ACADEMIC OFFICE BUILDING

ELEVATOR REPLACEMENT

05-16-02

AUGUST 30, 2017
TABLE OF CONTENTS

Division 0 - Procurement
  000101 Cover Page
  000111 Table of Contents
  001113 Invitation to Bid
  004200 Bid Proposal Form
  005200 Draft Contract

Division 1 – General Requirements
  010000 General Conditions
  010001 Supplementary General Conditions 010002 Payment Procedures
  010003 AIA Document G702 Sample 010004 AIA Document G703 Sample 010008 Certificate of Substantial Completion 010010 Final Completion Checklist
  010012 Guaranty
  010014 Consent of Surety to Final Payment 010016 Sworn Statement
  010018 Full Unconditional Waiver 010020 Certificate of Final Completion 010022 Change Order
  011000 Summary of Work
  013300 Submittals

Division 14 – Elevator and Lifts
  0142000 – Elevator Specifications

Attachment 1: Prevailing Wages for Project

Reference Drawings:
  Floor Plan 1 of 3 Academic Office Building: Basement
  Floor Plan 2 of 3 Academic Office Building: First Floor
  Floor Plan 3 of 3 Academic Office Building: Second Floor
  Floor plan and building section
INVITATION TO BID

PROJECT: Elevator Replacement in the Academic Office Building

DUE DATE: Until 3:00 P.M. Local time (EDT) on September 28, 2017, the Owner will receive sealed proposals for the work as herein set forth at the offices of:

Attn. Lori Weir - Facilities Management
100 Facilities Building - Waterfront
1400 Townsend Drive
Michigan Technological University
Houghton, MI 49931

at which time and place all proposals will be publicly opened and read aloud.

DOCUMENTS: Bidding documents consisting of proposal forms, plans, specifications, and other pertinent data can be viewed and downloaded from the Facilities Management web site at the following address: http://www.mtu.edu/facilities/planning/bids/. Please call Project Engineer, Jim Rathbun at 906-487-2305, if you have technical questions.

SITE INSPECTIONS: Bidders can schedule a site inspection and Pre-Bid Walk-through by calling Project Engineer, Jim Rathbun at 906-487-2305.

PROPOSAL GUARANTEE: All bidders submitting bids in excess of $50,000 must provide a certified check or bank draft payable to Michigan Technological University - or- a satisfactory Bid Bond executed by the Bidder and surety company, in an amount equal to but not less than five percent (5%) of the maximum proposal amount.

CONTRACT SECURITY: The successful bidders will be required to furnish a satisfactory performance bond and labor and material payment bond in amounts each of one-hundred percent (100%) of the accepted bid.

EQUAL EMPLOYMENT OPPORTUNITY: All bidders shall comply with all current Federal and State Equal Employment Opportunity requirements.

Michigan Technological University reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received.

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer, which includes providing equal opportunity for protected veterans and individuals with disabilities.
BID PROPOSAL FORM 05-16-02

Attn: Penny Foetisch
Facilities Management
Michigan Technological University
1400 Townsend Drive
Houghton, MI  49931-1295

Having carefully read the specifications and drawings dated August 30, 2017 for Elevator Replacement in the Academic Office Building, the undersigned agrees to perform the work in accordance with Invitation to Bid No. 05-16-02

The undersigned also agrees to complete all work for this project by June 1st, 2018 or sooner

A) Our bid to Remove and Replace the existing Elevator in the Academic Office Building including all demolition, new car, motor, mechanisms, controls and State of Michigan approvals:

$ ____________________________________________
(Bid price in numbers and words)

Bidder acknowledges receipt of the following addenda:

Addendum No. ___________ Dated: ___________
Addendum No. ___________ Dated: ___________
Addendum No. ___________ Dated: ___________

Name: _____________________________________ Date: _______
(Signature)
Name: _____________________________________
(Print)
Title: ________________________________
Firm: _________________________________

Sealed proposals will be received at Facilities Management, Bldg. 44, on the waterfront of Michigan Technological University, Houghton, Michigan until 3:00 P.M. on September 28, 2017. (Return one copy to Facilities Management. Retain one copy for your files.)
Owner: Michigan Tech University, 1400 Townsend Dr., Houghton, MI

Project: Elevator Replacement - Academic Office Building

MTU Project Number: 05-16-02

Contract for: Remove and replace the existing elevator in the Academic Office Building including demolition and complete removal of existing elevator, new car, motor, mechanisms, controls and State of Michigan approvals. Contractor will provide requirements for new machine room (if required) and electrical feed – Both will be furnished by Owner

Contractor: TBD

Contract Start Date: October 19th, 2017

Contract Completion Date: June 1, 2018 or Date of Final Payment

This Agreement, is authorized and made to be effective as of this day of ____________ between Michigan Technological University, a Michigan constitutional corporation located in Houghton, Michigan, (the “University”) and < >, (the “Contractor”), a corporation located at < >, for contract services to be provided by the Contractor, to the University for, and in connection with, the following described project located at the University’s campus in Houghton, Michigan. The Contractor and the Owner, agree as follows:

ARTICLE 1 - THE CONTRACT DOCUMENTS:

The Contract Documents consists of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Specifications, Construction Plans/Drawings, etc. as listed in this Agreement and Modifications issued after execution of this Agreement; these form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents other than Modifications, appears in Article 6.

ARTICLE 2 - SCOPE OF THE WORK:

The Contractor shall furnish all of the materials and perform all of the Work shown on Drawings and described in the Specifications for Elevator Replacement in the Academic Office Building - Project 05-16-02, prepared by Michigan Tech Facilities Management, 1400 Townsend Dr., Houghton, MI, 49931.
ARTICLE 3 - TIME OF COMPLETION:

The Work to be performed under this Contract shall begin October 19, 2017 or Date of Notice to Proceed, and shall be substantially completed on or before the Completion Date, June 1st, 2018 or Date of Final Payment.

ARTICLE 4 - PROGRESS PAYMENTS:

Michigan Tech shall make payments as provided in Articles 1.2.14 of the General Requirements and 012900 Payment Procedures and conditions set forth and agreed upon herein:

Based upon Applications for Payment submitted to Michigan Tech by the Contractor and Certificates for Payment issued by Michigan Tech, Michigan Tech shall make payments on the Total Contract Amount to the Contractor as provided below and elsewhere in the Contract Documents.

The period covered by each Application for Payment shall be one month ending on the 14th of each month.

Each Application for Payment and Conditional Waiver and Release on Progress Payment shall be based upon schedule of values consistent with format of AIA Documents G702, G703. The schedule of values (G703) shall allocate the entire Total Contract Amount among the various portions of the Work and supported by such data to substantiate its accuracy as Michigan Tech may require. This schedule of values, unless objected to by Michigan Tech, shall be used as a basis for reviewing the Contractor’s Application for Payment.

Applications for Payment shall indicate the percentage of completion of each portion of Work as of the end of the period covered by the Application for Payment. The amount of each Application for Payment (progress payment) shall be computed by:

1) Multiply the percentage complete of each portion of the work by the share of the Total Contract Amount allocated to that portion of the Work in the schedule of values, less retainage of ten (10%). Pending final determination of cost to Michigan Tech of changes in the Work, changes for amounts not in the dispute may be included per Section 1.2.8 of the General Requirements. The Total Contract Amount must be adjusted to reflect the changes in the Work by Change Order, then payment shall be allocated as to the completed portion of the Work in the adjusted schedule of values, less retainage of ten (10%).

2) The portion of the Total Contract Amount that is materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by Michigan Tech, suitably stored off the site at a location agreed upon
in writing), may be included in the Application for Payment less retainage ten (10%).

3) The amount of the Application for Payment requested shall not include any previous payments made by Michigan Tech.

4) The amount of the Application for Payment requested shall not include any previous amounts that Michigan Tech has withheld or a nullified Application for Payment.

5) Michigan Tech shall review the Application for Payment and sign it certifying it, thus it will become a Certificate of Payment.

6) Provided an Application for Payment and Conditional Waiver and Release on Progress Payment are received and approved by Michigan Tech, Michigan Tech shall make payment to the Contractor not later than thirty (30) days after receipt of the Application for Payment.

ARTICLE 5 - ACCEPTANCE AND FINAL PAYMENTS:

Final Payment, constituting the entire unpaid balance of the Total Contract Amount, shall be made by Michigan Tech to the Contractor when (1) the Contract has been fully performed by the Contractor except for the Contractor’s responsibility to correct nonconforming Work as provided in Subparagraph 1.2.12. of the General Conditions and to satisfy other requirements, if any, which necessarily survive final payment; and (2) a Final Certificate for Payment has been issued by Michigan Tech.

1) The Contractor may request in writing that Michigan Tech issue Substantial Completion. Upon receipt of written notice that the Work is ready for inspection and acceptance, Michigan Tech shall promptly inspect the Work.

2) When the Work has been Substantially Completed and accepted, Michigan Tech shall issue upon request by the contractor, Substantial Completion and a Final Completion Checklist as necessary. Upon completion of the Final Completion Checklist and upon request by the Contractor, Michigan Tech shall complete a Certificate of Completion. Michigan Tech shall make payments up to ninety-five percent (95%); less such amounts as determined by Michigan Tech for incomplete Work, unsettled claims, and any Work that is materially delayed through no fault of the Contractor; of the Total Contract Amount of the balance due for that portion of the Work Substantially Completed and accepted.

3) The Contractor may request in writing that Michigan Tech issue a Certificate of Final Completion and Final Payment upon completion of the Final Completion Checklist. Upon receipt of written notice that the Work is ready for final inspection and acceptance, Michigan Tech shall promptly inspect the Work.

4) When Michigan Tech finds the work is sufficiently complete per the Final Completion Checklist and Contract Documents in their entirety, Michigan Tech shall promptly issue the
Certificate of Final Completion that states that the Work provided in this Contract is complete, and that the Final Payment is due the Contractor, as noted in the Certificate of Substantial Completion. Final payment shall be due thirty (30) days after the Contract is fully performed.

ARTICLE 6 - THE CONTRACT DOCUMENTS:

The Contract Documents, together with this Agreement, form the Contract, and they are as fully a part of the Contract as attached:

- Specifications for this project dated 08/24/17 as listed in the Table of Contents
- Any Addendum issued prior to the bid date.

The Contractor’s signature on this Agreement indicates that the Contractor has read and will comply with each of these documents.

ARTICLE 7 - THE CONTRACT AMOUNT:

The **Contract Lump Sum** is as noted below.

The amount shown below shall be both in words and in figures. In case of discrepancy, the amount shown in words shall govern.

**Remove and Replace the existing Elevator in the Academic Office Building including all demolition, new car, motor, mechanisms, controls and State of Michigan approvals:**

$______________________________ (Bid price in numbers and words)
IN WITNESS, WHEROF, each of the parties has caused this Contract to be executed by its duly authorized representatives on the date first mentioned above.

FOR THE CONTRACTOR

______________________________/________________________
Signature Date

Title

FOR MICHIGAN TECHNOLOGICAL UNIVERSITY

______________________________ Date____________________

Kerri Sleeman
Executive Director – Facilities Management
010000 - GENERAL REQUIREMENTS

1.1. INSTRUCTION TO BIDDERS

1.1.1. PREPARATION OF PROPOSALS: All proposals shall include supplying all materials, equipment, and labor, and shall be submitted on the attached proposal form. The forms are to be filled out in ink or typewritten, with the bidder's authorized agent's signature in longhand. Each proposal shall be delivered in an opaque sealed envelope marked with the project name, Bid No., and bidders name.

1.1.2. BID FORM: No telephonic, telegraphic or digital facsimile (FAX) bid or telephonic, telegraphic or digital facsimile (FAX) modification of a bid will be considered. No bids received after the time fixed for receiving them will be considered. Late bids will be filed unopened.

1.1.3. BID GUARANTEE: Each proposal for which the base bid exceeds $50,000.00 shall be accompanied by either a certified or cashier's check on an open, solvent bank or a bid bond with an authorized surety company in the amount of 5% of the base bid, payable to Michigan Technological University, as a guarantee of good faith. If the successful bidder fails to furnish satisfactory bonds and insurance as required by the General Conditions within 7 days after notice of award, such guarantee shall be forfeited to the Owner as liquidated damages and the Owner shall be entitled at its sole option to immediately cancel, revoke, withdraw, or rescind its award. The guarantees of the three lowest bidders will be retained until the bond and insurance of the Contractor have been approved by the University. The guarantees of all other bidders will be returned within 10 days after the bid opening.

1.1.4. REJECTION OR WITHDRAWAL: The Owner reserves the right to accept or reject any or all proposals, in whole or in part, and also herein reserves the right to waive any informality or irregularities in any or all proposals and to make such award as it deems, in its sole discretion, to be in the best interest of the Owner. No bid may be withdrawn within 60 days after opening date without forfeiting bid security.

1.1.5. CONTRACT: Upon acceptance of any proposal by the Owner, a purchase order will be issued incorporating the accepted proposal and upon the Contractor furnishing satisfactory proof of compliance with all bond and insurance requirements will constitute the Contract. The Contract shall not be binding upon the Owner until the Contractor has furnished the Owner's Facilities Management Department satisfactory certification of compliance with the insurance and bond requirements under General Conditions and the Owner may withdraw or cancel its purchase order at any time prior to receipt of all such certifications.

1.1.6. TAXES: The Contractor shall include all applicable Michigan sales and use taxes currently imposed by Legislative enactment and as administered by the Michigan Department of Treasury, all applicable local or state permit, license or inspection fees, and all Federal taxes or fees applicable, and no additional payment over and above the bid amount shall be allowed for the same.

1.2. GENERAL CONDITIONS

1.2.1. DEFINITIONS
UNIVERSITY OR OWNER - Michigan Technological University

EXECUTIVE DIRECTOR OF FACILITIES MANAGEMENT – Kerri
A. Sleeman
DIRECTOR OF ENGINEERING SERVICES - Gregg Richards
CONTRACTOR - The Bidder whose proposal is accepted by the University.

1.2.2. CONFLICT AND OMISSIONS: The intent of the Contract Documents is to provide everything necessary for the proper execution of the work. In case of conflict among or ambiguity in the Contract Documents the Contractor shall immediately notify the Director of Engineering Services and the work shall not proceed until a decision has been agreed upon by all parties concerned. Any adjustment or interpretation by the Contractor without such agreement shall be at his own risk and expense. No work stoppage by the Contractor will extend the time for completion.

1.2.3. ROYALTIES, PATENTS, NOTICES, AND FEES: The Contractor shall give all notices and pay all royalties and fees, shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof, and shall comply with all laws, ordinances, and codes applicable to any portion of the work.

1.2.4. EXAMINATION OF PREMISES: The Contractor shall become familiar with local and on-site conditions affecting the job and the cost thereof, shall take independent measurements and make an examination and determination of all physical conditions affecting the work, and be responsible for the correctness of same even if they differ from those anticipated or indicated in the Contract. The Contractor shall be held to have made such examinations prior to bid submission and no allowances will be made in his behalf nor will any additional expenses be recoverable by reason of any error, omission, or misunderstanding on the part of the Contractor even if such actual conditions differ from those anticipated or indicated in the Contract. If any part of the Contractor's work depends for proper results upon existing work or the work of another contractor the Contractor shall examine the work and notify, before commencing work, the Director of Engineering Services of all defects or conditions which will affect the results. Failure to so notify will constitute acceptance of the conditions and render the Contractor responsible and liable for the results of any such defects or conditions which would have been revealed by complete examination and testing.

1.2.5. MOVING MATERIALS: If at any time it becomes necessary for the operation of the University to move materials temporarily located which are to enter into the final construction the Contractor furnishing the material shall, when so directed and without expense to the Owner, move them to another location.

1.2.6. MATERIALS AND WORKMANSHIP: All materials and workmanship shall be first-class in every respect and, unless otherwise specified, all materials and equipment shall be new and of the latest design. Should any disputes arise as to the quality and fitness of workmanship, equipment, materials or items, the decisions shall rest strictly with the University, and shall be based upon the requirements of the Contract Documents. The Contractor shall, if requested by the University, furnish evidence as to kind and quality of materials, at no additional cost to the University.

1.2.7. EMPLOYEES AND SUPERINTENDENCE: The
Contractor shall enforce good order among his employees and shall not employ on the work any negligent, disorderly, intemperate or unfit person, or anyone not skilled in the work assigned. All work shall be performed in a skillful and workmanlike manner. The Contractor, or an authorized representative, shall be at the site at all times, and shall have the plans and specifications available.

1.2.8. EXTRA WORK AND CHANGES IN WORK: The Owner, without invalidating the Contract, may order extra work or make changes by altering, adding to or deducting from the work, the Contract sum being adjusted accordingly. All such work shall be executed under the conditions of the original contract except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.

In giving instructions, the Owner shall have authority to make minor changes in the work, not involving extra cost, and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order from the Owner and no claim for an addition to the Contract sum shall be valid unless as ordered.

When so directed, the Contractor shall promptly submit his itemized estimate and proposal for such extra work or changes, as well as separate unit prices on work for both additions to and deductions from the Contract.

Adjustments in the Contract sum for any such extra work or change shall be determined by one or more of the following methods:

Method Number 1: By an acceptable estimate and lump sum proposal from the Contractor.

Method Number 2: By unit prices stated in the Contract or subsequently agreed upon.

Method Number 3: By actual cost of all labor and materials and a percentage or fixed fee for all other charges, such as overhead, profit, insurance, taxes and bonds. On any change which involves a net credit to the Owner, no allowance for overhead and profit shall be figured.

If none of the foregoing methods is agreed upon, the Contractor, upon receipt of an order as hereinbefore stated, shall proceed with the work. In such case and also under Method Number 3, the Contractor shall keep and present in such form as the Owner may direct, a correct account of the cost, together with vouchers. In any case, the Owner shall certify to the amount including the specified allowance for overhead and profit, due the Contractor.

The allowable fee for added work by Contractor's own forces shall not exceed 15% of additional cost and his fee on work performed by Subcontractors shall not exceed 7 ½% of additional cost. Quotations by Subcontractors at all times shall be subject to these same limitations.

1.2.9. OTHER CONTRACTS: The Owner may let other contracts in connection with the work and the Contractor shall properly connect and coordinate all work with the work of such other contractors. The Owner shall not be liable for any damages or increased cost occasioned by the failure of other contractors to execute their work as may be anticipated by these

Contract Documents. No contractor shall commit any act which will interfere with the performance of the work by any other contractor.

1.2.10. INSURANCE: No work connected with this Contract shall be started until the Contractor has submitted evidence, satisfactory to the Owner, depicting insurance coverage in accordance with the following:

1. Worker's Disability Insurance

The Contractor shall procure and shall maintain, during the life of this contract, Worker's Disability Insurance in work on the project under this Contract. In case any such work is sublet, the Contractor shall require the Subcontractor similarly to provide Worker's Disability Insurance for all of the latter's employees engaged in such work unless such employees are covered by the protection afforded by the Contractor's Worker's Disability Insurance. In case any class of employees engaged in hazardous work on the project under this Contract is not protected under the Worker's Disability Statute, the Contractor shall provide and shall cause each Subcontractor to provide Employer's General Liability Insurance for the protection of all such employees not otherwise protected.

2. General Liability Insurance

The Contractor shall carry, from the beginning of this Contract until completion of the same, general liability in the amount of $1,000,000 for each occurrence and $2,000,000 aggregate.

3. Property Insurance

The Contractor shall carry, from the beginning of this Contract until completion of the same, $1,000,000 for each property accident other than the property covered by this Contract.

4. Builders' Risk Insurance

The Contractor will assume all risk of loss for the first $100,000 on any single occurrence of damage to property of Owner or any third party, including the subject of this contract. This may be effected by purchase of insurance or by self-insurance, and must be primary and non-contributory. The Owner will assume all risk of loss for property damage in excess of $100,000 for any single occurrence.

5. Worker’s Compensation/Employer’s Liability

The Contractor shall carry, from the beginning of this Contract until completion of the same, Worker’s Compensation Employer’s Liability in accordance with Statutory required by the State and $500,000 per accident.

6. Automobile Liability

The Contractor shall carry, from the beginning of this Contract until the completion of the same, $1,000,000 in automobile insurance for each occurrence and the
Partial payments shall not relieve the Contractor from full responsibility for any claim which may result from any cause, including fire or any other casualty, until completion of the Contract and final payment. Any casualties shall not relieve the Contractor from performing the Contract.

Contractor will indemnify and hold harmless the University from and against all claims, judgements, liability and expense of any nature due to bodily injury; personal injury or damage to property arising out of, on account of or in connection with contractors (or any employee, subcontractor or agent of contractor) performance of the work or activity pursuant to the contract.

1.2.11. BONDS: The successful Contractor of a project for which the base bid exceeds $50,000.00 shall furnish in form and with sureties acceptable to the Owner, a performance bond and a labor and material bond, each in the amount of 100% of the Contract sum, as security for the faithful performance of all Work under the Contract, and payment of all charges in connection therewith. The cost of the aforesaid bonds shall be paid by the Contractor and included in the Contract Sum. No work connected with the Project shall be started until the Contractor has placed bonds, in proper form, on file with the University.

1.2.12. NONCOMPLIANCE WITH CONTRACT-TERMINATION: The Owner, at its option, may order suspension of the Work in whole or in part for such time as it deems necessary because of the failure of the Contractor to comply with the contractual requirements. The contract completion date shall not be extended on account of any such suspension or delay. In the event the Owner orders an suspension of the work, the Contractor shall not be entitled to any costs or damages resulting from such suspension; the Owner shall not in any manner be liable or responsible for such costs or damages. The rights of the Owner provided in this clause are in addition to any other rights or remedies provided under this Contract or by law.

In addition to all other rights and remedies contained herein, or at law or equity, the Owner may terminate this Contract when any default is not stopped immediately and corrected within a reasonable length of time after notification by the Owner. In the event of such termination the Owner may complete the contracted work and the Contractor and his surety will be liable for any excess cost occasioned by the Owner. In such case the Owner may take possession of and utilize in completing the work such necessary materials and equipment as may be on the Site.

1.2.13. GUARANTEE: The Contractor shall provide a written guarantee warranting all work under this Contract against faulty workmanship and defective materials, and to make good, at his own expense and promptly upon request by the Owner, all defective work and all damage to other work caused by such defective work, for 1 year from the date of signing of the Owner’s Certificate of Substantial Completion form. The provisions of this express warranty shall not affect or impair any of the Owner’s rights under any other applicable, implied, or expressed warranties.

1.2.14. PAYMENT: Payment for the work will be made in one sum at the completion of the contract except that partial payments aggregating 90% of the value of the completed work may be made at monthly intervals. If the contractor expects to request partial payments he shall submit a schedule of costs and quantities of the various parts of the work aggregating the total contract sum. When applying for partial or full payments, the Contractor shall submit a statement based upon this schedule, itemized and supported as the Director of Facilities Management may require and a Sworn Statement and Conditional Waiver and Release on Progress Payment setting forth the amounts due each subcontractor, supplier, and laborer.

The Contract will not be considered complete until the work has been finally accepted by the Director of Facilities Management and the following have been furnished: (1) the required guarantee, and (2) a sworn statement that all payrolls, material bills, and other indebtedness connected with the work have been paid, including such lien waivers as the M may request.

No presence, inspection, supervision, testing, or monitoring by the Owner or by any agent or representative thereof shall relieve the Contractor of responsibility for compliance with the terms of and performance pursuant to this Contract and the Contract Documents; nor shall any such conduct of the Owner or its agents or representatives constitute or be interpreted as constituting a waiver of any rights whatsoever or serve to stop them from requiring full performance by the Contractor.

1.2.15. NON-DISCRIMINATION CLAUSE: In connection with the performance of work under this Contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, national origin, age, sex, height, weight, or marital status. The Contractor will take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, religion, color, national origin, age, sex, height, weight, or marital status. Such action shall include, but not be limited to, the following: employment upgrading; demotion or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, age, sex, height, weight, or marital status.

3. The Contractor or his collective bargaining representative will send, to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or worker’s representative of the Contractor’s commitments under this section.

4. The Contractor will comply with all published rules, regulations, directives, and orders of the Michigan Civil Rights Commission relevant to Article 6, 1976 PA 453, as amended, which may be in effect prior to the taking of bids for any individual State project.

5. The Contractor will furnish and file compliance reports within such time and upon such forms as provided by
6. In the event that the Civil Rights Commission finds, after a hearing held pursuant to its rules, that a contractor has not complied with the contractual obligations under this agreement, the Civil Rights Commission may, as part of its order based upon such findings, certify said findings to the State Administrative Board of the State of Michigan, which the Board may order the cancellation of the Contract found to have been violated, and/or declare the contractor ineligible for future contracts with the State and its political and civil subdivisions, departments, officers, and including the governing boards of institutions of higher education, until the contractor complies with said order of the Civil Rights Commission. Notice of said declaration of future ineligibility may be given to any or all of the persons with whom the contractor is declared ineligible to contract as a contracting party in future contracts. In any case before the Civil Rights Commission in which cancellation of an existing contract is a possibility, the contracting agency shall be notified of such possible remedy and shall be given the option by the Civil Rights Commission to participate in such proceedings.

7. The Contractor will include, or incorporate by reference, the provisions of the foregoing paragraphs "1" thru "6" in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Michigan Civil Rights Commission and will provide in every subcontract or purchase order that said provisions will be binding upon each subcontractor or seller.

1.2.16 PERMITS, FEES AND NOTICES: The Contractor shall specifically secure Houghton County permits for Electrical, Mechanical and Plumbing work and schedule work inspections as required for approval. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations, and orders of any public authority bearing on the performance of the work. The University retains full jurisdiction of construction on campus and will make final determination of all variances.

1.2.17. USE OF SERVICES: The Contractor may use the Owner's water and power by contacting Michigan Tech Facilities Management for arrangements.

1.2.18. SCHEDULING: The Contractor shall meet with the Director of Engineering Services as follows: (1) prior to the start of work; (2) to schedule any interruption of University services; and (3) monthly, or as directed, to review the progress of work.

At the time work is commenced on the project, the Contractor shall prepare a progress schedule showing the dates for the commencement and completion of the various stages of construction. This schedule shall be coordinated with the Owner's required use of the facilities and other contractors' construction schedules, and shall be arrived at in consultation with the Director of Engineering Services and approved by all affected parties.

The Contractor shall furnish sufficient forces and construction plant and equipment to insure protection and progress of the work in accordance with the schedule.

Any changes in the work schedule are to be approved in advance by the Director of Engineering Services.

1.2.19. TEMPORARY CONSTRUCTION FACILITIES: All temporary construction facilities shall be neatly constructed and arranged on the Site in an orderly manner.

Suitable weather tight storage sheds, with raised floors, of capacity required to contain all materials which might be damaged by storage in the open shall be provided.

Construction equipment and other facilities such as ladders, ramps, etc., shall be strong, substantial, safe, and suitable for the purpose intended and shall comply with all University, Federal, State, and local requirements so as to maintain adequate and safe temporary access to all existing facilities. Temporary walkways, bridges, etc., shall be built with proper handrails, curbs, etc.

The Contractor will assume all risk of loss for any damage or destruction to the Contractor's temporary office, equipment, shanties, protective fence, scaffolding, staging, and all other miscellaneous materials and items owned or rented by the Contractor or any subcontractor used in the performance of this contract.

A temporary dust-proof enclosure of the work area, including existing machines and equipment, must be erected and maintained throughout the length of the project where required in the various Divisions herein.

1.2.20. CLEANLINESS OF THE WORK: The work and any public or private property occupied by the Contractor shall be kept in a neat and orderly condition at all times. Waste materials, rubbish, and debris shall be removed daily.

At the completion of the work all the Contractor's temporary buildings, equipment, tools, surplus or waste materials, and rubbish of every nature shall be removed from all occupied public and private premises and such premises shall be restored, as nearly as practicable, to the original condition. Such restoration shall be subject to the approval of the Director of Engineering Services.

Debris removed from the site must be disposed of in a licensed landfill as required by the Solid Waste Management Act, 1978 PA 614, as amended, being MCLA 299.402; MSA 13.29(1) and the administrative rules applying to the Act contained in the Michigan Administrative Code R 299.4101. The Contractor shall provide the Director of Engineering Services with written, dated and verified receipt of proper disposal.

GENERAL CONDITIONS
010000 - 4
8/30/17
verification that all debris removed has been disposed of in a licensed landfill. Any cost incurred by the Owner as a result of the failure of the Contractor to comply with this paragraph will be a charge against the Contractor.

All exposed surfaces of the work shall be left clean and free from all mud, grease, stains, or other extraneous materials.

The streets and service roads occupied or used by the Contractor shall be continuously kept clean of waste materials and refuse resulting from the work operations. Should the Contractor be negligent in the duties of maintaining proper cleanliness, the Owner will take steps to cause the required cleaning to be done and will deduct the cost thereof from any monies due the Contractor.

The elevators, if used, shall not be overloaded and suitable protection for the walls, floor, and ceiling shall be provided during use. Any damage to the elevators must be repaired to the Facilities Management Manager of Planning, Engineering, and Construction satisfaction.

1.2.21. FIRE PROTECTION DURING CONSTRUCTION: The Contractor shall have on the Site at all times fire protection equipment as required by applicable codes and ordinances and requirements of the Owner's insurance carriers. Prior to start of work, the Contractor shall be knowledgeable and proficient in Hot Work safety and in the Owner's Hot Work policies, procedures and requirements. The Contractor shall faithfully follow the Owner's Hot Work Policy, which regulates any temporary operation involving open flames or producing heat and/or sparks. The Contractor shall designate a Fire Safety Supervisor and Fire Watch for each Hot Work operation. The Fire Safety Supervisor shall not permit a hot work operation to proceed unless and until the provisions and required precautions checklist of the Owner's Hot Work permit are adequately addressed. The Fire Watch shall monitor the Hot Work area during and after the hot work operation to take measures to prevent fires and to respond to fires if they start.

During all construction operations in occupied building space, the Contractor shall construct and maintain a one-hour fire resistance separation between the part of the building under construction and the occupied part of the building, per the Life Safety Code NFPA 101, Section 1-3.11, 1997 Edition.

1.2.22. PARKING AND USE OF ROADS: Immediately after the award of the Contract, the Contractor shall consult with the Director of Engineering Services to determine authorized parking and access to the Site, routing of all construction vehicles, and re-routing of other traffic during construction, and shall organize the work in relation thereto.

At the beginning of the field work, the Contractor shall post signs limiting construction parking, if available, to the construction area. Parking for worker's cars is not guaranteed and is the Contractor's responsibility.

During construction, when use of roads or sidewalks is restricted by construction work, the Contractor shall erect temporary barricades, post notices and warning lights, and when required during working hours, direct traffic to prevent congestion. The Contractor shall maintain such as long as temporary work requires and then remove from the public areas.

1.2.23. SAFETY PRECAUTIONS: During the progress of the work, the Contractor shall maintain adequate facilities for the protection and safety of all persons and property. All local, state, and federal laws, ordinances, rules, and regulations pertaining to the kind, use, and loading of all apparatus and equipment shall be complied with. Work shall be done to conformance with "General Safety Rules and Regulations for the Construction Industry" published by the Department of Labor, Construction Safety Standards Commission, Lansing, Michigan 48926.

The contractor will immediately report all accidents involving persons and property to the University Public Safety Dept. A copy of the accident report must be filed with the Public Safety Dept.

The contractor shall conduct safety meetings during the progress of work. A copy of the minutes of these meetings must be submitted to the University. Contractor shall acknowledge Owner's Safety Requirements.

1.2.24. SUBSTITUTIONS:
1. The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

2. No substitution directly related to an "or equal" clause or similar language in the contract documents will be considered unless written request for approval has been submitted by the Bidder and has been received by the University at least ten days prior to the date for receipt of bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance, and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment, or work that incorporation of the substitute would require shall be included. A burden of proof of the merit of the proposed substitution is upon the proposer. The University's decision of approval or disapproval of a proposed substitution shall be final.

3. If the University approves any proposed substitution, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

After receipt of bids, the University will consider a request for substitution only for the following reasons:

1. Products listed are no longer available.

2. Where the specified product or method cannot be provided within the Contract Time. However, the request will not be considered if the product or method cannot be provided as a result of the Contractor's failure to pursue the work promptly or to coordinate the various activities properly.

3. Where the specified product or method cannot receive necessary approval by a governing authority and the requested substitution can be approved.

Where a substantial advantage is offered to the University, in terms of cost, time, energy conservation, or other consideration of merit, after deducting offsetting responsibilities the University may be required to bear. These additional responsibilities may include such considerations as additional compensation to the Architect for redesign and evaluation services, the increased cost of other work by the University or separate contractors, an similar considerations.
4. When the specified product or method cannot be provided in a manner which is compatible with other materials of the work, and where the contractor certifies that the substitution will overcome the incompatibility.

5. When the specified product or method cannot be properly coordinated with other materials in the work, and where the Contractor certifies that the proposed substitution can be properly coordinated.

6. When the specified product or method cannot receive a warranty as required by the Contract Documents and where the Contractor certifies that the proposed substitution receive the required warranty.

1.2.25. SUBCONTRACTS: The Contractor shall, as soon as practicable after the execution of the contract, notify the Owner in writing of the names of proposed subcontractors for the work. If the Contractor submits a list of proposed subcontractors prior to the execution of the contract, the Owner must be notified in writing of any change of subcontractor after the contract is executed. The Contractor will not employ any subcontractor that the Owner may, within a reasonable time, object to as incompetent or unfit.

The Contractor agrees to be fully responsible to the Owner for the acts and omissions of his subcontractors and of persons either directly or indirectly employed by them, as he is for persons directly employed by him.

Nothing contained in the contract documents shall create any contractual relationship between any subcontractor and the Owner.

Should material or workmanship, or parties furnishing same prove objectionable under the provisions of the contract, or should violations of the contract exist at the building or elsewhere, and continue after the contractor has received from the Owner a reasonable warning, then, upon request of the Owner, such objectionable parties shall be dismissed, removed, and excluded from the building or work. Such work shall be remedied and continued by others satisfactory to the Owner.

1.2.26. RELATIONS OF CONTRACTOR AND SUBCONTRACTOR: The Contractor agrees to bind every subcontractor and every subcontractor agrees to be bound by the terms of the Contract Documents as applicable to his work, unless specifically noted to the contrary in a subcontract approved in writing by the Owner.

1.2.27. UNIVERSITY RULES AND REGULATIONS: The Contractor shall comply with all laws, ordinances, rules, regulations, and orders of the Owner, and be responsible for and shall direct his employees to conduct themselves so as not to interfere with or disrupt the University educational activities. The Contractor, Subcontractors, and their employees and suppliers shall not use or interfere with the Owner’s existing accesses, drives, walks, and roads except as specifically indicated or by prior arrangement with the Owner. The Contractor shall confine his activities, equipment, and personnel to the area within the construction limits, except for minor operations as noted and by prior arrangement with the permission of the Owner. Existing areas disturbed outside the scope of the work shall be restored to their original state.

1.2.28. PREVAILING WAGE: Rates of wages and fringe benefits to be paid to each class of mechanics employed by the contractor and all subcontractors, shall be not less than the wage and fringe benefit rates prevailing in the locality in which the work is to be performed. Every Contractor and Subcontractor shall keep an accurate record showing the name and occupation of, and the actual wages and benefits paid to each construction mechanic employed by him in connection with said contract. This record shall be available for reasonable inspection by the Michigan Department of Labor and the University. Contractor responsibilities under the law: Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract. Every contractor and subcontractor shall keep an accurate certified payroll record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic employed by him in connection with said contract. This record shall be available for reasonable inspection by the contracting agent or the department. Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees. The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work. The prime contractor is secondarily liable for payment of prevailing rates that are not paid by a subcontractor. A construction mechanic shall only be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and training and the rate is included in the contract. Enforcement: A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the Wage and Hour Division. The department will investigate and attempt to resolve the complaint informally. Executive Order Number 2003-001 requires that contractors doing business with the State of Michigan be in compliance with state and federal law. A violation of Act 166 of 1965, as amended, the Prevailing Wages on State Projects act or Act 390 of 1978, as amended, the Payment of Wages and Fringe Benefits Act, may result in the debarment of a contractor from being awarded a contract for the provision of goods and services to the State of Michigan for a period of up to eight (8) years.

1.2.29. COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS: Notwithstanding any other specific provision herein, contractor (and any subcontractor) shall, at its sole expense, comply with all applicable federal, state, local and other laws, ordinances, rules and regulations in any manner applicable to the performance of the work or contractors’ activities in furtherance of or in connection with the work. Contractor will indemnify and hold harmless the University from and against any and all costs, claims, expenses or orders (including any penalties or fines assessed to University) incurred as a result of contractor’s failure to comply or contractor’s failure to perform any obligation imposed by the contract documents.
SECTION 010001

SUPPLEMENTARY GENERAL CONDITIONS

PART 1 PROTECTION - Contractor shall properly protect all new and existing work from damage. Proper safety provisions shall be made at all times for the protection of all persons and property. Contractor shall contact "Miss Dig" for all underground construction work as required by Michigan Public Act No. 53, 1974 and amended by P.A. 204, 1975.

PART 2 SHOP DRAWINGS:

Shop drawings as required to review configuration of all components and utilities as well as build outs of equipment room. Drawings required for proper installation and service are to be provided to owner for review.

PART 3 DEFINITIONS

A. Furnish: This term means procurement or fabrication of materials, equipment or components; or the performance of services to the extent indicated. Where used with respect to materials, equipment, or components, the term shall include delivery to and unloading at the Project site but is not intended to include the installation of the item, either temporary or final.

B. Install: This term means the placement of materials, equipment, or components including the receiving, unloading, transporting, storage, and installing; and the performance of such testing and finish work as is compatible with the degree of installation specified.

C. Provide: This term means to Furnish and Install, complete and in place, including all accessories, finishes, tests, and services as required to render the item so specified completely ready for use.

PART 4 AS-BUILT DRAWINGS - each contractor shall record, legibly and to scale, all field change and deviations from the contract drawings as they occur. This record shall be kept on a set of contract drawings. This set of drawings shall be turned over to the University prior to final payment.

PART 5 OPERATION AND MAINTENANCE MANUALS: Submit available manuals.

PART 6 SCHEDULE OF VALUES: Not required.

PART 7 DOCUMENT CLARIFICATION - All inquiries regarding project specifications and drawings shall be made to Jim Rathbun, the University’s engineer for the project, at 906-487-2305.

PART 8 CONTRACT COMPLETION - Completion of the Contract shall be on or before June 1, 2018.

PART 9 SECTION REMOVED
PART 10  ASBESTOS - This is not an asbestos abatement project The Contractor shall not start any work in any area that has not been inspected for asbestos by the Owner’s Occupational Safety and Health Services, or a qualified representative of the Owner, and found to be safe. If asbestos is found, safety measures as recommended by the Owner’s Occupational Safety and Health Services, or a qualified representative of the Owner, shall be implemented by the Owner before work is started. The Contractor is prohibited from using or supplying any asbestos containing materials for this project. Asbestos containing material (ACM) is present in the pipe insulation used in the Academic Office Building. No work or attachments are to be made to these elements.

PART 11  SUMMARY OF WORK

11.01 Perform all work to provide a complete, operational and State of Michigan permitted passenger elevator. There is only one elevator in the building, construction activities are to be scheduled such the old elevator is taken out of service and the new elevator is in-service with in a 5 week window.

11.02: The project consists of, but is not limited to, the following items:

11.02.1 Perform all work indicated in the Contract Documents.

11.02.2 Removing the existing elevator in the Academic Office Building. This includes the demolition and complete removal of the existing elevator, motor, mechanisms, controls, doors and accessories.

11.02.3 Install a new and complete passenger package, including but not limited to the following:

   a. Control Drives
   b. Microprocessor Controls.
   c. Power supply.
   d. Cables
   e. Braking devices
   f. Hydraulic lifts, pumps and motor.
   g. Door Operators.
   h. Car Operating Panel.
   i. Landing Pushbuttons
   j. Signal and Service Elevator Location Devices
11.02.4 Provide all required barricades, warning signs as required for safe work area

11.02.5 Protect all adjacent wall, ceiling and floor finishes. Clean the work area at the end of each work day.

11.02.6 Restore all public space wall finishes to “as new” condition.

11.02.7 All unused and obsolete equipment is to be removed and properly disposed.

END OF SECTION
010002 PAYMENT PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

1.2 SCHEDULE OF VALUES

A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.

1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
   a. Application for Payment forms with continuation sheets.
   b. Submittal schedule.
   c. Items required to be indicated as separate activities in Contractor's construction schedule.

2. Submit the schedule of values to Michigan Tech at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.

B. Format and Content: Use Project Specifications table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.

1. Identification: Include the following Project identification on the schedule of values:
   a. Project name and location.
   b. Michigan Tech.
   c. Michigan Tech's project number.
   d. Contractor's name and address.
   e. Date of submittal.

2. Arrange schedule of values consistent with format of AIA Documents G702, G703.

3. Provide a breakdown of the Total Contract Amount in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Specifications table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Total Contract Amount.

   a. Include separate line items under Contractor and principal subcontracts for Project closeout requirements in an amount totaling five percent of the Total Contract Amount and subcontract amount.

4. Round amounts to nearest whole dollar; total shall equal the Total Contract Amount.

   a. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.

   b. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.

5. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders result in a change in the Total Contract Amount.
1.3 APPLICATIONS FOR PAYMENT

A. Each Application for Payment shall be consistent with previous applications and payments as certified by Michigan Tech and paid for by Owner.

1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.

B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Michigan Tech and the Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.

C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.

D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Michigan Tech will return incomplete applications without action.

1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
2. Include amounts of Change Orders issued before last day of construction period covered by application.

E. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Michigan Tech by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.

1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

F. Waivers of Lien: With each Application for Payment, submit waivers of lien as indicated in the Agreement.

G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.
2. Schedule of values.
3. Contractor's construction schedule (preliminary if not final).
4. Schedule of unit prices.
5. Submittal schedule (preliminary if not final).
6. List of Contractor's staff assignments.
7. List of Contractor's principal consultants.
10. Initial progress report.
H. Application for Payment at Substantial Completion: After Michigan Tech issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Total Contract Amount

I. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:

1. Evidence of completion of Project closeout requirements.
2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
3. Updated final statement, accounting for final changes to the Total Contract Amount.
4. Completion of the Final Completion Checklist.
5. Evidence that claims have been settled.
6. Final liquidated damages settlement statement.

END OF SECTION 010002
APPLICATION AND CERTIFICATION FOR PAYMENT

TO OWNER: PROJECT: APPLICATION NO: Distribution to:

FROM CONTRACTOR: VIA ARCHITECT:

PERIOD TO: CONTRACTOR

PROJECT NOS:

CONTRACT FOR:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM $ 0.00
2. Net change by Change Orders $ 0.00
3. CONTRACT SUM TO DATE (Line 1 + 2) $ 0.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) $ 0.00
5. RETAINAGE:
   a. 10% of Completed Work $ 0.00 (Column D + E on G703)
   b. 5% of Stored Material $ 0.00 (Column F on G703)
   Total Retainage (Lines 5a + 5b or Total in Column I of G703) $ 0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total) $ 0.00
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) $ 0.00
8. CURRENT PAYMENT DUE $ 0.00
9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 less 6) $ 0.00

<table>
<thead>
<tr>
<th>CHANGE ORDER SUMMARY</th>
<th>ADDITIONS</th>
<th>DEDUCTIONS</th>
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<tr>
<td>Total changes approved in previous months by Owner</td>
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<tr>
<td>Total approved this Month</td>
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<td>TOTALS</td>
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<td>NET CHANGES by Change Order</td>
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ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . . . . . . . . $

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: Date:  

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.
AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION OF WORK</th>
<th>SCHEDULED VALUE</th>
<th>WORK COMPLETED FROM PREVIOUS APPLICATION (D + E)</th>
<th>WORK COMPLETED THIS PERIOD</th>
<th>MATERIALS PRESENTLY STORED (NOT IN D OR E)</th>
<th>TOTAL COMPLETED AND STORED TO DATE (D+E+F)</th>
<th>% (G ÷ C)</th>
<th>BALANCE TO FINISH (C - G)</th>
<th>RETAINAGE (IF VARIABLE RATE)</th>
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| GRAND TOTALS | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 | $0.00 |

Users may obtain validation of this document by requesting of the license a completed AIA Document D401 - Certification of Document’s Authenticity.
010008 Certificate of Substantial Completion

<table>
<thead>
<tr>
<th>Project:</th>
<th>Owner:</th>
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<tbody>
<tr>
<td>Elevator Replacement in the Academic Office Building</td>
<td>Michigan Technological University</td>
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<tr>
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<td>1400 Townsend Drive</td>
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<td>Houghton, MI 49931</td>
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<tr>
<th>Project Number: 05-16-02</th>
<th>Contract Date:</th>
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<td>Contractor:</td>
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Substantial Completion Date and Final Completion Checklist:
The Work performed under this Contract as reviewed by the Contractor is substantially complete by the Contractor’s knowledge, information, and belief; the condition of the work is sufficiently complete per Contract Documents and the Owner can occupy for intended use.

The Contractor hereby requests that Michigan Tech issue Substantial Completion notification for the project noted above.

If necessary, any Remaining Items to be completed and/or corrected are included on the 010010 Final Completion Checklist. The list does not alter the responsibility of the Contractor to complete Work per Contract Documents.

By signing below, the Contractor acknowledges that they will complete and/or correct the Remaining Items as documented on the Final Completion Checklist by the date listed as Completion Date on the Agreement, or as modified by subsequent Change Orders.

Contractor Signature  By Date

Owner’s Issuance of agreement for Substantial Agreement:
Michigan Technological University’s representative hereby agrees that the project is substantially completed, and that this date shall be the Date of Commencement of Warranties for all items as established by the Contract Documents, including any listed in the Final Completion Checklist.

Owners Signature  By Date
## 010010 Final Completion Checklist

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<th>Space</th>
<th>Items to Complete</th>
<th>Date of Completion</th>
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<td>10.</td>
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The CONTRACTOR, as a condition precedent to final payment, shall execute this Guaranty to the OWNER, guaranteeing for five (5) year from the date of final payment, to keep in good order and repair any defect in all the work completed under the Agreement. This includes work which may develop during said period due to improper materials, defective equipment, improper materials workmanship, or arrangements and in any work which may be affected in correcting any repairs or defects. This Guaranty will be binding upon the CONTRACTOR, his subcontractors and/or material suppliers and will be without any expense to the OWNER.

OWNER: ________________________________

Print

Signature

Date

CONTRACTOR: ________________________________

Print

Signature

Date

GUARANTY
010012 - 1
08/30/17
CONSENT OF SURETY
TO FINAL PAYMENT
AIA Document G707
(Instructions on reverse side)

TO OWNER:
(Name and address)

ARCHITECTS PROJECT NO.:

PROJECT:
(Name and address)

CONTRACT FOR:

ARCHITECT

CONTRACTOR

SURETY

PROJECT NUMBER:

CONTRACT DATED:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the

(Surety)

on bond of

(Contractor)

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of

(Owner)

any of its obligations to

as set forth in said Surety's bond.

IN WITNESS WHEREOF, the Surety has hereunto set its hand on this date:

(Surety)

Attest:

(Seal):
A. GENERAL INFORMATION

1. Purpose
   This document is intended for use as a companion to AIA Document G706, Contractor's Affidavit of Payment of Debts and Claims, on construction projects, where the Contractor is required to furnish a bond. By obtaining the Surety's approval of final payment to the Contractor and its agreement that final payment will not relieve the Surety of any of its obligations, the Owner may preserve its rights under the bond.

2. Related Documents
   This document may be used with most of the AIA's Owner-Contractor agreements and general conditions, such as A201 and its related family of documents. As noted above, this is a companion document to AIA Document G706.

3. Use of Current Documents
   Prior to using a new AIA document, the user should consult the AJA, an AIA component chapter or a current AJA Documents List to determine the current edition of each document.

4. Limited License for Reproduction
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   A limited license is hereby granted to rail purchasers to reproduce a maximum of ten copies of a completed or executed G707, but only for use in connection with a particular project. Further reproductions are prohibited without the express permission of the AIA.

B. CHANGES FROM THE PREVIOUS EDITION
   Changes in the location of various items of information were made. Without revision, these changes are intended to maintain the legibility of the form.

C. COMPLETING THE G707 FORM
   GENERAL: The bond form is the usual source of required information such as the contract date and the names and addresses of the Surety, Owner, Contractor, and Project.
   ARCHITECT'S PROJECT NO.: This information is typically supplied by the Architect and entered on the form by the Contractor.
   CONTRACT FORM: This refers to the scope of the contract, such as "General Construction" or "Mechanical Work".

D. EXECUTION OF THE DOCUMENT
   The G707 requires both the Surety's seal and the signature of the Surety's authorized representative.
STATE OF MICHIGAN

County of ____________________________, ss.

_______________________________, being duly sworn, deposes and says:

That ________________________________ is the (contractor) (subcontractor) for an improvement to the following described real property situated in County, Michigan, described as follows:

______________________________

______________________________

______________________________

______________________________

(Insert legal description of property)

That the following is a statement of each subcontractor and supplier and laborer with whom the (contractor) (subcontractor) has (contracted) (subcontracted) for performance under the contract with the owner or lessee thereof, and that the amounts due to the persons as of the date hereof are correctly and fully set forth opposite their names, as follows:

<table>
<thead>
<tr>
<th>Name of subcontractor, supplier, or laborer</th>
<th>Type of improvement furnished</th>
<th>Total contract price</th>
<th>Amount already paid</th>
<th>Amount currently owing</th>
<th>Accrued fringe benefits contributions (if applicable)</th>
<th>Balance to complete</th>
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That the contractor has not procured material from, or subcontracted with, any person other than those set forth on the reverse side and owes no money for the improvement other than the sums set forth on the reverse side.

Deponent further says that he or she makes the foregoing statement as the (contractor) (subcontractor) or as __________________________ of the (contractor) (subcontractor) for the purpose of representing to the owner or lessee of the premises described on the reverse side and his or her agents that the property described on the reverse side is free from claims of construction liens, or the possibility of construction liens, except as specifically set forth on the reverse side.

WARNING: AN OWNER OR LESSEE OF THE PROPERTY DESCRIBED ON THE REVERSE SIDE MAY NOT RELY ON THIS SWORN STATEMENT TO AVOID THE CLAIM OF A SUBCONTRACTOR, SUPPLIER, OR LABORER WHO HAS PROVIDED A NOTICE OF FURNISHING TO THE DESIGNEE OR TO THE OWNER OR LESSEE IF THE DESIGNEE IS NOT NAMED OR HAS DIED.

______________________________
Deponent

Subscribed and sworn to before me this__________ day of ________________________________, 20____

_____________________________________
Notary Public

______________________________ County, Michigan

My Commission Expires: ____________________
010018 FULL UNCONDITIONAL WAIVER

My/our contract with ________________________________ to provide

(OTHER CONTRACTING PARTY)

______________________________ for the improvement of the property described as

Elevator Replacement in The Academic Office Building having been fully paid and satisfied, with respect to our rights under the Payment/Lien Bond covering said Project and all of our rights to pursue payment under the Payment/Lien Bond No. issued by <<<<name of prime contractor>>> as principal and <<<<name of payment bond surety>>> as surety, together with any rights, demands, or causes of action we may have against <<<<name of prime contractor>>> or <<<<name of payment bond surety>>> , by signing this waiver, all my/our construction lien rights against such property are hereby waived and released.

______________________________
(Printed Name of Lien Claimant)

______________________________
(Signature of lien claimant)

Signed on: ____________________ Address: ____________________

________________________________

Telephone: ____________________

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

END OF SECTION 010018
**010020 Certificate of Final Completion**

<table>
<thead>
<tr>
<th>Project:</th>
<th>Owner:</th>
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<tbody>
<tr>
<td>Elevator Replacement in the Academic Office Building</td>
<td>Michigan Technological University</td>
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<table>
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<tr>
<th>Project Number:</th>
<th>05-16-02</th>
</tr>
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<tbody>
<tr>
<td>Contract for:</td>
<td>Construction</td>
</tr>
<tr>
<td>Contractor:</td>
<td></td>
</tr>
<tr>
<td>Contract Date:</td>
<td>TBD or Date of Notice to Proceed</td>
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</table>

Substantial Completion Date _______________________
Final Completion Checklist Date _______________________

The Contractor certifies that the Work and all other requirements have been completed in accordance with the Contract for Construction, including, but not limited to:

1. submission and approval of all remaining change order proposals, claims, and Applications for Payment
2. submission of “as-built” plans and specifications, shop drawings, and other record documents
3. completion of all discrepancies: List of Remaining Items noted on the Final Completion Checklist at the time of Substantial Completion:
   a. submission of all final closeout deliverables/document
   b. submission of Guaranty
   c. submission of Consent of Surety for Final Payment
   d. submission of Sworn Statement
   e. submission of Full Unconditional Waiver of Lien

The Contractor further certifies that:
4. no liens have been attached against the Project
5. no suits are pending by reason of Work on the Contract
6. all Workers’ compensation claims are covered by Workers’ Compensation Insurance as required by law
7. all insurance required of the Contractor beyond final payment, if any, is in effect and will not be cancelled or allowed to be expired without notice to the Owner

CERTIFICATE OF FINAL COMPLETION
010020 - 1
08/30/17
8. all public liability claims are adequately covered by insurance and that the Contractor shall save, protect, defend, indemnify, and hold the Owner harmless from and against any and all claims which arise as a direct or indirect result of any transaction, event occurrence, or omission related to performance of the Work contemplated under said Contract

Upon execution below, this project will be considered complete. This consideration does not relieve the Contractor from its post-construction responsibilities, including correction of discrepancies noted during the first year after Substantial Completion, warranty issues, latent defects, and other requirements of the Contract or State law.

Name of Contractor:

Notary Public:

_________________________________________

Personally appeared before me this day of known (or made known) to me to be the_________________________________(title)
of________________________________________(firm), who, being by me duly sworn, subscribed to the forgoing affidavit in my presence.

By: __________________________  Authorized Representative

_______________________________(date)

My Commission Expires:

Owner  Owner Signature  Final Completion Date

End of Section 010020
CONTRACTOR: | CHANGE ORDER No.
---|---
| PROJECT Elevator Replacement in the Academic Office Building
| PROJECT No.: 05-16-02

OWNER: Michigan Technological University | OWNER’S REPRESENTATIVE:
---|---
1400 Townsend Dr., Houghton, MI, 49931 | 

DATE OF ISSUE: | EFFECTIVE DATE:
---|---

The Contractor is hereby directed to make the following changes in the Contract Documents.

**Description:**

**Reason for Change Order:**

**Attachments:** (List documents supporting change and justifying cost and time)

<table>
<thead>
<tr>
<th>CHANGE IN CONTRACT PRICE:</th>
<th>CHANGE IN CONTRACT TIMES:</th>
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<tbody>
<tr>
<td>Original Contract Price: $</td>
<td>Original Contract Times: <em>(calendar days or dates)</em></td>
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<tr>
<td>Net changes from previous C. O.’s No. _____ to _____ $</td>
<td>Net changes from previous C. O.’s No. _____ to _____ <em>(calendar days)</em></td>
</tr>
<tr>
<td>Contract Price Prior to this Change Order: $</td>
<td>Contract Times prior to this Change Order: <em>(calendar days or dates)</em></td>
</tr>
<tr>
<td>Net Increase (decrease) of this Change Order: $</td>
<td>Net Increase (decrease) of this Change Order: <em>(calendar days)</em></td>
</tr>
<tr>
<td>Contract Price with all Approved Change Orders: $</td>
<td>Contract Times with all Approved Change Orders: <em>(calendar days or dates)</em></td>
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</tbody>
</table>

RECOMMENDED: (Owner’s Representative) By: Date:

APPROVED: (Owner): Michigan Tech University By: Date:

ACCEPTED: (Contractor) By: Date:

REVIEWED: (Funding Agency) By: Date:
PART 1 GENERAL

1.1 PROJECT011000 SUMMARY OF WORK
   A. Project Name: Academic Office Building – Elevator Replacement
   B. Owner's Name: Michigan Technological University.

1.2 CONTRACT DESCRIPTION
   A. A single prime contract based on a Stipulated Price.

1.3 DESCRIPTION OF WORK
   A. Perform all work to replace existing elevator in the Academic Office Building with a new passenger elevator as specified herein.
   B. Elevator is to be installed in accordance with State of Michigan elevator standards and be approved by the state for use.
   C. Remove the existing elevator in the Academic Office Building. This includes the demolition and complete removal of the existing elevator, motor, mechanisms, controls, doors and accessories.
   D. Install a new and complete passenger package, including but not limited to the following:
      1. Control Drives
      2. Microprocessor Controls.
      3. Power supply
      4. Cable
      5. Braking Devices
      6. Hydraulic Lifts, pumps and motors
      7. Door operators
      8. Car operating panels
      9. Landing push buttons
     10. Signal and Service elevator location devices
   E. Provide all required barricades, warning signs as required for safe work area.
   F. Protect all adjacent wall, ceiling and floor finishes. Clean the work area at the end of each work day.
   G. Restore all public space wall finishes to “as new” condition.
   H. All unused and obsolete equipment is to be removed and properly disposed.
1.5 **ITEMS TO BE SALVAGED BY CONTRACTOR** – None

1.6 **WORK BY OWNER**
   A. Owner will provide a power panel as specified by Contractor adjacent to the elevator
   B. Currently there is no elevator equipment room on the ground floor. After consultation with successful contractor, Owner will build out an elevator equipment room (east or west of elevator) on the ground floor if necessary.

1.5 **OWNER OCCUPANCY**
   A. Michigan Tech will occupy the adjacent areas during the entire construction period.
   B. Cooperate with Michigan Tech to minimize conflict and to facilitate Michigan Tech’s operations.
   C. Time Restrictions: None

1.6 **CONTRACTOR USE OF SITE AND PREMISES**
   A. Construction Operations: Limited to actual construction area. Work in adjacent areas will be only as necessary for the project, and must be coordinate with Michigan Tech’s project manager.
   B. Arrange use of site and premises to:
      1. Limit use of the Corridor outside the work area.
      2. Keep all areas outside of the construction area clean and protect existing finishes in all areas. Contractor will be responsible for damages to these areas caused by construction activities.
      3. Parking is limited, and parking permits will be required at the site (there will not be a charge for the permits). Limit the amount of vehicles and trailers to the extent possible, and coordinate with the Michigan Tech Project Manager.
   C. Provide access to and from site as required by law and by Michigan Tech:
      1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
      2. Do not obstruct roadways, sidewalks, or other public ways without permit
      3. **Tobacco Free site:** The entire site is tobacco free. See the Michigan Tech website for specific details.
   E. Utility Outages and Shutdown:
      1. Limit disruption of utility services to hours the building is unoccupied.
      2. Prevent accidental disruption of utility services to other facilities.

1.7 **WORK SEQUENCE**
   A. Coordinate system tie-ins, service interruptions, communication system tests and signal tests with Michigan Tech Public Safety and Police Services
   B. Coordinate elevator delivery with demolition activities to minimize down times. Complete removal
MICHIGAN TECHNOLOGICAL UNIVERSITY
ACADEMIC OFFICE BUILDING
ELEVATOR REPLACEMENT
05-16-02

and installation in a 5 week period.

END OF SECTION 011000
013300 SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

1.2 DEFINITIONS
A. Action Submittals: Written and graphic information and physical samples that require Michigan Tech’s responsive action.

B. Informational Submittals: Written and graphic information and physical samples that do not require Michigan Tech’s responsive action. Submittals may be rejected for not complying with requirements.

1.3 ACTION SUBMITTALS
A. Prior to ordering materials and construction, provide an Action Submittal for items specified throughout the contract documents that include the phrase ‘as approved by Michigan Tech,’ if the exact item as specified cannot be obtained and a similar item must be provided. This is not intended to be a substitution procedure, substitutions must follow requirements of section 012500.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS
A. Electronic copies of digital data files of the specified items can be provided by Michigan Tech for Contractor’s use in preparing submittals.

B. Processing Time: Provide submittals within one week after award of contract to insure sufficient lead time for materials in time to meet the construction schedule. Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Michigan Tech’s receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 7 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Michigan Tech will advise Contractor when a submittal being processed must be delayed for coordination.
2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
3. Resubmittal Review: Allow 7 days for review of each resubmittal.

C. Electronic Submittals (preferred method of transmittal): Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
2. Name file with submittal number or other unique identifier, including revision identifier.
   a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
3. Provide means for insertion to permanently record Contractor’s review and approval markings and action taken by Michigan Tech.
Containing the following information:

1. Project name.
2. Date.
3. Name of General Contractor.
4. Name of firm or entity that prepared submittal.
5. Names of subcontractor, manufacturer, and supplier.
6. Category and type of submittal.
7. Submittal purpose and description.
8. Specification Section number and title.
   
   1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
   
   i. Specification paragraph number or drawing designation and generic name for each of multiple items.
   
   j. Drawing number and detail references, as appropriate.
   
   k. Location(s) where product is to be installed, as appropriate.
   
   l. Related physical samples submitted directly.
   
   m. Indication of full or partial submittal.
   
   n. Transmittal number, numbered consecutively.
   
   o. Submittal and transmittal distribution record.
   
   p. Other necessary identification.
   
   q. Remarks.
   
   r. Signature of transmitter.

D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.

1. Indicate name of firm or entity that prepared each submittal on label or title block.
2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor’s review and approval markings and action taken by Michigan Tech.
3. Include the following information for processing and recording action taken:

   a. Project name.
   
   b. Date.
   
   c. Name of General Contractor.
   
   d. Name of firm or entity that prepared submittal.
   
   e. Names of subcontractor, manufacturer, and supplier.
   
   f. Category and type of submittal.
   
   g. Submittal purpose and description.
   
   h. Specification Section number and title.
      
      1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
      
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      n. Transmittal number, numbered consecutively.
      
      o. Submittal and transmittal distribution record.
      
      p. Other necessary identification.
      
      q. Remarks.
r. Signature of transmitter

4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Michigan Tech observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.

E. Options: Identify options requiring selection by Michigan Tech.

F. Deviations: Identify deviations from the Contract Documents on submittals.

G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
   1. Note date and content of previous submittal.
   2. Note date and content of revision in label or title block and clearly indicate extent of revision.
   3. Resubmit submittals until they are marked with approval notation from Architect’s action stamp.

H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Michigan Tech’s action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements:
   1. Submit electronic submittals via email as PDF electronic files.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
   1. Mark each copy of each submittal to show which products and options are applicable.
   2. Include the following information, as applicable:
      a. Manufacturer’s catalog cuts.
      b. Manufacturer’s product specifications.
      c. Standard color charts.
      d. Statement of compliance with specified referenced standards.
      e. Testing by recognized testing agency.
      f. Application of testing agency labels and seals.
      g. Notation of coordination requirements.
      h. Availability and delivery time information.
   3. Submit Product Data before or concurrent with Samples.
   4. Submit Product Data in the following format:
      a. PDF electronic file.
C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.

1. Preparation: Fully illustrate requirements in the Contract Documents.
2. Include the following information, as applicable:
   a. Identification of products.
   b. Schedules.
   c. Compliance with specified standards.
   d. Notation of coordination requirements.
   e. Notation of dimensions established by field measurement.
   f. Relationship and attachment to adjoining construction clearly indicated.
   g. Seal and signature of professional engineer if specified.

3. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches.
4. Submit Shop Drawings in the following format:
   a. PDF electronic file.
   b. Four opaque (bond) copies of each submittal. Michigan Tech will return two copy(ies).

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
2. Identification: Attach label on unexposed side of Samples that includes the following:
   a. Generic description of Sample.
   b. Product name and name of manufacturer.
   c. Sample source.
   d. Number and title of applicable Specification Section.

3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
   a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
   b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.

5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
   a. Number of Samples: Submit one full set(s) of available choices where color, pattern,
texture, or similar characteristics are required to be selected from manufacturer's product line. Michigan Tech will return submittal with options selected.

6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

   a. Number of Samples: Submit one set of Samples. Michigan Tech will retain.
   1) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

   E. Application for Payment and Schedule of Values: Comply with requirements specified in Section 010001 Payment Procedures.

   F. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017000 Closeout Procedures.

   G. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

   H. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

   I. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

   J. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

2.2 DELEGATED-DESIGN SERVICES

   A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

      1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Michigan Tech.

   B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Michigan Technological University.

B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017000 Closeout Procedures.

3.2 Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.3 MICHIGAN TECH'S ACTION

A. General: Michigan Tech will not review submittals that do not bear Contractor's approval stamp and will return them without action.

B. Action Submittals: Michigan Tech will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

C. Informational Submittals: Michigan Tech will review each submittal and will not return it, or will return it if it does not comply with requirements. Michigan Tech will forward each submittal to appropriate party.

D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

END OF SECTION 013300
SECTION 142400 - HYDRAULIC ELEVATORS

PART 1 - GENERAL

1.1 SUMMARY
   A. Section includes hydraulic passenger elevators.

1.2 DEFINITIONS
   A. Definitions in ASME A17.1/CSA B44 apply to work of this Section.
   B. Service Elevator: A passenger elevator that is also used to carry freight.

1.3 ACTION SUBMITTALS
   A. Product Data: Include capacities, sizes, performances, operations, safety features, finishes, and similar information. Include product data for car enclosures; hoistway entrances; and operation, control, and signal systems.
   B. Shop Drawings:
      1. Include plans, elevations, sections, and large-scale details indicating service at each landing; machine room layout; coordination with building structure; relationships with other construction; and locations of equipment.
      2. Include large-scale layout of car-control station and standby-power operation control panel.
      3. Indicate maximum dynamic and static loads imposed on building structure at points of support as well as maximum and average power demands.
   C. Samples for Initial Selection: For finishes involving color selection.
   D. Samples for Verification: For exposed car, hoistway door and frame, and signal equipment finishes, 3-inch-square Samples of sheet materials and 4-inch lengths of running trim members.

1.4 INFORMATIONAL SUBMITTALS
   A. Qualification Data: For Installer.
   B. Manufacturer Certificates: Signed by elevator manufacturer, certifying that hoistway, pit, and machine room layout and dimensions, as shown on Drawings, and electrical service including standby-power generator, as shown and specified, are adequate for elevator system being provided.
   C. Sample Warranty: For special warranty.
1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For elevators to include in emergency, operation, and maintenance manuals.

1. Submit manufacturer's/installer's standard operation and maintenance manual, in accordance with ASME A17.1/CSA B44 including diagnostic and repair information available to manufacturer's and Installer's maintenance personnel.

B. Inspection and Acceptance Certificates and Operating Permits: As required by authorities having jurisdiction, including the State of Michigan, for normal, unrestricted elevator use.

C. One Year Continuing Maintenance: Provide a standard, one-year maintenance agreement, starting on date of elevator commissioning and State Acceptance. State services, obligations, conditions, and terms for agreement period and for future renewal options.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Elevator manufacturer or an authorized representative who is trained and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle materials, components and equipment in manufacturer's protective packaging. Store materials, components, and equipment off of ground, under cover, and in a dry location. Interior storage area will not be provided by owner. An unprotected lay-down area will be provided in an adjacent parking lot.

1.8 COORDINATION

A. Coordinate installation of sleeves, block outs, elevator equipment with integral anchors, and other items that are embedded in concrete or masonry for elevator equipment. Furnish templates, sleeves, elevator equipment with integral anchors, and installation instructions and deliver to Project site in time for installation.

B. Coordinate locations and dimensions of other work specified in other Sections that relates to hydraulic elevators, including pit ladders; sumps and floor drains in pits; entrance subsills; electrical service; and electrical outlets, lights, and switches in hoistways, pits, and machine rooms.

1.9 WARRANTY

A. Manufacturer's Special Warranty: Manufacturer agrees to repair, restore, or replace elevator work that fails in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive
maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.

2. Warranty Period: 5 year(s) from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 HYDRAULIC ELEVATOR MANUFACTURERS

A. Source Limitations: Obtain elevators from single manufacturer.

1. Major elevator components, including pump-and-tank units, plunger-cylinder assemblies, controllers, signal fixtures, door operators, car frames, cars, and entrances, shall be manufactured by single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with ASME A17.1/CSA B44.


2.3 ELEVATORS

A. Elevator System, General: Manufacturer's standard elevator systems. Unless otherwise indicated, manufacturers' standard components shall be used, as included in standard elevator systems and as required for complete system.

B. Elevator Description:

1. Type: Holeless, beside-the-car, telescoping, single cylinder.
3. Rated Speed: 75 or 80 fpm.
5. Auxiliary Operations:
   a. Battery-powered lowering.
   b. Automatic operation of lights and ventilation fans.

7. Car Enclosures:
   a. The elevator is to be custom sized and constructed to fit within an existing shaft. The existing shaft inside width is approximately 93” x 70.5”. The proposal shall include dimensional drawings of the proposed elevator for this shaft.
   b. Elevator shall include a total of 5 stops, three stops with access through front of elevator and two stops with access through back of elevator.
   c. Car Fixtures: Satin stainless steel, No. 4 finish.
   d. Side and Rear Wall Panels: Plastic laminate.
   e. Reveals: Satin stainless steel, No. 4 finish.

08/30/17
f. Door Faces (Interior): Satin stainless steel, No. 4 finish.
g. Door Sills: Nickel silver.
h. Ceiling: Luminous ceiling.
i. Handrails: 1-1/2 inches round satin stainless steel, No. 4 finish, at sides of car.
j. Floor: Manufacturer's standard carpet.

8. Hoistway Entrances:
   a. Type: Single-speed side sliding.
   b. Frames: Satin stainless steel, No. 4 finish.
   c. Doors and Transoms: Satin stainless steel, No. 4 finish.
   d. Sills: Nickel silver.

10. Additional Requirements:
    a. Provide inspection certificate in each car, mounted under acrylic cover with frame
       made from satin stainless steel, No. 4 finish.

2.4 SYSTEMS AND COMPONENTS

A. Pump Units: Positive-displacement type with a maximum of 10 percent variation between no
   load and full load and with minimum pulsations.
   1. Pump shall be tank-top-mounted type with fan-cooled, squirrel-cage induction
      motor, and shall be mounted on oil tank with vibration isolation mounts and enclosed in
      prime-painted steel enclosure lined with 1-inch-thick, glass-fiber insulation board.
   2. Motor shall have variable-voltage, variable-frequency control.

B. Hydraulic Silencers: System shall have hydraulic silencer containing pulsation-absorbing
   material in blowout-proof housing at pump unit.

C. Piping: Size, type, and weight of piping as recommended by elevator manufacturer, with
   flexible connectors to minimize sound and vibration transmissions from power unit.
   1. Cylinder units shall be connected with dielectric couplings.

D. Hydraulic Fluid: Elevator manufacturer's standard fire-resistant fluid with additives as needed to
   prevent oxidation of fluid, corrosion of cylinder and other components, and other adverse
   effects.

E. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for
   installing guide rails, machinery, and other components of elevator work. Device installation is
   specified in another Section.

F. Protective Cylinder Casing: PVC or HDPE pipe casing complying with
   ASME A17.1/CSA B44, of sufficient size to provide not less than 1-inch clearance from
   cylinder and extending above pit floor. Casing shall have means of monitoring effectiveness to
   comply with ASME A17.1/CSA B44.
G. Corrosion-Protective Filler: A nontoxic, petroleum-based gel formulated for filling the space
between hydraulic cylinder and protective casing. Filler shall be electrically nonconductive,
displace or absorb water, and gel or solidify at temperatures below 60 deg F.

H. Car Frame and Platform: Welded or bolted steel units.

I. Guides: Roller guides. Provide guides at top and bottom of car frame.

2.5 OPERATION SYSTEMS

A. General: Provide manufacturer's standard microprocessor operation system as required to
provide type of operation indicated.

B. Auxiliary Operations:
   1. Single-Car Battery-Powered Lowering: If power fails and car is at a floor, it remains at
      that floor, opens its doors, and shuts down. If car is between floors, it is lowered to a
      preselected floor, opens its doors, and shuts down. If car is below the preselected floor, it
      is lowered to the next lower floor, opens its doors, and shuts down. System includes
      rechargeable battery and automatic recharging system.
   2. Automatic Operation of Lights and Fan: When elevator is stopped and unoccupied with
doors closed, lighting, ventilation fan, and cab displays are de-energized after 5 minutes
and are re-energized before car doors open.

C. Security Features: Security features shall not affect emergency firefighters' service.
   1. Keyswitch Operation: Push buttons are activated and deactivated by security keyswitches
      at car-control stations. Key is removable only in deactivated position.
   2. Car-to-Lobby Feature: Feature, activated by keyswitch at main lobby, that causes car to
      return immediately to lobby and open doors for inspection. On deactivation by keyswitch,
calls registered before keyswitch activation are completed and normal operation is
      resumed.

2.6 DOOR-REOPENING DEVICES

A. Infrared Array: Provide door-reopening device with uniform array of 36 or more
microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of
one or more light beams shall cause doors to stop and reopen.

2.7 CAR ENCLOSURES

A. General: Provide steel-framed car enclosures with nonremovable wall panels, with
removable car roof, access doors, power door operators, and ventilation.
   1. Provide standard railings complying with ASME A17.1/CSA B44 on car tops where
      required by ASME A17.1/CSA B44.

B. Materials and Finishes: Manufacturer's standards, but not less than the following:
1. Subfloor: Exterior, underlayment-grade plywood, not less than 5/8-inch nominal thickness.
2. Floor Finish: Elevator manufacturer's standard level-loop nylon carpet; color as selected by Architect from manufacturer's full range.
3. Plastic-Laminate Wall Panels: Plastic laminate adhesively applied to 1/2-inch fire-retardant-treated particleboard with manufacturer's standard protective edge trim. Panels have a flame-spread index of 25 or less, when tested according to ASTM E 84. Plastic-laminate color, texture, and pattern as selected by Architect from elevator manufacturer's full range.
4. Fabricate car with recesses and cutouts for signal equipment.
5. Fabricate car door frame integrally with front wall of car.
7. Sight Guards: Provide sight guards on car doors.
8. Sills: Extruded or machined metal, with grooved surface, 1/4 inch thick.
9. Luminous Ceiling: LED light fixtures and ceiling panels of translucent acrylic or other permanent rigid plastic.
10. Light Fixture Efficiency: Not less than 100 lumens/W.
11. Ventilation Fan Efficiency: Not less than 3.0 cfm/W.

2.8 HOISTWAY ENTRANCES

A. Hoistway Entrance Assemblies: Manufacturer's standard horizontal-sliding, door-and-frame hoistway entrances complete with track systems, hardware, sills, and accessories. Frame size and profile shall accommodate hoistway wall construction.
   1. Where gypsum board wall construction is indicated, frames shall be self-supporting with reinforced head sections.

B. Fire-Rated Hoistway Entrance Assemblies: Door-and-frame assemblies shall comply with NFPA 80 and be listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing at as close-to-neutral pressure as possible according to NFPA 252 or UL 10B.
   1. Fire-Protection Rating: 1 hour.

C. Materials and Fabrication: Manufacturer's standards, but not less than the following:
   2. Stainless-Steel Doors and Transoms: Flush, hollow-metal construction; fabricated from stainless-steel sheet.
   3. Sills: Extruded or machined metal, with grooved surface, 1/4 inch thick.
   4. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M.

2.9 SIGNAL EQUIPMENT

A. General: Provide hall-call and car-call buttons that light when activated and remain lit until call has been fulfilled. Provide vandal-resistant buttons and lighted elements illuminated with LEDs.
B. Car-Control Stations: Provide manufacturer's standard semirecessed car-control stations. Mount in return panel adjacent to car door unless otherwise indicated.

1. Mark buttons and switches for required use or function. Use both tactile symbols and Braille.
2. Provide "No Smoking" sign matching car-control station, either integral with car-control station or mounted adjacent to it, with text and graphics as required by authorities having jurisdiction.

C. Swing-Return Car-Control Stations: Provide car-control stations mounted on rear of hinged return panel adjacent to car door and with buttons, switches, controls, and indicator lights projecting through return panel but substantially flush with face of return panel.

1. Mark buttons and switches for function. Use both tactile symbols and Braille.
2. Provide "No Smoking" sign matching car-control station, either integral with car-control station or mounted adjacent to it, with text and graphics as required by authorities having jurisdiction.

D. Emergency Communication System: Two-way voice communication system, with visible signal, which dials preprogrammed number of monitoring station and does not require handset use. System is contained in flush-mounted cabinet, with identification, instructions for use, and battery backup power supply.

E. Firefighters' Two-Way Telephone Communication Service: Provide flush-mounted cabinet in each car and required conductors in traveling cable for firefighters' two-way telephone communication service.

F. Car Position Indicator: Provide digital-type car position indicator, located above car door or above car-control station. Also, provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served. Include travel direction arrows if not provided in car-control station.

G. Hall Push-Button Stations: Provide one hall push-button station at each landing.

1. Provide manufacturer's standard wall-mounted units.
2. Equip units with buttons for calling elevator and for indicating applicable direction of travel.

H. Hall Lanterns: Units with illuminated arrows; however, provide single arrow at terminal landings. Provide the following:

1. Manufacturer's standard wall-mounted units, for mounting above entrance frames.

I. Hall Annunciator: With each hall lantern, provide audible signals indicating car arrival and direction of travel. Signals sound once for up and twice for down.

J. Hall Position Indicators: Provide digital-display-type position indicators, located above each hoistway entrance at ground floor.

1. Integrate ground-floor hall lanterns with hall position indicators.
K. Standby-Power Elevator Selector Switches: Provide switches, as required by ASME A17.1/CSA B44, where indicated. Adjacent to switches, provide illuminated signal that indicates when normal power supply has failed. For each elevator, provide illuminated signals that indicate when they are operational and when they are at the designated emergency return level with doors open.

L. Fire-Command-Center Annunciator Panel: Provide panel containing illuminated position indicators for each elevator, clearly labeled with elevator designation; include illuminated signal that indicates when elevator is operational and when it is at the designated emergency return level with doors open. Provide standby-power elevator selector switch(es), as required by ASME A17.1/CSA B44, adjacent to position indicators. Provide illuminated signal that indicates when normal power supply has failed.

M. Emergency Pictorial Signs: Fabricate from materials matching hall push-button stations, with text and graphics as required by authorities having jurisdiction, indicating that in case of fire, elevators are out of service and exits should be used instead. Provide one sign at each hall push-button station unless otherwise indicated.

2.10 FINISH MATERIALS

A. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304.
   1. Metal surface is satin polished after texturing.

B. Stainless-Steel Bars: ASTM A 276, Type 304.

C. Stainless-Steel Tubing: ASTM A 554, Grade MT 304.


E. Plastic Laminate: High-pressure type complying with NEMA LD 3, Type HGS for flat applications.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine elevator areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work. Verify critical dimensions and examine supporting structure and other conditions under which elevator work is to be installed.

B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

C. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 INSTALLATION

A. Install cylinder plumb and accurately centered for elevator car position and travel. Anchor securely in place, supported at pit floor and braced at intervals as needed to maintain alignment. Anchor cylinder guides at spacing needed to maintain alignment and avoid overstressing guides.

B. Welded Construction: Provide welded connections for installing elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS workmanship and welding operator qualification standards.

C. Sound Isolation: Mount rotating and vibrating equipment on vibration-isolating mounts to minimize vibration transmission to structure and structure-borne noise due to elevator system.

D. Install piping above the floor, where possible. Install underground piping in casing.

   1. Excavate for piping and backfill encased piping according to applicable requirements in Section 312000 "Earth Moving."

E. Lubricate operating parts of systems as recommended by manufacturers.

F. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with car. Where possible, delay installation of sills and frames until car is operable in shaft. Reduce clearances to minimum, safe, workable dimension at each landing.

G. Leveling Tolerance: 1/4 inch, up or down, regardless of load and travel direction.

H. Set sills flush with finished floor surface at landing. Fill space under sill solidly with nonshrink, nonmetallic grout.

I. Locate hall signal equipment for elevators as follows unless otherwise indicated:

   1. For groups of elevators, locate hall push-button stations between two elevators at center of group or at location most convenient for approaching passengers.
   2. Place hall lanterns either above or beside each hoistway entrance.
   3. Mount hall lanterns at a minimum of 72 inches above finished floor.

3.3 FIELD QUALITY CONTROL

A. Acceptance Testing: On completion of elevator installation and before permitting elevator use (either temporary or permanent), perform acceptance tests as required and recommended by ASME A17.1/CSA B44 and by governing regulations and agencies.

B. Advise Owner, Architect, and authorities having jurisdiction in advance of dates and times that tests are to be performed on elevators.
3.4 PROTECTION

A. Temporary Use: Comply with the following requirements for elevator used for construction purposes:

1. Provide car with temporary enclosure, either within finished car or in place of finished car, to protect finishes from damage.
2. Provide strippable protective film on entrance and car doors and frames.
3. Provide padded wood bumpers on entrance door frames covering jambs and frame faces.
4. Provide other protective coverings, barriers, devices, signs, and procedures as needed to protect elevator and elevator equipment.
5. Do not load elevators beyond their rated weight capacity.
6. Engage elevator Installer to provide full maintenance service. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleanup, and adjustment as necessary for proper elevator operation at rated speed and capacity. Provide parts and supplies same as those used in the manufacture and installation of original equipment.
7. Engage elevator Installer to restore damaged work, if any, so no evidence remains of correction. Return items that cannot be refinished in the field to the shop, make required repairs and refinish entire unit, or provide new units as required.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to operate elevator(s).

B. Check operation of each elevator with Owner's personnel present before date of Substantial Completion. Determine that operation systems and devices are functioning properly.

C. Include permitting and final approval by the State of Michigan.

END OF SECTION 142400
REQUIREMENTS OF THE PREVAILING WAGES ON STATE PROJECTS ACT, PUBLIC ACT 166 OF 1965

The State of Michigan determines prevailing rates pursuant to the Prevailing Wages on State Projects Act, Public Act 166 of 1965, as amended. The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to workers on construction projects for which the state or a school district is the contracting agent and which is financed or financially supported by the state. By law, prevailing rates are compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. The official prevailing rate schedule provides an hourly rate which includes wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. Prevailing wage is satisfied when wages plus fringe benefits paid to a worker are equal to or greater than the required rate.

State of Michigan responsibilities under the law:
- The department establishes the prevailing rate for each classification of construction mechanic requested by a contracting agent prior to contracts being let out for bid on a state project.

Contracting agent responsibilities under the law:
- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a re-determination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, must be obtained prior to contracts being let out for bid on a state project.
- The contracting agent, by written notice to the contractor and the sureties of the contractor known to the contracting agent, may terminate the contractor's right to proceed with that part of the contract, for which less than the prevailing rates have been or will be paid, and may proceed to complete the contract by separate agreement with another contractor or otherwise, and the original contractor and his sureties shall be liable to the contracting agent for any excess costs occasioned thereby.

Contractor responsibilities under the law:
- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic. This record shall be available for reasonable inspection by the contracting agent or the department.
- Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- A construction mechanic shall only be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

Enforcement:
A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the State of Michigan. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with Section 5 of Act 166, the investigation will be concluded and a referral may be made to the local prosecuting attorney.
**General Information Regarding Fringe Benefits**

Certain fringe benefits may be credited toward the payment of the Prevailing Wage Rate:
- If a fringe benefit is paid directly to a construction mechanic
- If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Calculation</th>
<th>Hourly Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacation</td>
<td>40 hours X $14.00 per hour = $560/2080 =</td>
<td>$.27</td>
</tr>
<tr>
<td>Dental insurance</td>
<td>$31.07 monthly premium X 12 mos. = $372.84/2080 =</td>
<td>$.18</td>
</tr>
<tr>
<td>Vision insurance</td>
<td>$5.38 monthly premium X 12 mos. = $64.56/2080 =</td>
<td>$.03</td>
</tr>
<tr>
<td>Health insurance</td>
<td>$230.00 monthly premium X 12 mos. = $2,760.00/2080 =</td>
<td>$1.33</td>
</tr>
<tr>
<td>Life insurance</td>
<td>$27.04 monthly premium X 12 mos. = $324.48/2080 =</td>
<td>$.16</td>
</tr>
<tr>
<td>Tuition</td>
<td>$500.00 annual cost/2080 =</td>
<td>$.24</td>
</tr>
<tr>
<td>Bonus</td>
<td>4 quarterly bonus/year x $250 = $1000.00/2080 =</td>
<td>$.48</td>
</tr>
<tr>
<td>401k Employer Contribution</td>
<td>$2000.00 total annual contribution/2080 =</td>
<td>$.96</td>
</tr>
</tbody>
</table>

Total Hourly Credit: $3.65

Other examples of the types of fringe benefits allowed:
- Sick pay
- Holiday pay
- Accidental Death & Dismemberment insurance premiums

The following are examples of items that will not be credited toward the payment of the Prevailing Wage Rate:
- Legally required payments, such as:
  - Unemployment Insurance payments
  - Workers’ Compensation Insurance payments
  - FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
  - Clothing allowance or reimbursement
  - Uniform allowance or reimbursement
  - Gas allowance or reimbursement
  - Travel time or payment
  - Meals or lodging allowance or reimbursement
  - Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
  - Industry advancement funds
  - Financial or material loans
OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

1. Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

<table>
<thead>
<tr>
<th></th>
<th>Monday thru Friday</th>
<th>Saturday</th>
<th>Sunday &amp; Holidays</th>
<th>Four 10s</th>
</tr>
</thead>
<tbody>
<tr>
<td>First 8 Hours</td>
<td></td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>9th Hour</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10th Hour</td>
<td>2</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Over 10 hours</td>
<td>3</td>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Overtime for Monday thru Friday after 8 hours:
the 1st character is for time worked in the 9th hour (8.1 - 9 hours)
the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)
the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:
the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)
the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)
the 6th character is for time worked in the 10th hour (9.1 - 10 hours)
the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays
The 8th character is for time worked on Sunday or on a holiday

Four Ten Hour Days
The 9th character indicates if an optional 4-day 10-hour per day workweek can be worked between Monday and Friday without paying overtime after 8 hours worked, unless otherwise noted in the rate schedule. To utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.

2. Overtime Indicators Used in the Overtime Provision:
H - means TIME AND ONE-HALF due
X - means TIME AND ONE-HALF due after 40 HOURS worked
D - means DOUBLE PAY due
Y - means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked
N - means NO an optional 4-day 10-hour per day workweek cannot be worked without paying overtime after 8 hours worked

3. EXAMPLES:
HHHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (characters 1 - 3); for all hours worked on Saturday, 1½ rate is due (characters 4 - 7). Work done on Sundays or holidays must be paid double time (character 8). The N (character 9) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHHHDY - This example shows that the 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (characters 1-3); for hours worked on Saturday, 1½ rate is due (characters 4 – 7). Work done on Sundays or holidays must be paid double time (character 8). The Y (character 9) indicates that 4 ten-hour days is an acceptable alternative workweek.
ENGINEERS - CLASSES OF EQUIPMENT LIST

### UNDERGROUND ENGINEERS

**CLASS I**
Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8’ digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver, Hydro Excavator.

**CLASS II**
Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6” discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8’ digging capacity and smaller), Vac Truck.

**CLASS III**
Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, ½ yard or larger), Elevator (other than passenger), Maintenance Man, Mechanic Helper, Pump (2 or more 4” up to 6” discharge, gas or diesel powered, excluding submersible pump), Pumcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

**CLASS IV**
Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4”, exclude submersible), Pumps (2 or more up to 4” discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6’ wide or over), Trencher (service) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.

### HAZARDOUS WASTE ABATEMENT ENGINEERS

**CLASS I**
Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Hydro Excavator, Loader, Pug Mill, Pumcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vectors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.

**CLASS II**
Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, Water Wagon and Welding Machine.
Carpenter Craft Jurisdiction

Michigan recognizes the Carpenters for any and all work related to weatherization that has historically been the work of the Carpenter. This work shall include, but not be limited to: all work defined under the Federal Weatherization Assistance Program.

The jurisdiction of Carpenters, as to all work that has historically and traditionally been performed consisting of the milling, fashioning, joining, assembling, erecting, fastening or dismantling of all materials of wood, plastic, metal, fiber, cork, or composition and all other substitute materials, as well as the handling, cleaning, erecting, installing and dismantling of all machinery, equipment and all materials used by Carpenters.

The jurisdiction, therefore, extends over the following divisions and subdivisions of the trade: Carpenters and Joiners, Millwrights, Pile Drivers, Bridge, Dock and Wharf Carpenters, Underpinners, Timbermen, and Core-drillers, Shipwrights, Boat Builders, Ship-hand, Stair-Builders, Millmen, Wood and Resilient Floor Decorators, Floor Finishers, Carpet-layers, Shinglers, Siders, Insulators, Acoustic and Drywall Applicators, Sharers and House Movers, Loggers, Lumber and Sawmill Workers, Reed and Rattan Workers, Shingle Weavers, Casket and Coffin Makers, Railroad Carpenters and Car Builders, regardless of material used and all those engaged in the operation of woodworking or other machinery required in fashioning, milling or manufacturing of products used in the trade, and the handling, erecting and installing materials on any of the above divisions or sub-divisions, burning, welding and rigging incidental to the trade. When the term “Carpenter and Joiner” is used, it shall mean all the subdivisions of the trade. The trade autonomy of Carpenters therefore extends over the divisions and subdivisions of the trade, which are set forth as follows:

(a) The framing, erecting and prefabrication of roofs, partitions, floors and other parts of buildings of wood, metal, plastic or other substitutes; application of all metal flashing used for hips, valleys and chimneys; the erection of Stran Steel section or its equal. The building and setting of all forms and centers for brick and masonry. The fabrication and erection of all forms for concrete and decking, the dismantling of same (as per International Agreement) when they are to be re-used on the job or stored for re-use. The cutting and handling of all falsework for fireproofing and slabs. Where power is used in the setting or dismantling of forms, all signaling and handling shall be done by carpenters. The setting of templates for anchor bolts for structural members and for machinery, and the placing, leveling and bracing of these bolts. All framing in connection with the setting or metal columns. The setting of all bulkheads, footing forms and the setting of and fabrication of, screeds and stakes for concrete and mastic floors where the screed is notched or fitted, or made up of more than one member. The making of forms for concrete block, bulkheads, figures, posts, rails, balusters and ornaments, etc.

(b) The handling and erecting of rough material and drywall, the handling, assembly, setting and leveling of all fixtures, display cases, all furniture such as tables, chairs, desks, coat racks, etc., all de-mountable or moveable partitions such as Von wall, E Wall, Steel Case, Herman Miller, Haworth, American Seating, Westinghouse, Lazy Boy, rosewood, etc. All rebuilding, remodeling and setting up of all kinds of partitions, finished lumber, metal and plastic trim to be erected by Carpenters shall be handled from the truck or vehicle delivering same to the job by Carpenters.
Carpenter Craft Jurisdiction

(c) The building and moving of all scaffolding runways and staging where carpenters' tools are used, the building from the ground up of all scaffolds over fourteen (14) feet in height including metal and specially designed scaffolding. The building and construction of all hoists and derricks made of wood; the making of mortar boards, boxes, trestles, all shoring, razing and moving of buildings. Lift type trucks are to be considered a tool of the trade. Metal siding and metal roofing fall within the scope of jurisdiction for the carpenters.

(d) The cutting or framing and fireproofing of the openings for pipes, conduits, ducts, etc., where they pass through floors, partitions, walls, roofs or fixtures composed in whole or in part of wood. The laying out of making and installation of all inserts and sleeves for pipes, ducts, etc., where carpenters' tools and knowledge are required. The making and installing of all wooden meter boards, crippling and backing for fixtures. The welding of studs and other fastenings to receive material being applied by carpenters.

(e) The installation of all grounds, furring or stripping, ceilings and sidewalks, application of all types of shingling and siding, etc.

(f) The installation of all interior and exterior trim or finish of wood, aluminum, kalamein, hollow or extruded metal, plastic, doors, transoms, thresholds, mullions and windows. The setting of jambs, bucks, window frames of wood or metal where braces or wedges are used. The installation of all wood, metal or other substitutes of casing, molding, chair rail, wainscoting, china closets, base of mop boards, wardrobes, metal partitions as per National Decisions or specific agreements, etc. The complete laying out, fabrication and erection of stairs. The mortising and application of all hardware in connection with our work. The sanding and refinishing of all wood, cork or composition floors to be sanded or scraped, filled, sized and buffed, either by hand or power machines. The assembling and setting of all seats in theaters, halls, churches, schools, auditorium, grandstands and other buildings. All bowling alley work.

(g) The manufacture, fabrication and installation of all screens, storm sash, storm doors and garage doors; the installation of wood, canvas, plastic or metal awnings or eye shades, door shelters, jalousies, etc. The laying of wood, wood block and wood composition in floors.

(h) The installation of all materials used in drywall construction, such as plasterboard, all types of asbestos boards, transite and other composition board. The application of all material which serves as base for acoustic tile, except plaster. All acoustical applications as per National Agreement or specific agreement.

(i) The building and dismantling of all barricades, hand rails, guard rails, partitions and temporary partitions. The erection and dismantling of all temporary housing on construction projects.

(j) The installation of rock wool, cork and other insulation material used for sound or weatherproofing. The removal of caulking and placing of staff bead and brick mold and all Oakum caulking, substitutes, etc., and all caulking in connection with carpentry work.

(k) The installation of all chalk boards marker boards.
Carpenter Craft Jurisdiction

(l) The operation of all hand operated winches used to raise wooden structures.

(m) The erection of porcelain enameled panels and siding.

(n) The unloading and distribution of all furnished, prefabricated and built-up sections such as door bucks, window frames, cupboards, cabinets, store fixtures, counters and show cases or comparably finished or prefabricated materials, to the job sites or points of installation as used in the construction, alteration and remodeling industry.

(o) The handling of doors, metal, wood or composite, partitions and other finished bulk materials used for trim from the point of delivery.

(p) All processing of these materials and handling after processing.

(q) The making up of panels and fitting them into walls, all bracing and securing, all removal of panels from the casting including all braces, whalers, hairpins, etc.

(r) The handling and setting of all metal pans and sections from the stock piles of reasonable distance as required by job needs shall be performed by carpenters. The stripping of such metal pans, panels or sections is to be performed by carpenters.

(s) The sharpening of all carpenter hand or power tools, or those used by carpenters.

(t) The layout, fabrication, assembling of and erection and dismantling of all displays made of wood, metal, plastic, composition board or any substitute material; the covering of same with any type of material, the crating and un-crating, the handling from the point of unloading and back to the point of loading of all displays and other materials or components.

(u) The same shall apply to all other necessary component parts used for display purposes such as turntables, platforms, identification towers and fixtures, regardless of how constructed, assembled or erected or dismantled.

(v) The make-up, handling, cutting and sewing of all materials used in buntings, flags, banners, decorative paper, fabrics and similar materials used in the display decorative industry for draperies and back drops. The decorative framing of trucks, trailers and autos used as floats or moving displays. The slatting of walls to hand fabrics and other decorative materials, drilling of all holes to accommodate such installations. Setting up and removal of booths constructed of steel or aluminum tubing as stanchions, railings, etc., handling and placing of furniture, appliances, etc., which are being used to complete the booth at the request of the exhibitor. Fabricating and application of leather, plastic and other like materials used for covering of booths. The handling of all materials, fabricating of same. The loading and unloading, erecting and assembling at the exhibit of show area, also in or out of storage when used in booth decorations.
CARPENTER CRAFT JURISDICTION

(w) A display shall be construed as any exhibit or medium of advertising, open to private or public showing, which is constructed of wood, metal, plastic or any other substitute to accomplish the objectives of advertising or displaying.

(x) Handling, fitting, draping, measuring and installation of fixtures and other hardwares for draperies, all manner of making, measuring, repairing, sizing, hanging and installation of necessary fixtures and hardware for shades and Venetian blinds.

(y) Work consisting of cutting and/or forming of all materials in preparation for installing of floors, walls and ceilings; the installation of all resilient floor and base; wall and ceiling materials to include cork, linoleum, prefabricated, laminated, rubber, asphalt, vinyl, metal, plastic, seamless floors and all other similar materials in sheet, interlocking liquid or tile form; the installation of all artificial turf, the installation, cutting and/or fitting of carpets; installation of padding, matting, linen crash and all preformed resilient floor coverings; the fitting of all devices for the attachment of carpet and other floor, wall and ceiling coverings; track sewing of carpets, drilling of holes for sockets and pins, putting in dowels and slats; and all metal trimmings used; the installation of all underlayments, sealants in preparation of floors, walls and ceilings, the unloading and handling of all materials to be installed and the removal of all materials in preparing floors when contracted for by the employer, shall be done only by employees covered under this Agreement.

(z) The installation of all sink-tops and cabinets, to include all metal trim and covering for same. All cork, linoleum, congo-wall, linewall, veos tile, plexiglass, vinawall tile, composition tile, plastic tile, aluminum tile and rubber in sheets or tile form and the application thereof. All bolta-wall and bolta-wall tile and similar products.

(aa) The handling and placing of all pictures and frames and the assembly of bed frames and accessories. The hanging and placing of all signage.

(bb) The installation of all framework partitions and trim materials for toilets and bathrooms made of wood, metal, plastics or composition materials; fastening of all wooden, plastic or composition cleats to iron or any other material for accessories.

(cc) The erection of cooling towers and tanks.

(dd) The setting, lining, leveling and bracing of all embedded plates, rails and angles. The setting of all stay in place forms.

(ee) Environmental: Clean room, any type of environmental chamber, walk in refrigerated coolers and all refrigerated rooms or buildings.
CARPENTER CRAFT JURISDICTION

PILE DRIVING AND CAISSON DRILLING

(ff) All unloading, handling, signaling and driving of piles, whether wood, steel, pipe, beam pile, composite, concrete or molded in place, wood and steel sheeting, cofferdam work, trestle work, dock work, floating derricks, caisson work, foundation work, bridge work, whether old or new, crib work, pipe line work and submarine work. Cutting of all wood, steel or concrete pile, whether by machine or hand; welding and cutting, peeling, and heading of all wood pile, steel sheeting and wood sheeting. The erecting and dismantling of all pile driving rigs, also derricks whether on land or water; also the moving, shoring and underpinning of all buildings. The loading and unloading of all derricks, cranes and pile driving materials. The tending, maintenance and operation of all valves pertaining to the operation of driving of pile. All diving and tending essential to the completion of jurisdictional claims.

All work done in the established yards of the Company and all work not enumerated above, shall be handled and manned as the Employer decides.

The pile driver will unload all material shipped in by rail from the point that the rail car is spotted.

All cleaning and preparation of all piling prior to driving.

The welding and attachment of all boot plates, pile points, splice plates, connectors, rock crosses, driving crosses, driving rigs, point reinforcements and overboots.

The construction, reconstruction, repair, alteration, demolition and partial or complete removal of all marine work including, but not limited to, docks, piers, wharves, quays, jetties, cribs, causeways, breakwaters, lighthouses and permanent buoys, etc. (mixing and placing of concrete excepted).

The driving and pulling of all wood, steel and concrete foundation piles and sheet piling.

The heading, pointing, splicing, cutting and welding of all piles.

The placing of all wales, bolts, studs, lagging, rods and washers including the cutting, drilling, boring or breaking of all holes or openings thereof.

The removal of all materials and/or obstructions of any nature (rip-rap included) that retard or interfere with the driving of piles or with the placing of wales, bolts and rods.
Carpenter Craft Jurisdiction

This is to be subject to the discretion of the contractor who may choose to use blasting specialists or other demolition specialists.

The handling on the job of all materials used in the work.

The manning of all floating equipment (towing equipment excepted) engaged in the work enumerated, including deck engines, except machinery manned by Operating Engineers.

The placing of all rip-rap, fill stone, bedding stone, cover stone and concrete blocks in connection with marine construction. Work normally performed by Employers, such as soil tests, shoring, underpinning of buildings, cribbing, driving of sheet piling, marine divers, tenders, underwater construction workers and similar operations shall continue to be included in the jurisdiction of this Agreement.

All burning, cutting, welding and fabrication of pipe, H-beams, sheet pile (metal or wood), done on the job site or in the yard of the Employer shall be done by pile drivers. The driving of bearing piles, sheet piling with heavy equipment, caissons, pile caps, auger drilling and boring, the setting up for load testing for any type of piling, all layout and spotting for piling, caisson and boring work, all earth retention, ditch boarding, installing tiebacks.

Asbestos Abatement Carpenters

(gg) All erection and maintenance of barriers and partitions used in the removing of asbestos or any abatement work. The abatement of any materials previously installed by the carpenter such as transite, ceiling and floor tiles. All operating and maintaining of current equipment used in any abatement work.
Houghton County

Official 2017 Prevailing Wage Rates for State Funded Projects

Issue Date: 8/22/2017

Contract must be awarded by: 11/20/2017

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>MLDC</th>
<th>Updated</th>
<th>Last</th>
<th>Straight</th>
<th>Time and</th>
<th>Overtime</th>
<th>Provision</th>
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<td>Asbestos, Lead and Mold Abatement Laborer</td>
<td>Asbestos, Lead and Mold Abatement Laborer</td>
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<td>$41.25</td>
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<td>$107.45</td>
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<td>H H D Y</td>
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Apprentice Rates:

1st 6 months | $40.31 | $59.49 | $78.67
2nd 6 months | $41.45 | $61.21 | $80.95
3rd 6 months | $42.57 | $62.88 | $83.19
4th 6 months | $43.69 | $64.57 | $85.43
5th 6 months | $44.81 | $66.24 | $87.67
6th 6 months | $48.63 | $72.50 | $96.36
7th 6 months | $49.32 | $73.01 | $96.69
8th 6 months | $51.58 | $76.40 | $101.21

Official Request #: 1057
Requestor: Michigan Technological University
Project Description: Remove and replace the elevator in the Academic Office Building
Project Number: 05-16-02
County: Houghton

Official Rate Schedule
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Page 1 of 27
## Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017

### Page 2 of 27

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated Hourly</th>
<th>Straight Time and Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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</thead>
</table>
| Bricklayer     | Marble, Tile and Terrazzo Finisher  
| BR6            | Make up day allowed comment  
|                | 6/2/2014          | $36.55 | $45.79 | $55.03 | H H D X H H D D Y |
|                | Four 10s allowed Monday-Thurs.  
|                | Make up days: Friday & Saturday.  

| Bricklayer, stone mason, mosaic worker,  
| plasterer, tuck pointer, pointer, caulk & cleaner  
| BR6-2         | Make up day allowed comment  
| 6/2/2014      | $42.71 | $55.03 | $67.35 | X X H X H H D Y |
| Saturday      | All time over 12 hours pr day - double |

### Apprentice Rates:

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<tr>
<th>Hours</th>
<th>Last Updated Hourly</th>
<th>Straight Time and Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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<td>0 - 749 hours</td>
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<td>750 - 1499 hours</td>
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<td>1500 - 2249 hours</td>
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<td>2250 - 2999 hours</td>
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<td>5250 - 6000 hours</td>
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| Marble, Tile and Terrazzo Layer  
| BR6TL        | Make up day allowed comment  
| 6/2/2014     | $42.71 | $55.03 | $67.35 | H H D X H H D D Y |
| Four 10s allowed Monday-Thurs.  
| Make up days: Friday & Saturday. |

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**Official Request #:** 1057  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building  
**Project Number:** 05-16-02  
**County:** Houghton  
**Official Rate Schedule:**  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017

**Classification Last  Straight Time and  a  Double  Overtime Provision**

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<th>Classification</th>
<th>Name Description</th>
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<th>Half Time</th>
<th>Double Time</th>
<th>Provision</th>
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<td>Apprentice Rates:</td>
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**Official Request #:** 1057  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

**County:** Houghton

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**Official Rate Schedule**

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Pile Driver

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time</th>
<th>Time and Half</th>
<th>Double Time</th>
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<td>Make up day allowed</td>
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</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H</td>
<td>Y</td>
</tr>
</tbody>
</table>

- **Apprentice Rates:**
  - 1st 6 months: $34.17, $41.35, $48.53
  - 2nd 6 months: $35.37, $43.15, $50.93
  - 3rd 6 months: $36.57, $44.95, $53.33
  - 4th 6 months: $37.76, $46.74, $55.71
  - 5th 6 months: $38.96, $48.53, $58.11
  - 6th 6 months: $40.16, $50.34, $60.51
  - 7th 6 months: $41.36, $52.14, $62.91
  - 8th 6 months: $42.55, $53.92, $65.29

### Cement Mason

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time</th>
<th>Time and Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make up day allowed</td>
<td>BR6-CM</td>
<td>$42.71</td>
<td>$55.03</td>
<td>$67.35</td>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td></td>
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<td>D</td>
<td>X</td>
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<td></td>
<td></td>
<td>D</td>
<td>Y</td>
</tr>
</tbody>
</table>

- **Apprentice Rates:**
  - 0 - 749 hours: $34.09, $42.10, $50.11
  - 750 - 1499 hours: $35.32, $43.95, $52.57
  - 1500 - 2249 hours: $36.55, $45.79, $55.03
  - 2250 - 2999 hours: $37.78, $47.63, $57.49
  - 3000 - 3749 hours: $39.01, $49.48, $59.95
  - 3750 - 4500 hours: $40.25, $51.34, $62.43

---

Official Request #: 1057  
Requestor: Michigan Technological University  
Project Description: Remove and replace the elevator in the Academic Office Building  
Project Number: 05-16-02  
County: Houghton  

Official Rate Schedule:  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Classification: Cement Mason

<table>
<thead>
<tr>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL16-16</td>
<td>$33.04</td>
<td>$43.99</td>
<td>$54.93</td>
<td>H H H H H H Y</td>
</tr>
</tbody>
</table>

Four 10s allowed Monday-Thursday with Friday or Saturday inclement weather makeup days. Saturday hours for inclement weather makeup shall be paid straight rate unless over 40 hours worked.

*Make up day allowed*  
Friday or Saturday for inclement weather

### Apprentice Rates:

1st year  $25.38 $32.49 $39.61
2nd year  $27.57 $35.78 $43.99
3rd year  $29.76 $39.07 $48.37

### Classification: Electrician

<table>
<thead>
<tr>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-1070</td>
<td>$36.60</td>
<td>$47.73</td>
<td>$58.85</td>
<td>H H H H H Y</td>
</tr>
</tbody>
</table>

4 10 hour days allowed M-Th

*Make up day allowed*  
Friday for inclement weather or holidays

### Apprentice Rates:

1st Period  $27.70 $34.37 $41.04
2nd Period  $29.93 $37.72 $45.50
3rd Period  $31.04 $39.38 $47.72
4th Period  $32.15 $41.04 $49.94
5th Period  $33.27 $42.73 $52.18
6th Period  $34.38 $44.40 $54.40

---

**Official Request #:** 1057  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building  
**Project Number:** 05-16-02  
**County:** Houghton  

**Official Rate Schedule**  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Classification

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside wireman for work above $160,000</td>
<td>EC-906z2H</td>
<td></td>
<td>$51.23</td>
<td>$68.06</td>
<td>$84.90</td>
<td>H H H H H H D Y</td>
</tr>
</tbody>
</table>

A 4 ten schedule may be worked if 4 consecutive days, M-Th

Make up day allowed comment 8/30/2016

**Apprentice Rates:**

2nd period indentured before 10/12/15  $32.77  $43.20  $53.63
3rd period indentured before 10/12/15  $36.26  $48.44  $60.61
4th period indentured before 10/12/15  $39.73  $53.64  $67.55
5th period indentured before 10/12/15  $41.47  $56.25  $71.03
6th period indentured before 10/12/15  $43.21  $58.86  $74.51
1st period indentured after 10/12/15  $25.83  $32.79  $39.75
2nd period indentured after 10/12/15  $27.56  $35.39  $43.21
3rd period indentured after 10/12/15  $31.04  $40.60  $50.17
4th period indentured after 10/12/15  $34.52  $45.83  $57.13
5th period indentured after 10/12/15  $37.99  $51.03  $64.07
6th period indentured after 10/12/15  $41.47  $56.25  $71.03

---

**Official Request #:** 1057  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building  
**Project Number:** 05-16-02  
**County:** Houghton  
**Official Rate Schedule**

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Updated Hourly</th>
<th>Half Time Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside wireman for work below 160,000</td>
<td>EC-905z2L</td>
<td>$48.94 $64.63 $80.32</td>
<td>H H H H H H D Y</td>
<td></td>
</tr>
<tr>
<td>A 4 ten schedule may be worked if 4 consecutive days, M-Th</td>
<td>Make up day allowed comment</td>
<td>8/30/2016</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- 1st period indentured before 10/12/15: $29.30 $38.00 $46.69
- 2nd period indentured before 10/12/15: $32.77 $43.20 $53.63
- 3rd period indentured before 10/12/15: $36.26 $48.44 $60.61
- 4th period indentured before 10/12/15: $39.73 $53.64 $67.55
- 5th period indentured before 10/12/15: $41.47 $56.25 $71.03
- 6th period indentured before 10/12/15: $43.21 $58.86 $74.51
- 1st period indentured after 10/12/15: $25.83 $32.79 $39.75
- 2nd period indentured after 10/12/15: $27.56 $35.39 $43.21
- 3rd period indentured after 10/12/15: $31.04 $40.60 $50.17
- 4th period indentured after 10/12/15: $34.52 $45.83 $57.13
- 5th period indentured after 10/12/15: $37.99 $51.03 $64.07
- 6th period indentured after 10/12/15: $41.47 $56.25 $71.03

**Elevator Constructor**

- Elevator Constructor Mechanic | EL-85 | $70.77 $116.32 | D D D D D D D Y |
- 4 tens allowed M-TH

**Apprentice Rates:**

- 1st year: $50.27 $75.32
- 2nd year: $54.83 $84.44
- 3rd year: $57.10 $88.98
- 4th year: $61.66 $98.10

---

Official Request #: 1057  
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County: Houghton  

Official Rate Schedule  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Last Updated</th>
<th>Straight Time and a Double Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glazier</td>
<td>Glazier GL-826</td>
<td>$44.78 $60.87 $76.95 H H H H H H D Y</td>
<td></td>
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<tr>
<td></td>
<td>4 tens allowed on consecutive days</td>
<td>6/3/2016</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st 6 months</td>
<td>$31.91 $41.57 $51.21 H H H H H H H H H D Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2nd 6 months</td>
<td>$33.52 $43.98 $54.43 H H H H H H H H H H D Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3rd 6 months</td>
<td>$35.12 $46.38 $57.63 H H H H H H H H H H D Y</td>
<td></td>
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<tr>
<td></td>
<td>4th 6 months</td>
<td>$36.74 $48.81 $60.87 H H H H H H H H H H H D Y</td>
<td></td>
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<tr>
<td></td>
<td>5th 6 months</td>
<td>$38.35 $51.22 $64.09 H H H H H H H H H H H H H H H</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6th 6 months</td>
<td>$39.96 $53.64 $67.31 H H H H H H H H H H H H H H H</td>
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<tr>
<td></td>
<td>7th 6 months</td>
<td>$41.57 $56.05 $70.53 H H H H H H H H H H H H H H H</td>
<td></td>
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<tr>
<td></td>
<td>8th 6 months</td>
<td>$43.17 $58.45 $73.73 H H H H H H H H H H H H H H H</td>
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<tr>
<td>Heat and Frost Insulator</td>
<td>Heat and Frost Insulator as127</td>
<td>$42.97 $55.93 $68.89 H H H D D D Y</td>
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<tr>
<td></td>
<td>Make up day allowed</td>
<td>11/3/2014</td>
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<tr>
<td></td>
<td><strong>Apprentice Rates:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st year</td>
<td>$30.01 $36.49 $42.97 H H H H H H H H H H H H H H</td>
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</tr>
<tr>
<td></td>
<td>2nd year</td>
<td>$32.60 $40.37 $48.15 H H H H H H H H H H H</td>
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<tr>
<td></td>
<td>3rd year</td>
<td>$35.19 $44.26 $53.33 H H H H H H H H H H H H H</td>
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<tr>
<td></td>
<td>4th year</td>
<td>$37.79 $48.16 $58.53 H H H H H H H H H H H H H</td>
<td></td>
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<tr>
<td>Spray Insulation</td>
<td>Spray Insulation - Qualified Senior Sprayer, AS25S</td>
<td>$29.04 $42.35 X X X H H H H</td>
<td>3/31/2017</td>
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<tr>
<td></td>
<td>application of all products</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Description</td>
<td>Updated</td>
<td>Last Updated</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
<td>--------------</td>
</tr>
<tr>
<td>Ironworker</td>
<td>For work over $10 million: Structural, Ornamental, Machinery Rigger &amp; Reinforcing Ironworker; installation of sheet metal siding</td>
<td>9/29/2014</td>
<td>IR-8-A</td>
</tr>
<tr>
<td></td>
<td>Make up day allowed</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Apprentice Rates:</td>
<td>9/29/2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 - 1,000 hours</td>
<td>$25.39</td>
<td>$37.75</td>
</tr>
<tr>
<td></td>
<td>1,001 - 2,000 hours</td>
<td>$37.71</td>
<td>$51.22</td>
</tr>
<tr>
<td></td>
<td>2,001 - 3,000 hours</td>
<td>$39.01</td>
<td>$53.17</td>
</tr>
<tr>
<td></td>
<td>3,001 - 4,000 hours</td>
<td>$40.31</td>
<td>$55.12</td>
</tr>
<tr>
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<td>4,001 - 5,000 hours</td>
<td>$41.61</td>
<td>$57.07</td>
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<td></td>
<td>5,001 - 6,000 hours</td>
<td>$42.92</td>
<td>$59.04</td>
</tr>
<tr>
<td></td>
<td>6,001 - 7,000 hours</td>
<td>$44.22</td>
<td>$60.98</td>
</tr>
<tr>
<td></td>
<td>For work under $10 Million: Structural, Ornamental, Machinery Rigger &amp; Reinforcing Ironworker; pre-engineered metal buildings</td>
<td>9/29/2014</td>
<td>IR-8-B</td>
</tr>
<tr>
<td></td>
<td>Make up day allowed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Apprentice Rates:</td>
<td>9/29/2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-1,000 hours</td>
<td>$25.39</td>
<td>$37.75</td>
</tr>
<tr>
<td></td>
<td>1,001 - 2,000 hours</td>
<td>$37.71</td>
<td>$51.22</td>
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<tr>
<td></td>
<td>2,001 - 3,000 hours</td>
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<td>3,001 - 4,000 hours</td>
<td>$40.31</td>
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<td>4,001 - 5,000 hours</td>
<td>$41.61</td>
<td>$57.07</td>
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<td>5,001 - 6,000 hours</td>
<td>$42.92</td>
<td>$59.04</td>
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<tr>
<td></td>
<td>6,001 - 7,000 hours</td>
<td>$44.22</td>
<td>$60.98</td>
</tr>
</tbody>
</table>

Official Request #: 1057
Requestor: Michigan Technological University
Project Description: Remove and replace the elevator in the Academic Office Building
Project Number: 05-16-02
County: Houghton

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Updated</th>
<th>Last Updated</th>
<th>Straight Time and a Half Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer</td>
<td>Class A Laborer - construction laborer on building and heavy construction work, storm, and sanitary sewers on all construction sites and streets which are not included in the road builder rates, tool crib attendant, civil engineer helper, rodman, oxi-gun operator, propane or acetylene cutting torch operator, motor driven buggies, chipping hammers, tamping machines, green cutting, sand blasters, mason tenders, mortar mixers, material mixers, vibrator operators, concrete mixers, laborers with concrete crew, mixer to pour, including pour time from trucks.</td>
<td>L1329-B-A</td>
<td>$34.03</td>
<td>$44.35</td>
<td>$54.66 X X X X X X D Y</td>
</tr>
<tr>
<td></td>
<td>Class B Laborer - Cement gun nozzleman, blasters, miners, drillers, buster operators, layers of all non-metallic pipe</td>
<td>L1329-B-B</td>
<td>$34.45</td>
<td>$44.98</td>
<td>$55.50 X X X X X X D Y</td>
</tr>
<tr>
<td></td>
<td>Class C Laborer - caisson worker &amp; airtrack</td>
<td>L1329-B-C</td>
<td>$34.82</td>
<td>$45.53</td>
<td>$56.24 X X X X X X D Y</td>
</tr>
<tr>
<td></td>
<td>Class D Laborer - Watchmen, Fire Watch and Hole Watch</td>
<td>L1329-B-D</td>
<td>$31.96</td>
<td>$41.24</td>
<td>$50.52 X X X X X X D Y</td>
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<tr>
<td></td>
<td>Class E Laborer - Digester, Tanks &amp; Kilns</td>
<td>L1329-B-E</td>
<td>$36.20</td>
<td>$47.60</td>
<td>$59.00 X X X X X X D Y</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**
- 0 - 1,000 hours: $28.87, $36.60, $44.34
- 1,001 - 2,000 hours: $29.90, $38.15, $46.40
- 2,001 - 3,000 hours: $30.94, $39.71, $48.48
- 3,001 - 4,000 hours: $33.00, $42.80, $52.60

Official Request #: 1057
Requestor: Michigan Technological University
Project Description: Remove and replace the elevator in the Academic Office Building on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
Project Number: 05-16-02
County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
## Official 2017 Prevailing Wage Rates for State Funded Projects

### Issue Date: 8/22/2017

### Contract must be awarded by: 11/20/2017

#### Page 11 of 27

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Time</th>
<th>Half a Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laborer - Hazardous</td>
<td>Class A</td>
<td>performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulations; or a laborer performing work in conjunction with the removal, handling, or containment of hazardous waste substances when use of personal protective equipment level &quot;D&quot; is required.</td>
<td>LHAZ-Z11-A</td>
<td>$32.91</td>
<td>$46.37</td>
<td>$59.82</td>
</tr>
</tbody>
</table>

*Make up day allowed  comment*

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

### Apprentice Rates:
0-1,000 work hours  $27.93  $38.90  $49.86
1,001-2,000 work hours  $28.93  $40.40  $51.86
2,001-3,000 work hours  $29.92  $41.88  $53.84
3,001-4,000 work hours  $31.91  $44.86  $57.82

Class B - performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.

*Make up day allowed  comment*

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

### Apprentice Rates:
0-1,000 work hours  $28.68  $40.02  $51.36
1,001-2,000 work hours  $29.73  $41.60  $53.46
2,001-3,000 work hours  $30.77  $43.16  $55.54
3,001-4,000 work hours  $32.86  $46.29  $59.72

Official Request #: 1057
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### Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Page 11 of 27
### Laborer Underground - Tunnel, Shaft and Caisson

**Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.**

Last Updated: 10/30/2014

<table>
<thead>
<tr>
<th>Straight Hourly</th>
<th>Time and a Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>$35.67</td>
<td>$47.07</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- 0-1,000 work hours: $30.52, $39.35, $48.17
- 1,001-2,000 work hours: $31.55, $40.90, $50.23
- 2,001-3,000 work hours: $32.58, $42.44, $52.29
- 3,001-4,000 work hours: $34.64, $45.53, $56.41

**Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder**

Last Updated: 10/30/2014

<table>
<thead>
<tr>
<th>Straight Hourly</th>
<th>Time and a Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>$35.76</td>
<td>$47.21</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- 0-1,000 work hours: $30.58, $39.44, $48.29
- 1,001-2,000 work hours: $31.62, $41.00, $50.37
- 2,001-3,000 work hours: $32.66, $42.56, $52.45
- 3,001-4,000 work hours: $34.72, $45.65, $56.57

---

**Official Request #: 1057**

Requestor: Michigan Technological University

Project Description: Remove and replace the elevator in the Academic Office Building

Project Number: 05-16-02

County: Houghton

---

**Official Rate Schedule**

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Page 12 of 27
### Classification

#### Name Description

<table>
<thead>
<tr>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
</table>

#### Class III - Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, concrete shoveler, conveyor man, floor man, gasoline and electric tool operator, gunnite man, grout operator, welder, heading dinky man, inside lock tender, pea gravel operator, pump man, outside lock tender, scaffold man, top signal man, switch man, track man, tugger man, utility man, vibrator man, winch operator, pipe jacking man, wagon drill and air track operator and concrete saw operator (under 40 h.p.).

Apprentice Rates:

<table>
<thead>
<tr>
<th>Work Hours Range</th>
<th>Hourly Rate</th>
<th>Half Hourly Rate</th>
<th>Double Hourly Rate</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000 work hours</td>
<td>$30.66</td>
<td>$39.56</td>
<td>$48.45</td>
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<tr>
<td>1,001-2,000 work hours</td>
<td>$31.70</td>
<td>$41.12</td>
<td>$50.53</td>
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<tr>
<td>2,001-3,000 work hours</td>
<td>$32.74</td>
<td>$42.68</td>
<td>$52.61</td>
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<tr>
<td>3,001-4,000 work hours</td>
<td>$34.82</td>
<td>$45.80</td>
<td>$56.77</td>
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</table>

#### Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.

Apprentice Rates:

<table>
<thead>
<tr>
<th>Work Hours Range</th>
<th>Hourly Rate</th>
<th>Half Hourly Rate</th>
<th>Double Hourly Rate</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1,000 work hours</td>
<td>$30.78</td>
<td>$39.74</td>
<td>$48.69</td>
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<tr>
<td>1,001-2,000 work hours</td>
<td>$31.83</td>
<td>$41.32</td>
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<td>$32.88</td>
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<td>$34.97</td>
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Official Request #: 1057  
Requestor: Michigan Technological University  
Project Description: Remove and replace the elevator in the Academic Office Building  
Project Number: 05-16-02  
County: Houghton

Official Rate Schedule  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Classification 
#### Name 
#### Description 

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)</td>
<td>LAUCT-Z2-5</td>
<td>$36.28</td>
<td>$47.99</td>
<td>$59.69</td>
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<td>Apprentice Rates:</td>
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<td></td>
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<tr>
<td>0-1,000 work hours</td>
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<td>$30.98</td>
<td>$40.04</td>
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<td></td>
<td>$49.09</td>
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<tr>
<td>1,001-2,000 work hours</td>
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<td>$32.04</td>
<td>$41.63</td>
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<tr>
<td>2,001-3,000 work hours</td>
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<td>$33.10</td>
<td>$43.22</td>
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<td>$53.33</td>
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<tr>
<td>3,001-4,000 work hours</td>
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<td>$35.22</td>
<td>$46.40</td>
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<td>$57.57</td>
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<td>Class VI - Dynamite man and powder man.</td>
<td>LAUCT-Z2-6</td>
<td>$36.59</td>
<td>$48.45</td>
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<tr>
<td>0-1,000 work hours</td>
<td></td>
<td>$31.21</td>
<td>$40.38</td>
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<td>$33.36</td>
<td>$43.61</td>
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<td>3,001-4,000 work hours</td>
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<td>$46.84</td>
<td></td>
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<td>$58.15</td>
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<tr>
<td>Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.</td>
<td>LAUCT-Z2-7</td>
<td>$28.86</td>
<td>$36.86</td>
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**Official Request #: 1057**

**Requestor:** Michigan Technological University

**Project Description:** Remove and replace the elevator in the Academic Office Building

**Project Number:** 05-16-02

**County:** Houghton

---

**Official Rate Schedule**

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>LLAN-Z2-A</th>
<th>LLAN-Z2-B</th>
<th>GLF D</th>
<th>GLF-1</th>
<th>GLF-2</th>
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</thead>
<tbody>
<tr>
<td>Landscape Laborer</td>
<td>Landscape Specialist includes air, gas, and diesel equipment operator, skidsteer (or equivalent), lawn sprinkler installer on landscaping work where seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintenance of landscape projects occurs. Sundays paid at time &amp; one half. Holidays paid at double time.</td>
<td></td>
<td>$28.25</td>
<td>$32.74</td>
<td>$70.82</td>
<td>$72.32</td>
</tr>
<tr>
<td></td>
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<td>$39.04</td>
<td>$41.42</td>
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<td></td>
<td>Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, material mover, truck driver on when seeding, sodding, planting, cutting, trimming, backfilling, rough grading or maintaining of landscape projects occurs. Sundays paid at time &amp; one half. Holidays paid at double time.</td>
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<td>10/13/2015</td>
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<td></td>
<td>Operating Engineer - DIVER</td>
<td>GLF D</td>
<td>$52.80</td>
<td>$79.20</td>
<td>$105.60</td>
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<tr>
<td></td>
<td>Diver/Wet Tender/Tender/Rov Pilot/Rov Tender</td>
<td>GLF D</td>
<td>$79.20</td>
<td>$105.60</td>
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<td>Operating Engineer - Marine Construction</td>
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<td>$93.82</td>
<td>$115.32</td>
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<td>Diver/Wet Tender, Engineer (hydraulic dredge), Diver Tender</td>
<td>GLF-1</td>
<td>$93.82</td>
<td>$115.32</td>
<td>X X H H</td>
<td>H H D Y</td>
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<td>Make up day allowed</td>
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<td>Subdivision of county</td>
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<tr>
<td></td>
<td>all Great Lakes, islands therein, &amp; connecting &amp; tributary waters</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Crane/Backhoe Operator, 70 ton or over Tug Operator, Mechanic/Welder, Assistant Engineer (hydraulic dredge), Leverman (hydraulic dredge), Diver Tender</td>
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<td>1/23/2017</td>
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<td>Make up day allowed</td>
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<td>All Great Lakes, islands therein, &amp; connecting &amp; tributary waters</td>
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</tbody>
</table>

Official Request #: 1057
Requestor: Michigan Technological University
Project Description: Remove and replace the elevator in the Academic Office Building
Project Number: 05-16-02
County: Statewide

Official Rate Schedule
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
# Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017  
**Page 16 of 27**

<table>
<thead>
<tr>
<th>Classification Name</th>
<th>Description</th>
<th>Updated Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction, Lattice Boom or Crane License Certification</td>
<td>GLF-2B</td>
<td>$72.32</td>
<td>$93.82</td>
<td>$115.32</td>
<td>$X $H $H $H $H $D $Y</td>
</tr>
</tbody>
</table>

**Holiday pay = 2.5 times the straight hourly rate**

1/23/2017  
**Subdivision of county:** All Great Lakes, islands therein, & connecting & tributary waters

| Deck Equipment Operator, Machineryman, Maintenance of Crane (over 50 ton capacity) or Backhoe (115,000 lbs or more), Tug/Launch Operator, Loader, Dozer on Barge, Deck Machinery | GLF-3 | $66.27 | $84.75 | $103.22 | $X $H $H $H $H $D $Y |

**Holiday pay = 2.5 times the straight hourly rate**

1/23/2017  
**Subdivision of county:** All Great Lakes, islands therein, & connecting & tributary waters

| Deck Equipment Operator, (Machineryman/Fireman), (4 equipment units or more), Off Road Trucks, Deck Hand, Tug Engineer, & Crane Maintenance 50 ton capacity and under or Backhoe 115,000 lbs or less, Assistant Tug Operator | GLF-4 | $60.07 | $75.45 | $90.82 | $X $H $H $H $H $D $Y |

**Holiday pay = 2.5 times the straight hourly rate**

1/23/2017  
**Subdivision of county:** All Great Lakes, islands therein, & connecting & tributary waters

### Operating Engineer General Construction and Underground

| Crane 120’ boom & jib | EN-324UP-120GU | $52.20 | $66.73 | $81.26 | $X $H $H $H $H $D $N |

**Double time after 12 hours Mon-Sat**

4/28/2017  

| Crane 140’ boom & jib | EN-324UP-140GU | $52.45 | $67.11 | $81.76 | $X $H $H $H $H $D $N |

**Double time after 12 hours Mon-Sat**

4/28/2017  

| Crane with 400’ or longer main boom & jib | EN-324UP-400GU | $56.24 | $72.75 | $89.25 | $X $H $H $H $H $D $N |

**Double time after 12 hours Mon-Sat**

4/28/2017  

---

**Official Request #: 1057**  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building  
**Project Number:** 05-16-02  
**County:** Houghton  

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**Official Rate Schedule**  
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<th>a Double Time Provision</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A</td>
<td>Regular equipment operator, crane, dozer, front end loader, pumpcrete, squeeze crete, job mechanic, welder, concrete pump, excavator, milling &amp; pulverizing machines, &amp; scraper (self-propelled &amp; tractor drawn).</td>
<td>EN-324UP-AGU</td>
<td>$51.70</td>
<td>$65.98</td>
<td>$80.26</td>
<td>X X H H H H H D N</td>
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<td></td>
<td>Apprentice Rates:</td>
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<td></td>
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<tr>
<td></td>
<td>1st 6 months</td>
<td>$42.22</td>
<td>$52.22</td>
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<td>2nd 6 months</td>
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<td>4th 6 months</td>
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<tr>
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<td>5th 6 months</td>
<td>$47.93</td>
<td>$60.78</td>
<td>$73.63</td>
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<td>6th 6 months</td>
<td>$49.36</td>
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<td>$76.49</td>
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<tr>
<td>Class B</td>
<td>Air-Trac Drill, boom truck (non-swing), concrete mixers, material hoist and tugger, pumps 6&quot; and over, beltcrete, sweeping machine, trencher, head grease man, winches, well points and freeze systems</td>
<td>EN-324UP-BGU</td>
<td>$48.45</td>
<td>$61.11</td>
<td>$73.76</td>
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</tr>
<tr>
<td>Class C</td>
<td>Fork Truck, air compressor, conveyer, concrete saw, farm tractor(without attachments), generator, guard post driver, mulching machines, pumps under 6&quot;, welding machines,</td>
<td>EN-324UP-CGU</td>
<td>$47.87</td>
<td>$60.24</td>
<td>$72.60</td>
<td>X X H H H H H D N</td>
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<tr>
<td></td>
<td>Double time after 12 hours Mon-Sat</td>
<td>4/28/2017</td>
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</tr>
<tr>
<td>Class D</td>
<td>Oiler, fireman, heater operator, brock concrete breaker, elevators (other than passenger), end dump &amp; skid steer</td>
<td>EN-324UP-DGU</td>
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<td>$58.83</td>
<td>$70.72</td>
<td>X X H H H H H D N</td>
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<td></td>
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<td>4/28/2017</td>
<td></td>
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</tr>
<tr>
<td>Crane 220' boom &amp; jib</td>
<td>EN-324UP-GU</td>
<td>$52.70</td>
<td>$65.98</td>
<td>$82.26</td>
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<td>X X H H H H H D N</td>
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## Classification

### Last Updated

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<th>Classification</th>
<th>Description</th>
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<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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<tbody>
<tr>
<td>Mechanic w/ truck &amp; tools</td>
<td>EN-324UP-MGU</td>
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<td>$53.20</td>
<td>$68.23</td>
<td>$83.26</td>
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<tr>
<td><strong>Operating Engineer Steel Work</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crane 120' boom &amp; jib</td>
<td>EN-324UP-120S</td>
<td>4/28/2017</td>
<td>$52.60</td>
<td>$67.33</td>
<td>$82.06</td>
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<tr>
<td>Crane 140' boom &amp; jib</td>
<td>EN-324UP-140S</td>
<td>4/28/2017</td>
<td>$52.85</td>
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<td>$82.56</td>
<td>X X H H H H D Y</td>
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<tr>
<td>Crane 220' boom &amp; jib</td>
<td>EN-324UP-220S</td>
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<td>$53.10</td>
<td>$68.08</td>
<td>$83.06</td>
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<tr>
<td>Crane with 300' boom &amp; jib</td>
<td>EN-324UP-300S</td>
<td>4/28/2017</td>
<td>$54.91</td>
<td>$70.75</td>
<td>$86.59</td>
<td>X X H H H H D Y</td>
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<tr>
<td>Crane with 400' boom &amp; jib</td>
<td>EN-324UP-400S</td>
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<td>$56.64</td>
<td>$73.35</td>
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<tr>
<td>Compressor, Welder &amp; Forklift</td>
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<td>$61.71</td>
<td>$74.56</td>
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<tr>
<td>Mechanic w/ truck &amp; tools</td>
<td>EN-324UP-MS</td>
<td>4/28/2017</td>
<td>$53.60</td>
<td>$68.83</td>
<td>$84.06</td>
<td>X X H H H H D Y</td>
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<td>Oiler &amp; Fireman</td>
<td>EN-324UP-OFS</td>
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<td>$47.55</td>
<td>$59.76</td>
<td>$71.96</td>
<td>X X H H H H D Y</td>
</tr>
</tbody>
</table>

**Official Request #: 1057**

Requestor: Michigan Technological University

Project Description: Remove and replace the elevator in the Academic Office Building

Project Number: 05-16-02

County: Houghton

Official Rate Schedule

Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.
### Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017

#### Page 19 of 27

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operator</strong></td>
<td>EN-324UP-OS</td>
<td>$52.10</td>
<td>$66.58</td>
<td>$81.06</td>
<td>X</td>
<td>X</td>
<td>H</td>
</tr>
</tbody>
</table>

**comment** 4/28/2017

Double time after 12 hours Mon-Sat

**Apprentice Rates:**

- 1st 6 months: $42.50, $52.63, $62.77
- 2nd 6 months: $43.95, $54.82, $65.67
- 3rd 6 months: $45.39, $56.97, $68.55
- 4th 6 months: $46.84, $59.15, $71.45
- 5th 6 months: $48.29, $61.32, $74.35
- 6th 6 months: $49.74, $63.50, $77.25

**Painter**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-1011</td>
<td>Painter</td>
<td>$31.25</td>
<td>$41.01</td>
<td>$50.76</td>
<td>H</td>
<td>H</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- 1st 1000 hours: $23.45, $29.30, $35.16
- 2nd 1000 hours: $24.42, $30.76, $37.10
- 3rd 1000 hours: $25.40, $32.23, $39.06
- 4th 1000 hours: $26.37, $33.68, $41.00
- 5th 1000 hours: $27.35, $35.16, $42.96
- 6th 1000 hours: $28.32, $36.61, $44.90
- 7th 1000 hours: $29.30, $38.08, $46.86
- 8th 1000 hours: $30.27, $39.54, $48.80

---

**Official Request #:** 1057  
**Requestor:** Michigan Technological University  
**Project Description:** Remove and replace the elevator in the Academic Office Building  
**Project Number:** 05-16-02  
**County:** Houghton  

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## Official 2017 Prevailing Wage Rates for State Funded Projects

### Issue Date: 8/22/2017

**Contract must be awarded by:** 11/20/2017

**Page 20 of 27**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Painter (under 30 feet)</td>
<td>PT-1011B</td>
<td>$35.89</td>
<td>$47.97</td>
<td>$60.04</td>
<td>H H H H H H H D N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

1st 1,000 hours: $26.23 $33.48 $40.72
2nd 1,000 hours: $27.44 $35.29 $43.14
3rd 1,000 hours: $28.64 $37.09 $45.54
4th 1,000 hours: $29.85 $38.90 $47.96
5th 1,000 hours: $31.06 $40.72 $50.38
6th 1,000 hours: $32.27 $42.54 $52.80
7th 1,000 hours: $33.48 $44.35 $55.22
8th 1,000 hours: $34.68 $46.15 $57.62

| Drywall Finisher, Soundproofing, & Plural Component Applicator | PT-1011-DF | $37.67      | $50.64       | $63.60          | H H H H H H D N    |                    |

**Apprentice Rates:**

1st 1,000 hours: $27.30 $35.08 $42.86
2nd 1,000 hours: $28.59 $37.02 $45.44
3rd 1,000 hours: $29.89 $38.96 $48.04
4th 1,000 hours: $31.19 $40.92 $50.64
5th 1,000 hours: $32.48 $42.85 $53.22
6th 1,000 hours: $33.78 $44.80 $55.82
7th 1,000 hours: $35.08 $46.75 $58.42
8th 1,000 hours: $36.37 $48.68 $61.00

| Pipe and Manhole Rehab | General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant | TM247 | $28.20      | $38.20       | H H H H H H H N    |                    |

**Official Request #: 1057**

Requestor: Michigan Technological University

Project Description: Remove and replace the elevator in the Academic Office Building on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Project Number: 05-16-02

County: Statewide

---

Official Rate Schedule
<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment</td>
<td>$32.70</td>
<td>$44.95</td>
<td>H H H H H H H N</td>
<td>4/17/2015</td>
</tr>
<tr>
<td></td>
<td>CCTV Technician/Combo Unit Operator: unit driver and operator of CCTV unit or combo unit in connection with normal cleaning and televising work</td>
<td>$31.45</td>
<td>$43.07</td>
<td>H H H H H H H N</td>
<td>4/17/2015</td>
</tr>
<tr>
<td></td>
<td>Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated</td>
<td>$33.20</td>
<td>$45.70</td>
<td>H H H H H H H N</td>
<td>4/17/2015</td>
</tr>
<tr>
<td></td>
<td>Combo Unit driver &amp; Jetter-Vac Operator</td>
<td>$33.20</td>
<td>$45.70</td>
<td>H H H H H H H N</td>
<td>4/17/2015</td>
</tr>
<tr>
<td></td>
<td>Pipe Bursting &amp; Slip-lining Equipment Operator</td>
<td>$34.20</td>
<td>$47.20</td>
<td>H H H H H H H N</td>
<td>4/17/2015</td>
</tr>
<tr>
<td>Plasterer</td>
<td>Plasterer</td>
<td>$38.71</td>
<td>$51.63</td>
<td>$64.54</td>
<td>H H H H H D N</td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- 1st year: $29.67 $38.06 $46.46
- 2nd year: $32.25 $41.94 $51.62
- 3rd year: $34.84 $45.82 $56.80

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### Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017  
**Page 22 of 27**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated</th>
<th>Last Hourly</th>
<th>Straight Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plumber, Pipefitter, Welder, HVAC &amp; Refrigeration</td>
<td>Plumber, Pipefitter, Welder, HVAC &amp; Refrigeration</td>
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<td>$47.61</td>
<td>$71.42</td>
<td>$95.22</td>
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<td></td>
<td>4 ten hour days may be worked only Monday-</td>
<td></td>
<td></td>
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</tr>
<tr>
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<td>Apprentice Rates:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st 6 months</td>
<td>$23.96</td>
<td>$35.94</td>
<td>$47.92</td>
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<tr>
<td></td>
<td>2nd 6 months</td>
<td>$25.44</td>
<td>$38.16</td>
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<tr>
<td></td>
<td>3rd 6 months</td>
<td>$35.32</td>
<td>$52.98</td>
<td>$70.64</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4th 6 months</td>
<td>$36.65</td>
<td>$54.98</td>
<td>$73.30</td>
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<td></td>
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<tr>
<td></td>
<td>5th 6 months</td>
<td>$37.99</td>
<td>$56.98</td>
<td>$75.98</td>
<td></td>
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<tr>
<td></td>
<td>6th 6 months</td>
<td>$39.47</td>
<td>$59.20</td>
<td>$78.94</td>
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<tr>
<td></td>
<td>7th 6 months</td>
<td>$40.80</td>
<td>$61.20</td>
<td>$81.60</td>
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<tr>
<td></td>
<td>8th 6 months</td>
<td>$42.13</td>
<td>$63.20</td>
<td>$84.26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9th 6 months</td>
<td>$43.46</td>
<td>$65.19</td>
<td>$86.92</td>
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<table>
<thead>
<tr>
<th>Roofer</th>
<th>Commercial Roofer</th>
<th>4/17/2015</th>
<th>$28.23</th>
<th>$36.56</th>
<th>$44.88</th>
<th>X X X X X D Y</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Make up day allowed</td>
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<td></td>
<td></td>
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<td></td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td>$20.84</td>
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<td>$31.08</td>
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<tr>
<td></td>
<td>Apprentice 2</td>
<td>$21.67</td>
<td>$27.17</td>
<td>$32.67</td>
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<tr>
<td></td>
<td>Apprentice 3</td>
<td>$22.48</td>
<td>$28.37</td>
<td>$34.26</td>
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<td></td>
<td>Apprentice 4</td>
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<td>Apprentice 5</td>
<td>$24.09</td>
<td>$30.72</td>
<td>$37.36</td>
<td></td>
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<tr>
<td></td>
<td>Apprentice 6</td>
<td>$24.90</td>
<td>$31.91</td>
<td>$38.93</td>
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</tr>
</tbody>
</table>

| Sewer Relining | Class I-Operator of audio visual CCTV system including remote in-ground cutter and other equipment used in conjunction with CCTV | 11/24/2015 | $43.66 | $59.01 | $74.36 | H H H H H D N |

**Official Request #:** 1057  
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**Project Number:** 05-16-02  
**County:** Statewide

---

**Official Rate Schedule**

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Class II-Operator of hot water heaters and circulation system; water jetters; and vacuum and mechanical debris removal systems and those assisting.

Sheet Metal Worker

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
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<tbody>
<tr>
<td>Class II</td>
<td>SR-II</td>
<td>$42.13</td>
<td>$56.72</td>
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Sheet Metal Worker

<table>
<thead>
<tr>
<th>Description</th>
<th>Updated</th>
<th>Straight Hourly</th>
<th>Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
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<tbody>
<tr>
<td>shm-7-5</td>
<td>11/24/15</td>
<td>$53.09</td>
<td>$67.30</td>
<td>$81.50</td>
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</table>

Make up day allowed comment 10/7/2016

A make up day may be worked due to inclement weather, the make up hours shall be paid at the regular hourly rate of pay.

Apprentice Rates:

<table>
<thead>
<tr>
<th>Months</th>
<th>$30.67</th>
<th>$37.78</th>
<th>$44.88</th>
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<tbody>
<tr>
<td>1st 6 months</td>
<td></td>
<td>$30.67</td>
<td>$44.88</td>
</tr>
<tr>
<td>2nd 6 months</td>
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<td>$44.88</td>
</tr>
<tr>
<td>3rd 6 months</td>
<td></td>
<td>$32.77</td>
<td>$48.40</td>
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<td>4th 6 months</td>
<td></td>
<td>$34.87</td>
<td>$51.92</td>
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<td>5th 6 months</td>
<td></td>
<td>$36.97</td>
<td>$55.44</td>
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<td>6th 6 months</td>
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<td>$39.08</td>
<td>$58.97</td>
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<td>7th 6 months</td>
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<td>$62.50</td>
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<td>8th 6 months</td>
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<td>$43.29</td>
<td>$66.02</td>
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## Official 2017 Prevailing Wage Rates for State Funded Projects

**Issue Date:** 8/22/2017  
**Contract must be awarded by:** 11/20/2017  
**Page 24 of 27**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
<th>Updated Hourly</th>
<th>Time and a Half</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprinkler Fitter</td>
<td>SP 669</td>
<td>$51.64</td>
<td>$68.45</td>
<td>$85.26</td>
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<tr>
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<td><em>Make up day allowed</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Apprentice Rates:**

- **Class 1:** $23.03 $30.60 $38.16  
- **Class 2:** $24.71 $33.12 $41.52  
- **Class 3:** $34.01 $43.26 $52.50  
- **Class 4:** $35.69 $45.78 $55.86  
- **Class 5:** $37.62 $48.55 $59.47  
- **Class 6:** $39.30 $51.07 $62.83  
- **Class 7:** $40.99 $53.60 $66.21  
- **Class 8:** $42.67 $56.12 $69.57  
- **Class 9:** $44.35 $58.64 $72.93  
- **Class 10:** $46.03 $61.16 $76.29

**Truck Driver**

- **of all trucks of 8 cubic yd capacity or over**  
  TM-RB2  
  $44.10 $48.81 H H H H H H H Y  
  6/7/2016

- **of all trucks of 8 cubic yard capacity or less**  
  (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semi's, euclid type equipment, double bottoms and low boys)  
  TM-RB2A  
  $44.00 $48.66 H H H H H H H Y  
  6/7/2016

- **on euclid type equipment**  
  TM-RB2B  
  $44.25 $49.04 H H H H H H H Y  
  6/7/2016

---

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**Page 25 of 27**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Name Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Underground Laborer Open Cut, Class I</strong></td>
<td></td>
</tr>
<tr>
<td>Construction Laborer</td>
<td>LAUC-Z5-1</td>
</tr>
<tr>
<td>Last Updated</td>
<td>$32.75 $42.68 $52.61 X X X X X X D Y</td>
</tr>
<tr>
<td>Apprentice Rates:</td>
<td></td>
</tr>
<tr>
<td>0-1,000 work hours</td>
<td>$28.35 $36.08 $43.81</td>
</tr>
<tr>
<td>1,001-2,000 work hours</td>
<td>$29.23 $37.40 $45.57</td>
</tr>
<tr>
<td>2,001-3,000 work hours</td>
<td>$30.11 $38.72 $47.33</td>
</tr>
<tr>
<td>3,001-4,000 work hours</td>
<td>$31.87 $41.36 $50.85</td>
</tr>
</tbody>
</table>

| **Underground Laborer Open Cut, Class II**          |                                                                                   |
| Mortar and material mixer, concrete form man,       |                                                                                   |
| signal man, well point man, manhole, headwall        |                                                                                   |
| and catch basin builder, guard rail builders,       |                                                                                   |
| headwall, seawall, breakwall, dock builder and      |                                                                                   |
| fence erector.                                     |                                                                                   |
| Last Updated                                        | $32.89 $42.89 $52.89 X X X X X X D Y                                             |
| Apprentice Rates:                                   |                                                                                  |
| 0-1,000 work hours                                 | $28.46 $36.25 $44.03                                                            |
| 1,001-2,000 work hours                             | $29.34 $37.57 $45.79                                                            |
| 2,001-3,000 work hours                             | $30.23 $38.90 $47.57                                                            |
| 3,001-4,000 work hours                             | $32.00 $41.56 $51.11                                                            |

| **Underground Laborer Open Cut, Class III**         |                                                                                   |
| Air, gasoline and electric tool operator, vibrator   |                                                                                   |
| operator, drillers, pump man, tar kettle operator,  |                                                                                   |
| bracers, rodder, reinforced steel or mesh man        |                                                                                   |
| (e.g. wire mesh, steel mats, dowel bars, etc.),      |                                                                                   |
| cement finisher, welder, pipe jacking and boring    |                                                                                   |
| man, wagon drill and air track operator and         |                                                                                   |
| concrete saw operator (under 40 h.p.), windlass      |                                                                                   |
| and tugger man, and directional boring man.         |                                                                                   |
| Last Updated                                        | $33.02 $43.09 $53.15 X X X X X X D Y                                             |
| Apprentice Rates:                                   |                                                                                  |
| 0-1,000 work hours                                 | $28.56 $36.40 $44.23                                                            |
| 1,001-2,000 work hours                             | $29.45 $37.74 $46.01                                                            |
| 2,001-3,000 work hours                             | $30.34 $39.07 $47.79                                                            |
| 3,001-4,000 work hours                             | $32.13 $41.76 $51.37                                                            |

Official Request #: 1057  
Requestor: Michigan Technological University  
Project Description: Remove and replace the elevator in the Academic Office Building  
Project Number: 05-16-02  
County: Houghton  

**Official Rate Schedule**  
Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in a contract.

Page 25 of 27
### Underground Laborer Open Cut, Class IV
Trench or excavating grade man.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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<tbody>
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</tbody>
</table>

**Apprentice Rates:**

- 0-1,000 work hours: $28.59, $36.44, $44.29
- 1,001-2,000 work hours: $29.49, $37.80, $46.09
- 2,001-3,000 work hours: $30.38, $39.13, $47.87
- 3,001-4,000 work hours: $32.17, $41.82, $51.45

10/30/2014

### Underground Laborer Open Cut, Class V
Pipe Layer

<table>
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<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and Half Hourly</th>
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</table>

**Apprentice Rates:**

- 0-1,000 work hours: $28.63, $36.50, $44.37
- 1,001-2,000 work hours: $29.53, $37.86, $46.17
- 2,001-3,000 work hours: $30.43, $39.20, $47.97
- 3,001-4,000 work hours: $32.22, $41.89, $51.55

10/30/2014

### Underground Laborer Open Cut, Class VI
Grouting man, top man assistant, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work & the installation and repair of water service pipe and appurtenances.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and Half Hourly</th>
<th>Double Time Hourly</th>
<th>Overtime Provision</th>
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</tbody>
</table>

**Apprentice Rates:**

- 0-1,000 work hours: $26.66, $33.55, $40.43
- 1,001-2,000 work hours: $27.43, $34.70, $41.97
- 2,001-3,000 work hours: $28.20, $35.86, $43.51
- 3,001-4,000 work hours: $29.73, $38.16, $46.57

10/30/2014

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Official Request #: 1057
Requestor: Michigan Technological University
Project Description: Remove and replace the elevator in the Academic Office Building
Project Number: 05-16-02
County: Houghton

Official Rate Schedule

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### Classification

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Last Updated</th>
<th>Straight Hourly</th>
<th>Time and a Half Time</th>
<th>Double Time</th>
<th>Overtime Provision</th>
</tr>
</thead>
</table>

#### Underground Laborer Open Cut, Class VII

Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc.

LAUC-Z5-7  
$28.61  
$36.47  
$44.33  
X  
X  
X  
X  
X  
X  
D  
Y  
10/30/2014

#### Apprentice Rates:

- **0-1,000 work hours**:  
  - $25.25  
  - $31.44  
  - $37.61

- **1,001-2,000 work hours**:  
  - $25.92  
  - $32.44  
  - $38.95

- **2,001-3,000 work hours**:  
  - $26.59  
  - $33.44  
  - $40.29

- **3,001-4,000 work hours**:  
  - $27.94  
  - $35.47  
  - $42.99