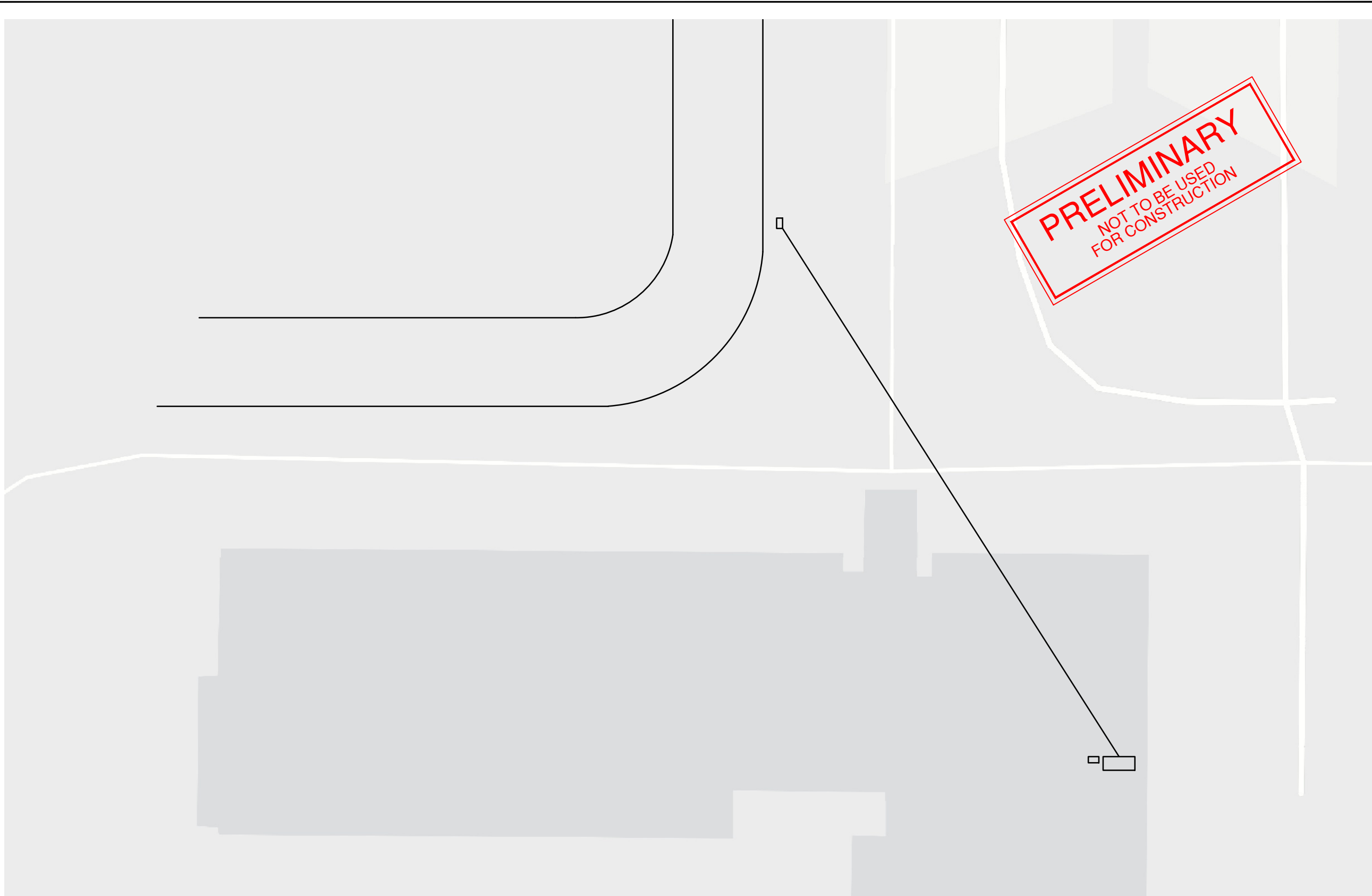
3915 Research Park Drive, Suite A-8
Ann Arbor, MI 48108
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ONE-LINE DIAGRAM

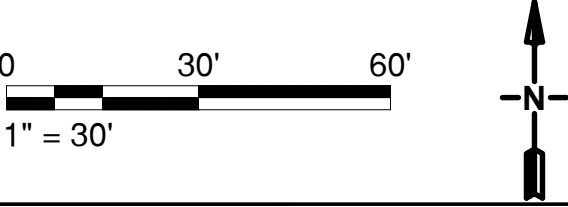
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SCALE	----
PLOT SIZE	ANSI B - 11" X 17"
PROJECT NUMBER	28172.01

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CAVANAUGH ELEMENTARY SITE PLAN



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CAVANAUGH ELEMENTARY SCHOOL
300 W CAVANAUGH RD
LANSING, MI 48910

BATTERY ENERGY STORAGE SYSTEM/
BUS EV CHARGER

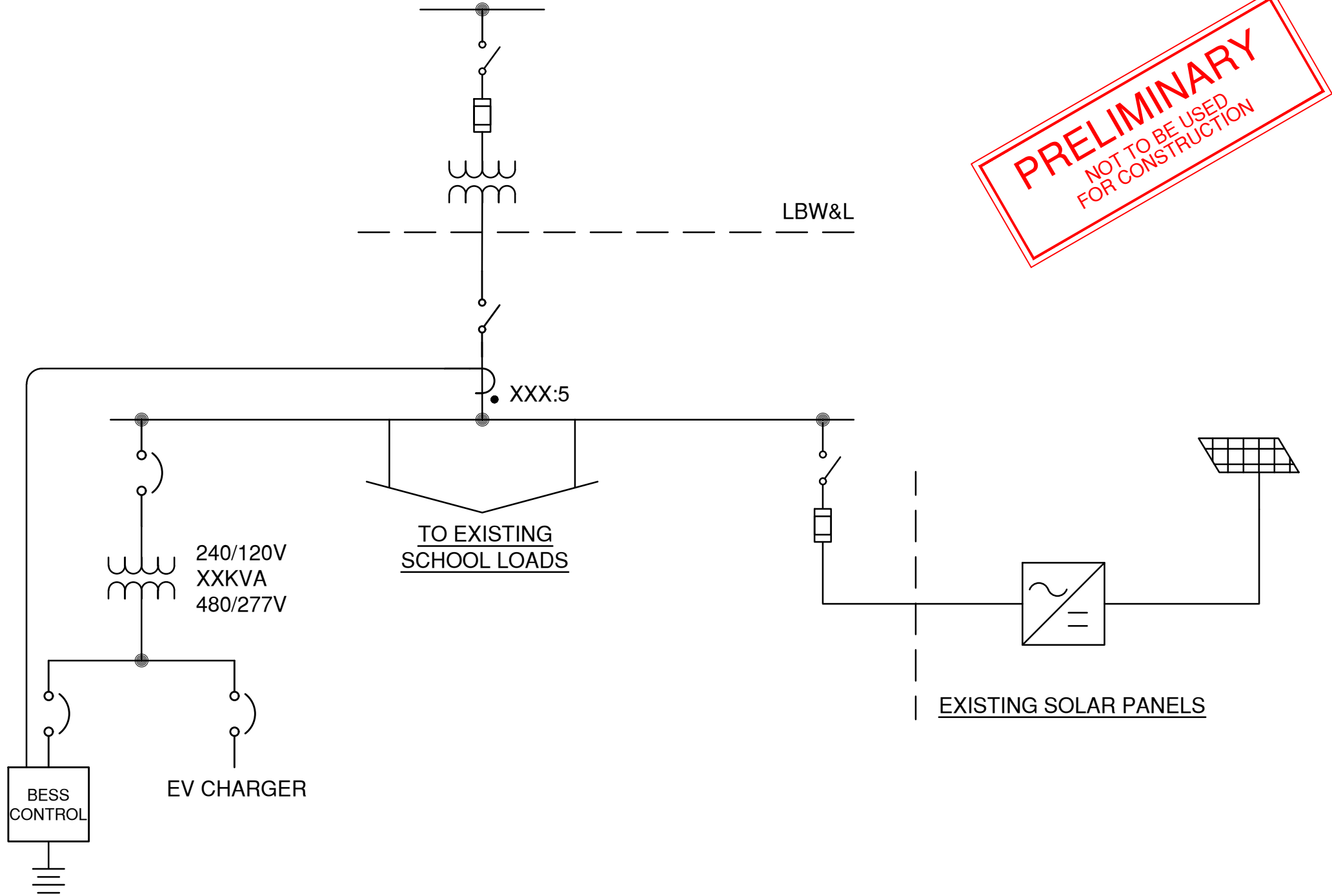


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SITE PLAN

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APPROVED	----
SCALE	----
PLOT SIZE	ANSI B - 11" X 17"
PROJECT NUMBER	28172.01
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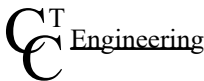
BATTERY ENERGY STORAGE SYSTEM/EV CHARGER ONE-LINE DIAGRAM
NORTH ELEMENTARY SCHOOL

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NORTH ELEMENTARY
SCHOOL
333 E MILLER RD
LANSING, MI 48911

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER



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ONE-LINE DIAGRAM

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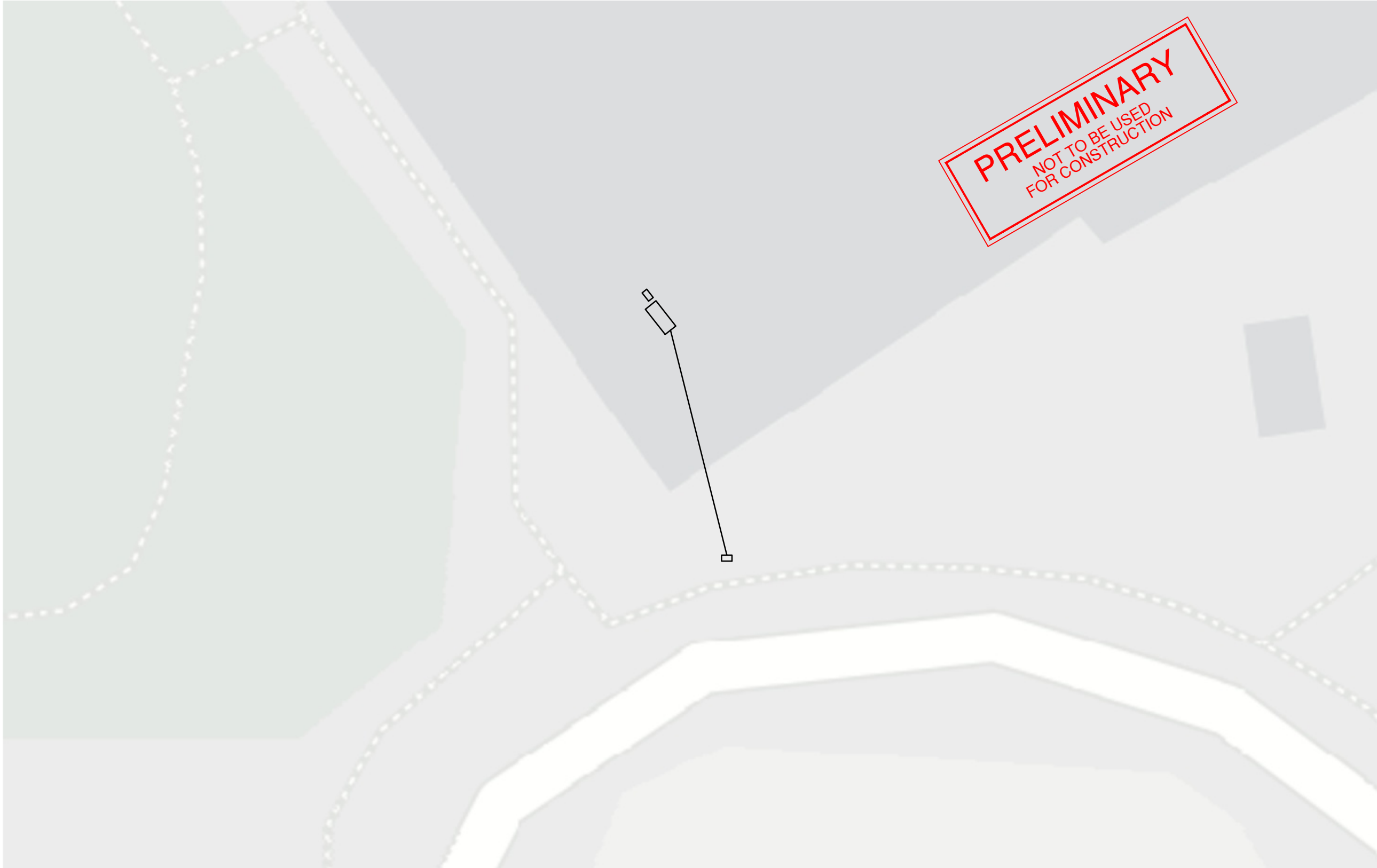
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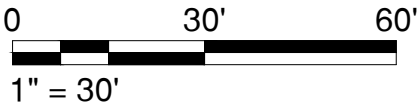
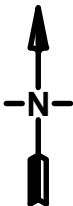
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NORTH ELEMENTARY SITE PLAN



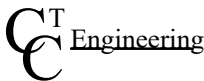
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NORTH ELEMENTARY
SCHOOL
333 E MILLER RD
LANSING, MI 48911

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER

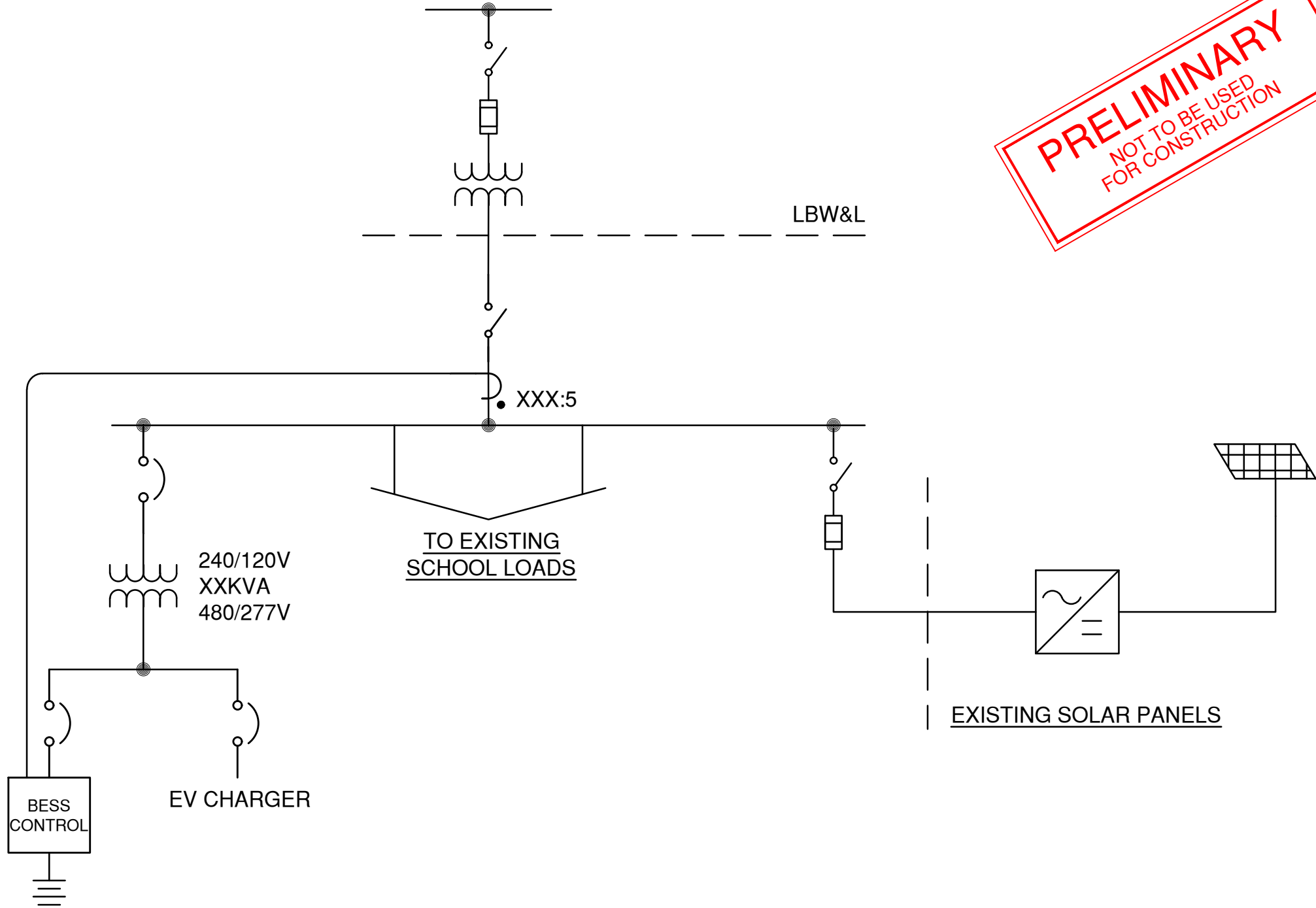


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SITE PLAN

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PLOT SIZE	ANSI B - 11" X 17"
PROJECT NUMBER	28172.01

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BATTERY ENERGY STORAGE SYSTEM/EV CHARGER ONE-LINE DIAGRAM
PATTENGILL BIOTECHNICAL MAGNET SCHOOL

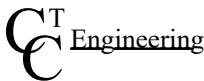
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PATTENGILL BIOTECHNICAL
MAGNET SCHOOL

815 N FAIREVIEW AVE
LANSING, MI 48912

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER



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ONE-LINE DIAGRAM

DRAWN GRS

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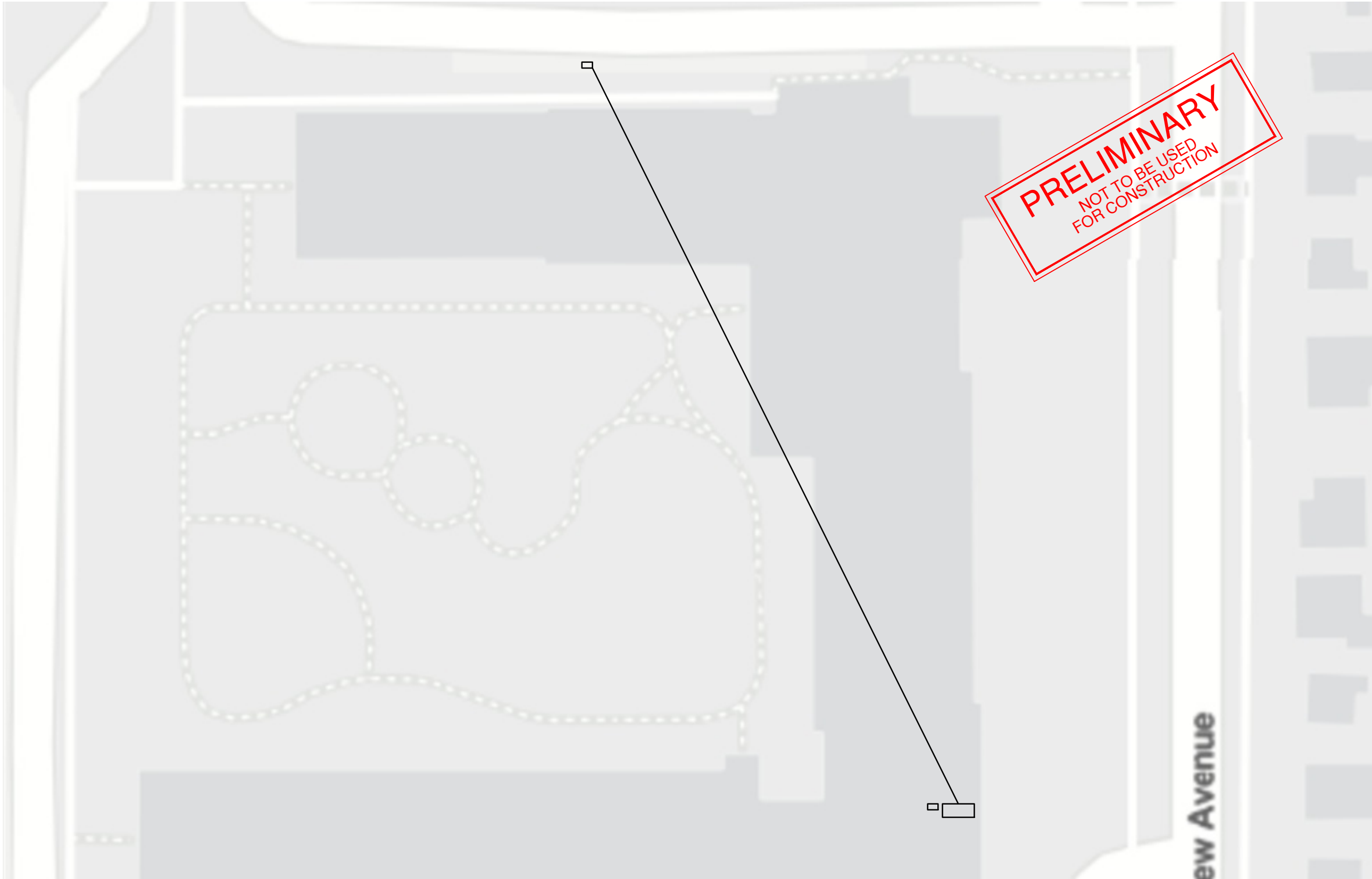
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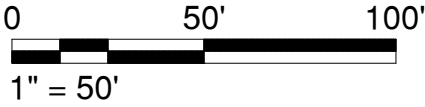
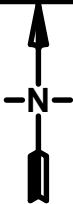
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PATTENGILL BIOTECHNICAL MAGNET SCHOOL SITE PLAN



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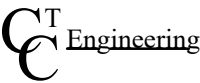
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PATTENGILL BIOTECHNICAL
MAGNET SCHOOL

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LANSING, MI 48912

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER

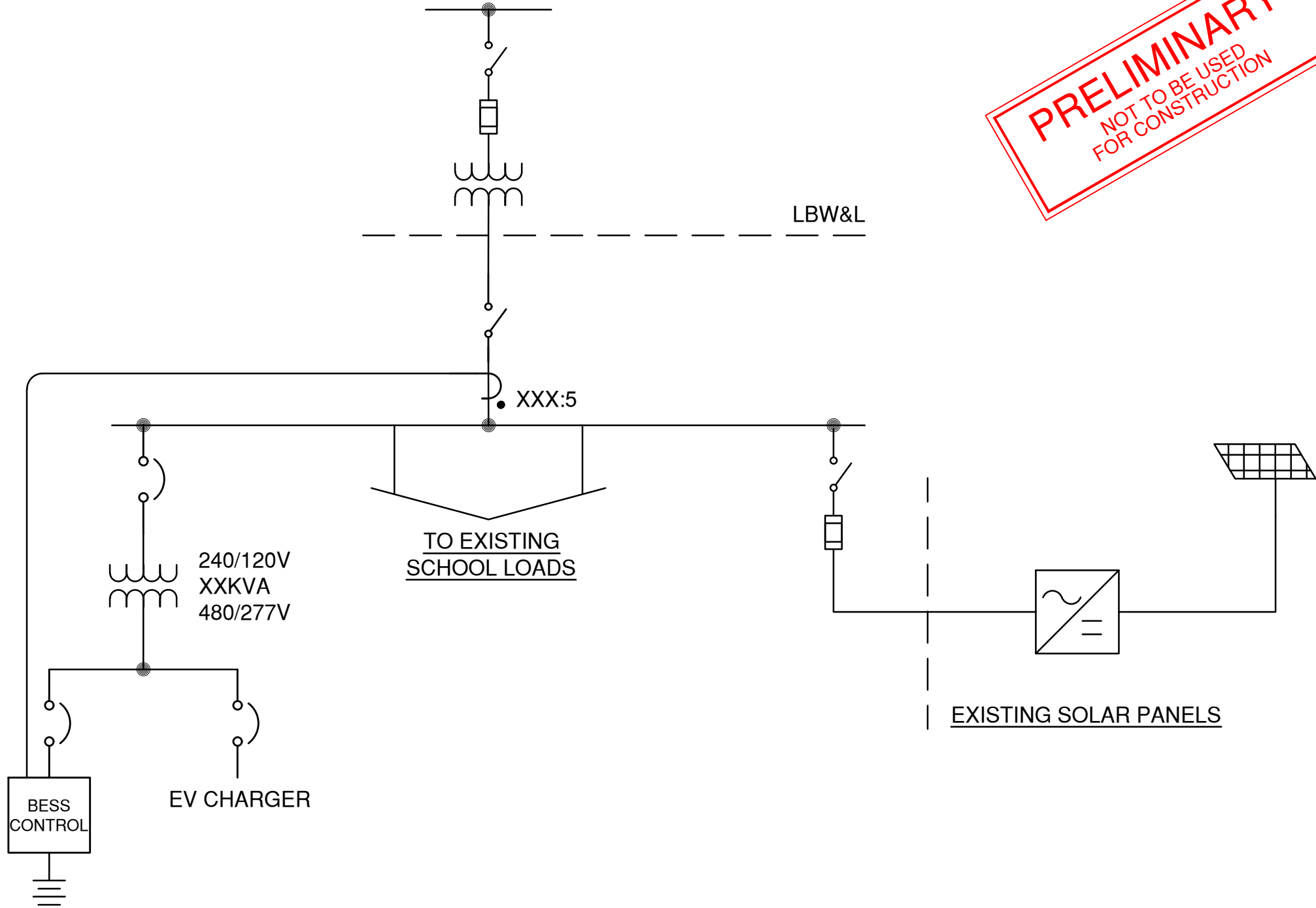


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SITE PLAN

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PLOT SIZE	ANSI B - 11" X 17"
PROJECT NUMBER	28172.01

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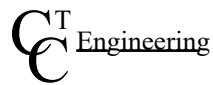
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**BATTERY ENERGY STORAGE SYSTEM/EV CHARGER ONE-LINE DIAGRAM
WEXFORD MONTESSORI ACADEMY**



WEXFORD MONTESSORI
ACADEMY
5217 WEXFORD RD
LANSING, MI 48911

BATTERY ENERGY
STORAGE SYSTEM/
BUS EV CHARGER



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ONE-LINE DIAGRAM

DRAWN GRS

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SCALE ----

PLOT SIZE ANSI B - 11" X 17"

PROJECT NUMBER
28172.01

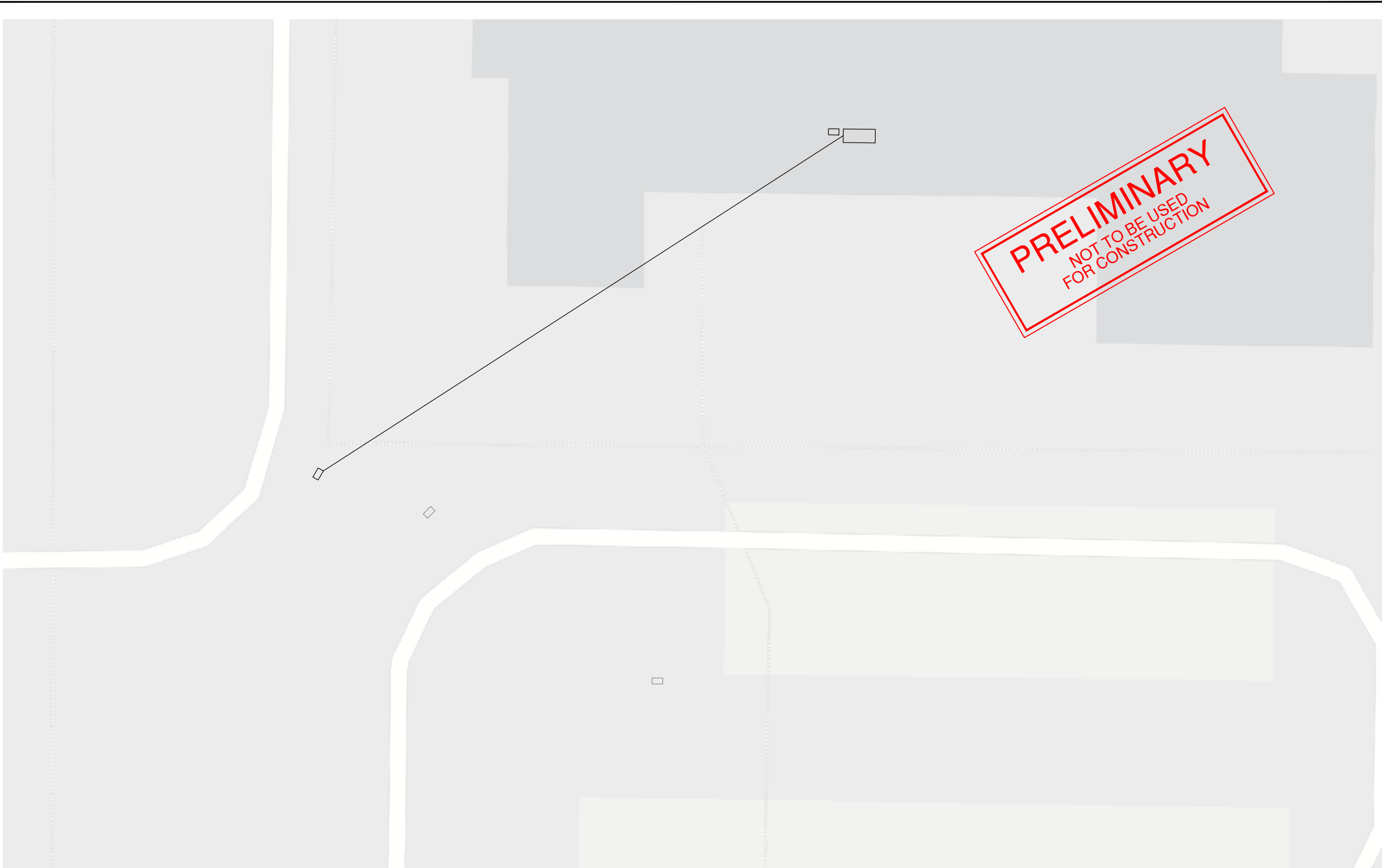
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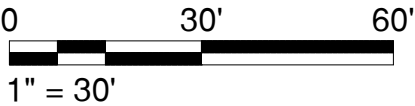
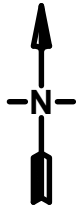
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DRAWING NO.
E-7



WEXFORD MONTESSORI ACADEMY SITE PLAN



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REV.	DESCRIPTION	DATE

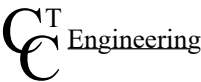
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10/14/2026	



WEXFORD MONTESSORI ACADEMY

5217 WEXFORD RD
LANSING, MI 48911

BATTERY ENERGY STORAGE SYSTEM/
BUS EV CHARGER



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SITE PLAN

DRAWN	GRS
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APPROVED	----
SCALE	----
PLOT SIZE	ANSI B - 11" X 17"
PROJECT NUMBER	28172.01