



**A Prime Community**

## **2022 WELCOMING & WAYFINDING SIGN PROJECT**

**THIS RFP DEADLINE HAS BEEN EXTENDED FROM AUGUST 5, 2022 at 10:30 AM TO SEPTEMBER 23, 2022 AT 10:30 AM. THE PROJECT COMPLETION DATE HAS BEEN EXTENDED FROM DECEMBER 31, 2022 TO FEBRUARY 28, 2023. PLEASE REFER TO THE ADVERTISEMENT FOR BIDS.**

**IF PROSPECTIVE BIDDERS WOULD LIKE TO VISIT ANY OF THE FACILITIES INVOLVED, PLEASE CONTACT MELISSA MASSIE, MERIDIAN TOWNSHIP DIRECTOR OF PROJECT MANAGEMENT & OPERATIONS, AT [MASSIE@MERIDIAN.MI.US](mailto:MASSIE@MERIDIAN.MI.US) TO SCHEDULE A TIME.**

**DUE TO QUESTIONS WE HAVE RECEIVED FROM BIDDERS, PLEASE REFER TO THE "QUESTION AND ANSWER DOCUMENT" FOR ADDITIONAL INSTRUCTIONS ON HOW TO BID ON THIS RFP.**

**DEPARTMENT OF PUBLIC WORKS & ENGINEERING**

**CHARTER TOWNSHIP OF MERIDIAN**

**INGHAM COUNTY, MICHIGAN**

**CHARTER TOWNSHIP OF MERIDIAN**

**2022 WELCOMING & WAYFINDING SIGN PROJECT**

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## CHARTER TOWNSHIP OF MERIDIAN

### 2022 WELCOMING & WAYFINDING SIGN PROJECT

#### ADVERTISEMENT FOR BID

Sealed proposals will be received by the Charter Township of Meridian, Ingham County, Michigan, at the Meridian Township Clerk's Office, Municipal Building, 5151 Marsh Road, Okemos, Michigan, 48864-1198, (517) 853-4000, up to **10:30 am, local time on Friday, September 23, 2022** for the removal and installation of new wayfinding signage in Meridian Township, after which time, proposals will be publicly opened and read aloud. **If prospective bidders would like to visit any of the facilities involved, please contact Melissa Massie, Meridian Township Director of Project Management & Operations, at [massie@meridian.mi.us](mailto:massie@meridian.mi.us) to schedule a time. We are happy to assist bidders with inspecting existing electrical or anything else related to this RFP.**

Bids are solicited on unit price basis. The work involves the following major bid items:

1. Removal and disposal of existing signs (refer to the Appendix C, Sign Message Schedule, for a listing of existing signs that need to be removed).
2. Removal of existing letters on Public Safety building (refer to page 6 of Appendix C, Sign Message Schedule)
3. Relocation and restoration of the Historical Village sign (refer to page 9 of Appendix C, Sign Message Schedule).
4. Construction, fabrication and installation of custom welcoming and wayfinding signs (Appendices A, B and C). **Please provide a bid line item for each sign proposed in the sign message schedule (Exhibit C) as the Township will be paying for these signs from two different accounts.**

**Please refer to the "Question and Answer Document" for additional instructions on how to bid on this RFP.**

5. Installation of vinyl graphics on glass doors at both the Municipal Building and the Police Department (refer to pages 5 and 7 of Appendix C, Sign Message Schedule).
6. Repair or replace any and all damaged landscaping, sidewalks or parking lot areas if damaged during by installing contractor during this project.
7. Provide a full 5-year manufacturer's warranty which covers 100% material and 100% labor for the life of the warranty.

Proposals shall include the furnishing of all labor, material, and equipment to complete the project.

Prevailing wage rates are required for this contract. Meridian Township policy requires vendors contracting with the Township over \$50,000 to pay employees and sub-contractors, directly upon the site of work, at least the prevailing wages and fringe benefits as determined and published by the United States Department of Labor for the Ingham County area. Please refer to prevailing wage rate tables in Appendix D.

Work on the project shall commence within ten days after issuing the Notice to Proceed, and be complete by **February 28, 2023**. Completion is defined as being constructed, tested, placed in service and the site restored.

Each proposal shall be accompanied by a certified check or a bid bond by a recognized surety company similar to a U.S. Government Standard form bid bond, in the amount of five percent (5%) of the bid, payable to the Charter Township of Meridian, Ingham County, Michigan as security for the acceptance of the contract.

The contract documents may be examined at the following locations:

- Meridian Township, Department of Public Works & Engineering, 5151 Marsh Rd, Okemos, MI 48864-1198
- Builders Exchange of Lansing & Central MI, 1240 E. Saginaw St, Lansing, MI 48906-5522
- McGraw-Hill Construction Dodge, 2521 E. Michigan Ave, Lansing, MI 48912-4010

Copies of the contract documents for the work may be obtained from the Department of Public Works & Engineering at 5151 Marsh Road, Okemos, Michigan for no fee.

Questions regarding this contract may be addressed to Meridian Township Director of Project Management & Operations, Melissa Massie, [massie@meridian.mi.us](mailto:massie@meridian.mi.us).

In submitting this bid, it is understood that the right is reserved by the owner to reject any or all bids, to award the Contract to other than the low bidder, to award separate contracts for each project and/or phase, to waive irregularities and/or formalities, and in general, to make award in any manner deemed by it, in its sole discretion, to be in the best interest of the Owner.

## **INSTRUCTIONS TO BIDDERS**

### **1. PROPOSALS**

Proposals must be made upon the forms provided, without modifications or changes and all other data submitted as required.

The proposal must be enclosed in a sealed envelope marked "**Bid Proposal - 2022 WELCOMING & WAYFINGING SIGN PROJECT**" clearly indicating the name and address of the bidder, and filed at the place and by the time specified in the Advertisement.

### **2. BASIS OF PROPOSALS**

Proposals are solicited on the basis of unit prices for the entire work of the contract.

The right is reserved by the Owner to reject any and all bids, to award the Contract to other than the low bidder, to award separate Contracts for each project and/or phase, to waive irregularities and/or formalities, and in general, to make award in any manner deemed by it, in its sole discretion, to be in the best interest of the Owner.

### **3. BID DEPOSITS**

Each proposal shall be accompanied by a certified check, or bid bond from a recognized surety company, in the amount of five percent (5%) of the total amount of the bid, payable to the order of the Owner, to be forfeited to the Owner in case of failure on the part of the successful bidder to enter into the attached form of Contract to do the work covered by such Proposal at the price and within the time stated therein. The bid deposit of all except the successful bidder will be returned within four weeks after opening of bids. The bid deposit of the successful bidder will be returned within 48 hours after the executed Contract has been finally approved by the Owner.

### **4. QUALIFICATION OF BIDDERS**

It is the intention of the Owner to award the Contract(s) to contractor(s) fully capable, both financially and as regards experience to perform and complete all work in a satisfactory manner. Evidence of such competency must be furnished, including a listing of similar projects which the bidder has satisfactorily undertaken and completed.

### **5. INTERPRETATION OF DOCUMENTS**

If the bidder is in doubt as to the true meaning of any part of the plans, specifications or Contract Documents, he may submit to the Engineer a written request for an interpretation thereof. Any interpretation made in response to such query will be mailed or duly delivered to each prospective bidder. The Owner will not be responsible for any other explanation or interpretation of the Contract Documents.

## **INSTRUCTIONS TO BIDDERS**

### **6. REQUIREMENT OF SIGNING BIDS**

Bids which are not signed by the individual making them shall have attached thereto a power of attorney evidencing authority to sign the bid in the name of the person for whom it is signed.

Bids, which are signed by a partnership, shall be signed by all of the partners or by an attorney-in-fact. If signed by an attorney-in-fact, there shall be attached to the bid a power of attorney evidencing authority to sign the bid, executed by the partners.

Bids which are signed for a corporation shall have the correct corporate name thereof and the signature of the president or other authorized officers of the corporation manually written below the corporate name following the word "By". If such a bid is manually signed by an officer other than the president of the corporation, a certified copy of a resolution of the board of directors evidencing the authority of such official to sign the bid shall be attached to it. Such a bid shall also bear the attested signature of the secretary of the corporation and the impression of the corporate seal.

### **7. EXECUTION OF AGREEMENT**

The bidder to whom an award is made will be required to enter into the written contract included herein, within ten (10) calendar days after being notified of the acceptance of his bid and receipt by him of the copies of the documents to be executed. In case of failure to comply with this requirement, he may be considered to have abandoned all his rights and interests in the award and his certified check or amount of bidder's bond may be declared to be forfeited to the Owner and the Contract may be awarded to another bidder.

### **8. INSURANCE (Ref. General Conditions – GC.2)**

The contractor will be required to carry Commercial General Liability, Worker's Compensation Insurance & Employer's Liability, Automobile Liability, Builders Risk Insurance, Owner's Protective Liability in the amounts specified in the General Conditions. Certificates of such insurance must be attached to each copy of the executed Contract Documents.

### **9. BONDS (Ref. General Conditions – GC.1)**

The successful bidder will be required to furnish for each set of executed Contract Documents and conformed copies thereof an original completed Performance Bond, and Labor and Material Bond with surety acceptable to the Owner as set forth in the General Conditions.

## **INSTRUCTIONS TO BIDDERS**

### **10. BIDDER'S RESPONSIBILITY FOR EXAMINING PLANS AND SITE**

At the time of opening bids, each bidder will be presumed to have made a personal investigation of the site of the work and of existing structures, and to have read and be thoroughly familiar with the plans, specifications and Contract Documents (including all addenda). He shall determine to his own satisfaction the conditions to be encountered, the nature of the work, difficulties involved in completing the Contract and all factors affecting the work proposed under this Contract.

The bidder to whom this contract is awarded will not be entitled to any additional compensation by reason of his failure to fully acquaint himself with the conditions at the site or by his failure to fully examine the plans, specifications and Contract Documents.

### **11. NON-DISCRIMINATION IN EMPLOYMENT**

The contractor shall adhere to all applicable Federal, State and local laws, ordinances, rules and regulations prohibiting discrimination with regards to employees and applicants for employment. The contractor, as required by law, shall not discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, marital status, or handicap that is unrelated to the individual's ability to perform the duties of a particular job or position. Breach of this section shall be regarded as a material breach of this Contract.

### **12. PREVAILING WAGES**

Per Meridian Township Prevailing Wage Guidelines, all Township contracts with a value greater than fifty-thousand dollars (\$50,000) must comply with the relevant Prevailing Wage rates current at the time of the contract. This requirement includes the prime Contractor, as well as, all sub-contractors. Certified Payroll, on standard US Department of Labor forms, shall be submitted for the prime Contractor and all sub-contractors. Any employees found to be paid less than the relevant wage rate shall be made whole up to the prevailing wage prior to the release of any retainage on the contract. The wage rates for this contract can be found in the attached Appendices.

**2022 WELCOMING & WAYFINDING SIGN PROJECT**

**PROPOSAL**

**TO:** Charter Township of Meridian  
5151 Marsh Road  
Okemos, MI 48864

**RE: 2022 WELCOMING & WAYFINDING SIGN PROJECT**

Board of Trustees:

The undersigned, as a bidder, hereby declares that these bids are made in good faith, without fraud or collusion with any person or persons bidding on the same Contract, that he has read and examined the Advertisement, Instruction to Bidders, Proposal, Contract, General Conditions, Supplemental Conditions, Specifications, and Plans and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to the conditions to be met in the execution of the Contract.

In submitting this bid, it is understood that the right is reserved by the Owner to reject any or all bids, to award the Contract to other than the low bidder, to award separate contracts for each project and/or phase, to waive irregularities and/or formalities, and in general, to make award in any manner deemed by it, in its sole discretion, to be in the best interest of the Owner.

It is further understood and agreed by the undersigned that any qualifying statement or conditions made to this proposal as originally published, as well as any interlineation, erasures, omissions or entered wording obscure as to its meaning, may cause the bid to be declared irregular and may be cause for rejection of the bid.

The undersigned agrees to start work within ten (10) days of issuance of the Notice to Proceed. The undersigned further agrees to complete all work covered by this Proposal to the point of use of the project by the Owner by the completion date stated in the Advertisement or within the number of calendar days stated in the Advertisement; and that for all days thereafter until final acceptance, there will be charged, as liquidated damages, the sum of \$350.00 per calendar day per project for each and every day thereafter until final acceptance.



## Scope of Work

Contractors are to remove and install new wayfinding signage for Meridian Township. Work includes removing existing signage and installing new signage including electronic message boards, signs and vinyl graphics.

1. Removal and disposal of existing signs (refer to the Appendix C, Sign Message Schedule, for a listing of existing signs that need to be removed).
2. Removal of existing letters on Public Safety building (refer to page 6 of Appendix C, Sign Message Schedule)
3. Relocation and restoration of the Historical Village sign (refer to page 9 of Appendix C, Sign Message Schedule).
4. Construction, fabrication and installation of custom welcoming and wayfinding signs (Appendices A, B and C).
5. Installation of vinyl graphics on glass doors at both the Municipal Building and the Police Department (refer to pages 5 and 7 of Appendix C, Sign Message Schedule).
6. Repair or replace any and all damaged landscaping, sidewalks or parking lot areas if damaged during by installing contractor during this project.
7. Provide a full 5-year manufacturer's warranty which covers 100% material and 100% labor for the life of the warranty.

The undersigned hereby proposes to perform everything required to be performed and to furnish all labor, materials, tools, equipment and all utility and transportation services necessary to complete in a workmanlike manner all the work to be done under this Contract, including addenda thereto, for the

**TOTAL SUM OF: \$** \_\_\_\_\_

Give the name of the Owners and dates of other projects which the Bidder has constructed or has had responsible charge of construction:

**NAME**

**DATE**

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The Bidder acknowledges that his bid is in accordance with the information contained in Addendum No. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

The Bidder is hereby reminded that the Pay Items listed under the Bidding Schedule are the only items for which he will receive payment under this Contract. In the event that lesser or greater quantities of specific Pay Items are required to complete the work and place the system in operation, the total amount bid for the specific item will be adjusted by the unit price bid to the actual quantities utilized. In the event that an error is made in extending the unit prices, the Bidder is hereby notified that the unit prices as bid, will govern in determining the Total Base Bid. It is expressly understood and agreed that the Total Base Bid is the basis for establishing the amount of Bid Security on this Proposal and for comparison of bids only and is not to be constructed as a lump sum Proposal.

The undersigned attaches hereto a certified check or bidder's bond in the sum of not less than five percent (5%) of the Total Base Bid as required by the Advertisement and Instructions to Bidders and the undersigned agrees that in case he shall fail to fulfill his obligations under this Proposal and/or shall fail to furnish bonds, as specified, the Owner may, at its option determine that the certified check or amount of said certified check or bidder's bond accompanying this Proposal has been forfeited to the Owner, but otherwise the said certified check or bidder's bond shall be returned to the undersigned upon the execution of the Contract and acceptance of the bond.

The undersigned further agrees that this proposal shall be effective for a period of sixty (60) days from the date established for opening of all bids.

Date \_\_\_\_\_ Company Name \_\_\_\_\_

By \_\_\_\_\_ Address \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

Title \_\_\_\_\_ Phone Number \_\_\_\_\_

**2022 WELCOMING & WAYFINDING SIGN PROJECT**

**CONTRACT**

**THIS CONTRACT**, dated \_\_\_\_\_, by \_\_\_\_\_ and \_\_\_\_\_ between \_\_\_\_\_, hereinafter called the "**CONTRACTOR**", and **Meridian Charter Township**, 5151 Marsh Road, Okemos, MI 48864, hereinafter called the "**OWNER**".

**WITNESSETH**, that the **CONTRACTOR** and the **OWNER** for the consideration herein agree as follows:

**ARTICLE I. SCOPE OF WORK.**

The **CONTRACTOR** shall perform everything required to be performed and shall provide and furnish all labor, materials, necessary tools, expendable equipment and all utility and transportation services required to perform and complete in a workmanlike manner all the work required for constructing the project as described in the Advertisement and Proposal and for performing all related work for the **OWNER**, required by and in strict accordance with the plans and specifications, including any and all addenda, and other Contract Documents mentioned and made a part hereof.

**ARTICLE II. THE CONTRACT PRICE.**

The **OWNER** shall pay for constructing the project complete with all labor, materials, equipment, appurtenances, surface restoration and related work in strict accord with the Plans and Specifications, ready for use, for the unit prices as listed in the Proposal and herein made a part of this Contract. Payment shall be made to the **CONTRACTOR** in accordance with and subject to the conditions specified under General Conditions.

**ARTICLE III. TIME.**

Time is of the essence in the performance of this contract. The **CONTRACTOR** agrees to start work within ten (10) days of issuance of the Notice to Proceed and to fully complete the work so as to permit use of the project by the **OWNER** within the number of calendar days or by the completion date listed in the Advertisement.

**ARTICLE IV. DELAYS AND DAMAGES.**

If the **CONTRACTOR** refuses or fails to prosecute the work, or any separate part thereof, with such diligence as will insure its substantial completion, ready for operation within the number of consecutive calendar days specified herein, or any extension thereof, or fails to complete said work within such time, the **OWNER** may, by written notice to the **CONTRACTOR**, terminate the **CONTRACTOR's** right to proceed with the work or such part of the work as to which there has been delay. In such event, the **OWNER** may take over the work and prosecute the same to completion by contract or otherwise, and the **CONTRACTOR** and his sureties shall be liable to the **OWNER** for any excess cost occasioned thereby.

If the CONTRACTOR's right to proceed is so terminated, the OWNER will take possession of and utilize in completing work such materials, appliances, and plant as may be on the site of the work and necessary therefore.

If the OWNER does not terminate the right of the CONTRACTOR to proceed, the CONTRACTOR shall continue to work, in which event the actual damages for the delay will be impossible to determine and in lieu thereof the CONTRACTOR shall pay the OWNER the sum of one thousand dollars (\$1,000.00) per day as fixed, agreed, and liquidated damages for each calendar day of delay until the work is substantially completed, ready for operation and the CONTRACTOR and his sureties shall be liable for the amount thereof.

However, the right of the CONTRACTOR to proceed shall not be terminated or the CONTRACTOR charged with liquidated damages because of any delays in the completion of the work due to unforeseeable causes beyond control and without the fault or negligence of the CONTRACTOR, including, but not restricted to acts of God, or of the public enemy, acts of the OWNER, fires, floods, epidemics, quarantine restrictions, delays of subcontractors due to such causes, if the CONTRACTOR shall, within ten (10) days from the beginning of any such delay (unless the OWNER shall grant a further period of time prior to the date of final settlement of the Contract) notify the OWNER in writing of the cause of delay and extend the time for completing the work when, in OWNER's judgement, the finding of fact justify such an extension and OWNER's findings of fact thereon shall be final and conclusive on the parties thereto.

In no event shall bankruptcy or labor disputes, or the like, either of CONTRACTOR or any of its subcontractors or suppliers, be considered as an unforeseeable cause beyond the control and without the fault or negligence of the CONTRACTOR.

**ARTICLE V. COMPONENT PARTS OF THIS CONTRACT.**

This Contract consists of the following component parts, all of which are as fully a part of the Contract as if herein set out verbatim, or, if not attached: 1) Advertisement, 2) Instructions to Bidders, 3) Proposal, 4) Addenda, 5) Contract, 6) Bonds and Insurance, 7) General Conditions, 8) Supplemental Conditions, 9) General Specifications, 10) Standard Specifications, 11) Special Provisions, 12) Plans, 13) Notice of Award, and 14) Notice to Proceed.

**IN WITNESS WHEREOF**, the parties hereto have caused this instrument to be executed in three (3) original counterparts the day and year first above written.

\_\_\_\_\_  
CONTRACTOR

WITNESS:

By: \_\_\_\_\_

\_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**CHARTER TOWNSHIP OF MERIDIAN**  
OWNER

WITNESS:

By: \_\_\_\_\_  
Dan Opsommer

\_\_\_\_\_

Title: Assistant Township Manager  
Director of Public Works & Engineering

Date: \_\_\_\_\_

**NOTICE OF AWARD**

**Dated:** \_\_\_\_\_

**TO:** \_\_\_\_\_  
\_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**CONTRACT:**    **2022 WELCOMING & WAYFINDING SIGN PROJECT**

You are notified that your Bid dated \_\_\_\_\_ for the above Contract has been considered. You are the apparent Successful Bidder and have been awarded a Contract for the **2022 Welcoming & Wayfinding Sign Project**.

The Contract Price of your Contract is: \_\_\_\_\_.

**Three** copies of each of the proposed Contract Documents accompany this Notice of Award.

You must comply with the following conditions within 10 days of the date you receive this Notice of Award.

1. Deliver to the OWNER **three** fully executed counterparts of the Contract Documents. (Each of the Contract Documents must bear your signature on page C-3.)
2. Deliver with the executed Contract Documents the Contract security (Bonds and Insurance) as specified in General Conditions (GC).
3. If not listed as the owner, president, or partner, we need a letter (on letterhead) stating the person signing contract, has permission to sign the contract.

Failure to comply with these conditions within the time specified will entitle OWNER to consider your Bid in default, to annul this Notice to Award and to declare your Bid security forfeited.

Within ten days after you comply with the above conditions, OWNER will return to you one fully executed counterpart of the Contract Documents.

**CHARTER TOWNSHIP OF MERIDIAN**

By: \_\_\_\_\_  
Dan Opsommer, Assistant Township Manager  
Director of Public Works & Engineering

**NOTICE TO PROCEED**

Dated: \_\_\_\_\_

**TO:** \_\_\_\_\_  
\_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**CONTRACT:** **2022 WELCOMING & WAYFINDING SIGN PROJECT**

You are notified that the Contract Times under the above Contract will commence to run on \_\_\_\_\_  
\_\_\_\_\_. In accordance with Article III of the Agreement, the date of Completion is \_\_\_\_\_.

Deliver to **OWNER** an acknowledged copy of this Notice to Proceed.

**CHARTER TOWNSHIP OF MERIDIAN**

By: \_\_\_\_\_  
Dan Opsommer, Assistant Township Manager  
Director of Public Works & Engineering

**ACKNOWLEDGEMENT OF ACCEPTANCE OF NOTICE TO PROCEED**

**CONTRACTOR** acknowledges acceptance of this Notice to Proceed this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

By: \_\_\_\_\_

GENERAL CONDITIONS

**GENERAL CONDITIONS**

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## GENERAL CONDITIONS

### GC.1 CONTRACT SECURITY

The Contractor shall furnish a surety bond, by a duly authorized surety company satisfactory to the Owner, in an amount equal to 100 percent (100%) of the Contract price as security for the faithful performance of this Contract. The Contractor shall also furnish a separate surety bond, by a duly authorized surety company satisfactory to the Owner, in an amount equal to 100 percent (100%) of the Contract price as security for the payment of all persons performing labor and/or furnishing materials.

The surety company writing the bid, performance, labor and material, and maintenance bond shall be: 1) acceptable to the Owner, 2) be listed in the Federal Register as published by the U.S. Department of Treasury under most recently revised Circular 570; 3) have an A.M. Best Company's Insurance reporting rating of no less than A- (Excellent); and 4) authorized to do business in the State of Michigan by the Michigan Department of Licensing & Regulatory Affairs Office of Financial and Insurance Regulations. Upon request, the Contractor shall submit evidence of such insurance.

### GC.2 CONTRACTORS' AND SUBCONTRACTORS' INSURANCE

The Contractor shall not commence work under this Contract until he/she has obtained all the insurance required under this section and such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work on his/her subcontract until all similar insurance required of the subcontractor has been so obtained and approved. Contractors and subcontractors are required to file with the Owner completed certificates of insurance, as evidence that they carry adequate insurance to comply with the requirement of this section. New Certificates of Insurance shall be furnished to the Owner at the renewal date of all policies named on these certificates.

#### A. Policies, Coverages and Endorsements

The Contractor agrees to maintain, or to cause its personnel providing services under this Contract to maintain, at its sole cost and expense or the cost and expense of his personnel, the following insurance policies, with the specified coverages and limits, to protect and insure the Owner and Contractor against any claim for damages arising in connection with Contractors responsibilities or the responsibilities of Contractors personnel under this Contract and all extensions and amendments thereto.

#### 1. **Commercial General Liability**

a.	General Aggregate	\$2,000,000
b.	Each Occurrence	\$1,000,000

Such insurance shall include, but not be limited to, coverage for:

Comprehensive form, Premises-operations, Explosion and collapse hazard, Underground hazard, Products/completed operations hazard, Contractual insurance, Broad form property damage, Independent contractor, Personal injury

#### 2. **Workers' Compensation & Employer' Liability** (if applicable)

a.	Medical & Indemnity	Statutory Requirements
b.	Bodily Injury by Accident	\$500,000 Each Accident
c.	Bodily Injury by Disease	\$500,000 Each Employee
d.	Bodily Injury by Disease	\$500,000 Policy Limit
e.	Employers Liability	\$500,000

## GENERAL CONDITIONS

### GC.2 CONTRACTORS' AND SUBCONTRACTORS' INSURANCE

#### A. Policies, Coverages and Endorsements (Cont'd.)

##### 3. **Automobile Liability**

Including hired and non-owned

Automobiles \$1,000,000 (Combined Single Limit)

Such insurance shall include, but not be limited to, coverage for:

Comprehensive form, Owned vehicles, Hired vehicles, Non-owned vehicles

#### B. Builder's Risk Insurance (Fire and Extended Coverage)

Until the project is completed and accepted by the Owner, the Contractor is required to maintain Builder's Risk Insurance (fire and extended coverage) on a 100 percent completed value basis on the insurable portion of the project for the benefit of the Owner, the Contractor, and subcontractors as their interests may appear.

#### C. Owner's Protective Liability

The Contractor shall procure and shall maintain during the life of this Contract Owner's/Contractor's Protective Liability Insurance, listing the Owner as the named insured. The minimum limit of liability shall be not less than \$1,000,000.00 per occurrence/aggregate.

#### D. Insured Parties

All policies shall contain a provision naming the Owner (and its officers, agents and employees) as Additional Insured parties on the original policy and all renewals or replacements during the term of this Contract.

#### E. Acceptable Insurance Companies

All insurance companies required by this section shall be: 1) acceptable to the Owner; 2) authorized to do business in the State of Michigan by the Michigan Department of Licensing & Regulatory Affairs Office of Financial and Insurance Regulations, and 3) have an A.M. Best Company's Insurance reporting rating of no less than A- (Excellent). Upon request, the Contractor shall submit evidence of such insurance.

#### F. Indemnification and Hold Harmless

The Contractor shall, at its own expense, protect, defend, indemnify and hold harmless the Owner and its elected and appointed officers, employees, and agents from all claims, damages, costs, lawsuits and expenses, including, but not limited to, all costs for administrative proceedings, court costs and attorney fees that they may incur as a result of any acts, omissions, or negligence of the Contractor, its subcontractors, sub-subcontractors or any of their officers, employees, or agents. This includes but is not limited to injury or death to any person or persons, including the contractors employees, and damage to property. The furnishing by the Contractor of any insurance required by this Contract, or the acceptance or approval thereof by the Owner as provided in this Contract, or otherwise, shall not diminish the Contractor's obligation to fully indemnify the Owner, its elected and appointed officers, employees, and agents as required in this section.

The Contractor shall not cancel or reduce the coverage of any insurance required by this section without providing 30-day prior written notice to the Owner. All such insurance must include an endorsement whereby the insurer shall agree to notify the Owner immediately of any reduction by

## GENERAL CONDITIONS

### **GC.2 CONTRACTORS' AND SUBCONTRACTORS' INSURANCE**

#### **F. Indemnification and Hold Harmless (Cont'd.)**

the Contractor. The Contractor shall cease operations on the occurrence of any such cancellation or reduction, and shall not resume operations until new insurance is in force.

### **GC.3 QUALIFICATION FOR EMPLOYMENT**

The Contractor shall employ competent laborers and mechanics for the work under this Contract, and shall comply with all applicable regulations of the United States Department of Labor and any other agencies having jurisdiction.

### **GC.4 PREVAILING WAGE REQUIREMENT**

Meridian Township policy requires vendors contracting with the Township over \$50,000 to pay employees and sub-contractors, directly upon the site of work. at least the prevailing wages and fringe benefits as determined and published by the United States Department of Labor for the Ingham County area. Contractors shall furnish proof satisfactory to the Township that the Prevailing Wage provisions are being complied with as part of each progress payment submission.

### **GC.5 PROGRESS SCHEDULE**

The Contractor, if requested by the Owner, immediately after being awarded the Contract, shall prepare and submit to the Owner and its representative an estimated progress schedule for the work in relation to the entire project. This schedule shall indicate the dates for the starting and completion of the various stages of construction. If the Contractor chooses to work overtime, he will be back charged for inspection. Overtime is any Township recognized holiday and/or any time other than 8:00 a.m. to 5:00 p.m., local time, Monday through Friday.

### **GC.6 ACCIDENT PREVENTION**

Precaution shall be exercised at all times for the protection of persons (including employees) and property, and hazardous conditions shall be guarded against or eliminated. The Contractor is entirely responsible for all aspects of job safety and shall execute the work under this Contract in strictest conformance with all state and local safety codes, rules and regulations.

### **GC.7 CONTRACT PRICE SCHEDULE**

The Contractor, if requested by the Owner, shall submit to the Owner a cost breakdown for the various items of the work. The schedule shall be prepared in a manner acceptable to the Owner as to both form and completeness and supported by data as necessary to substantiate its correctness.

### **GC.8 PAYMENT TO CONTRACTOR**

The Contractor shall submit semi-monthly, or at longer intervals, if he so desires, an invoice covering work previously performed for which he believes payment, under the Contract terms, is due, and shall deliver said invoice to the Owner. Each request for payment shall be accompanied by a statement certifying that all bills for labor and materials have been paid up for all previous pay requests. Contractors shall furnish proof satisfactory to the Township that the Prevailing Wage provisions are being complied with as part of each progress payment submission.

## GENERAL CONDITIONS

### **GC.8 PAYMENT TO CONTRACTOR (Cont'd).**

Each progress payment request shall be paid within one of the following time periods, whichever is later:

- A. Thirty (30) days after the Owner has certified that the work is in place in the portion of the facility covered by the applicable request for payment in accordance with the documents.
- B. Fifteen (15) days after the Owner has received the funds with which to make the progress payment from a department or agency of the federal or state government, if any funds for the facility are to come from either of these sources.

To assure proper performance of the Contract by the Contractor, the Owner shall retain ten percent (10%) of the dollar value of all work in place until the work is fifty percent (50%) in place. After the work is fifty percent (50%) in place, additional retainage shall not be withheld unless the Owner determines that the Contractor is not making satisfactory progress, or for other specific cause relating to the Contractor's performance under the Contract. In the event of such a determination the Owner may retain up to but not to exceed ten percent (10%) of the dollar value of the work more than fifty percent (50%) in place.

Any funds retained by the Owner shall not exceed the prorated share of the Owner's matching requirement if the project is funded, in part, with federal or state funds. Any retained funds shall not be commingled with other funds of the Owner and shall be deposited in an interest-bearing account in a regulated financial institution.

At any time after ninety-four percent (94%) of the work under the Contract is in place and at the request of the Contractor, the Owner shall release the retainage plus interest, only if the Contractor provides to the Owner an irrevocable letter of credit in the amount of the retainage plus interest, issued by a bank authorized to do business in the State of Michigan, containing terms mutually acceptable to the Contractor and Owner.

Retainage shall be released to the Contractor together with the final progress payment.

Owner and Contractor agree that disputes concerning retainage, at the option of the Owner, shall be submitted to the decision of the agent as provided in Section 4 of Act 524 of the Michigan Public Acts of 1980 (MCLA 125.1564; MSA 5.2949 (104)) and that interest earned on retainage shall be released to the Contractor together with the final progress payment except as provided in said Section 4 of 1980 PA 524.

The final progress payment request by the Contractor shall include:

- A. A final invoice in a form satisfactory to the Owner.
- B. A sworn statement certifying that all bills for labor and materials have been paid by the Contractor.
- C. A sworn statement waiving any further claims (other than the final payment, retainage and interest, if any) by the Contractor against the Owner.
- D. A certificate from Contractor's bonding company approving issuance of final payment.

## GENERAL CONDITIONS

### **GC.8 PAYMENT TO CONTRACTOR (Cont'd.)**

All payments shall take due account of additions to or deductions from the Contract price as herein provided.

The acceptance by the Contractor of payment on the final progress payment request shall be conclusive evidence of Contractor's acceptance and approval of estimates, accounting and deductions, and of full payment by the Owner for all work, labor, materials and services done or furnished hereunder, and a full satisfaction, discharge, release and waiver of all claims and demands of or on behalf of the Contractor, its agents or employees against the Owner arising out of this agreement.

### **GC.9 SUBCONTRACTING**

The Contractor shall not award any work to any subcontractor, supplier, manufacturer or fabricator without prior written approval of the Owner, which approval will not be given until the Contractor submits a written statement to the Owner concerning the proposed award to the subcontractor. Said statement shall contain such information as the Owner may require.

The Contractor shall be as 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 the acts and omissions of persons directly employed by him. All sub-contracts entered into by the Contractor shall contain the provision with respect to the prevailing wage requirement Which states all contractors and sub-contractors engaged in the performance of service or work for the Township to, at the request of the Township, furnish proof satisfactory to the Township that the prevailing wage provisions are being complied with.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and other Contract documents insofar as applicable to the work of the subcontractors, and to give the Contractor the same power of terminating any subcontract that the Owner may exercise over the Contractor under any provision of the Contract documents.

Nothing contained in this Contract shall create any contractual relation between any subcontractor and the Owner.

### **GC.10 ASSIGNMENTS**

The Contractor shall not assign the whole or any part of this Contract or any monies due or to become due hereunder without written consent of the Owner. In case the Contractor assigns all or any part of any monies due or to become due under this Contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and to any monies due or to become due to the Contractor shall be subject to prior liens of all persons, firms and corporations for services rendered or materials supplied for the performance of the work called for in this Contract.

### **GC.11 EXTRAS**

Except as otherwise herein provided, no charge for any extra work or materials will be allowed unless the same has been ordered in writing by the Owner and the price stated in such order.

## GENERAL CONDITIONS

### **GC.12 CHANGES IN WORK/PAYMENT ADJUSTMENTS**

Adjustments, if any, in the amounts to be paid by the Contractor by reason of changes in, additions to, or deductions from the work to be performed or the materials to be furnished under this Contract, shall be made on the basis of the acceptable unit prices or lump sums submitted by the Contractor covering such changes, additions or deductions.

Failing an acceptable lump sum or unit price basis for extra work caused by changes or additions, the Contractor may be directed to proceed with extra work on the basis of actual total cost of:

- A. Labor, including foremen (including fringe benefits);
- B. Materials entering permanently into the work;
- C. The ownership or rental cost of construction plant and equipment during the time of use on the extra work at a rate not to exceed AGC rates;
- D. Power and consumable supplies for the operation of power equipment;
- E. Insurance;
- F. Social Security and unemployment contributions.

To the cost of the six items above, there shall be added a fixed fee, to be agreed upon but not to exceed fifteen percent (15%) of the actual cost of the work. The single fee shall be compensation to both the Contractor and/or subcontractor to cover the cost of supervision, overhead, bond, profit and any other general expenses.

Failing an acceptable lump sum or unit price basis for adjustment for any decrease in work caused by changes or deductions, the amount of such adjustment may be determined on a similar basis to that described for extra work, with the Contractor furnishing all pertinent cost data from his/her books and records that may be available and necessary for determination of the amount of adjustment.

All changes in, additions to, or deductions from the work specified shall be made only by written order by the Owner or by an authorized representative of the Owner. No claim for extra work will be allowed, unless ordered in writing as above stated, and the claim therefore presented in writing by the Contractor on or before the fifth (5th) day of the month following that in which the work was done.

### **GC.13 TIME OF MAKING CLAIMS**

If the Contractor shall claim compensation or extension of time for any losses, damages, or delays sustained by reason of the acts of the Owner or its agents or other causes, he/she shall make a written statement of the nature of the loss, damage, or delay sustained to the Owner, within ten (10) days after the sustaining of such loss, damage, or delay. At the time of delivery and as a part of the Contractor's Declaration as hereinafter provided, the Contractor shall file with the Owner an itemized statement of the details and amounts of the loss, damage, or delay, and unless the statement shall be made as thus required, the Contractor's claim for compensation or extension of time shall be forfeited and invalidated, and he/she shall not be entitled to payment or extension of time on account of any such loss, damage or delay.

## GENERAL CONDITIONS

### **GC.14 MATERIALS, SERVICES, AND FACILITIES**

It is understood that except as otherwise specifically stated in the Contract documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature and all construction facilities whatsoever necessary to execute, complete, and deliver the work within the specified time.

Any work necessary to be performed after regular working hours, or Sundays and legal holidays, shall be performed without additional expense to the Owner.

### **GC.15 TERMINATION FOR BREACH**

In the event that any of the provisions of this Contract are violated by the Contractor or by any of his subcontractors, the Owner may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract, such notice to contain the reasons for terminating the Contract, and unless within ten (10) days after the serving of such notice upon the Contractor, the violation shall cease and satisfactory arrangements for correction be made, the Contract shall cease and terminate. In the event of a termination of the Contract, the Owner shall immediately serve notice thereof upon the Surety and the Contractor, and the Surety shall have the right to take over and perform the Contract. However, if the Surety does not commence performance thereof within 30 days from the date of mailing said Notice of Termination to such Surety, the Owner may take over the work and prosecute the same to completion by contract for the account and at the expense of the Contractor. The Contractor and his Surety shall be liable to the Owner for any excess cost incurred by the Owner in completing the work, and Owner may take possession of and utilize in completing the work, all materials, appliances and plants as may be on the site of the work and necessary therefore.

### **GC.16 OWNER'S RIGHT TO WITHHOLD CERTAIN AMOUNTS AND MAKE APPLICATION THEREOF**

The Owner may withhold a sufficient amount of any payment otherwise due to the Contractor to cover:

- A. Payments that may be past due and payable for just claims for labor, materials, or equipment furnished in and about the performance of the work on the project under this Contract.
- B. For defective work not remedied.
- C. For failure of the Contractor to make proper payments to his subcontractors.

The Owner shall disburse and shall have the right to act as agent for the Contractor in disbursing such funds as have been withheld pursuant to this paragraph to the party or parties who are entitled to payment therefrom. Any payment so made by the Owner shall be considered as a payment made under the Contract by the Owner to the Contractor. The Owner will render to the Contractor a proper accounting of all funds disbursed in behalf of the Contractor.

### **GC.17 SUPERINTENDENCE**

The Contractor shall give his/her personal superintendence to the work or have a competent foreman or superintendent, satisfactory to the Owner, on the worksite at all times during work progress, with authority to act for the Contractor.

## GENERAL CONDITIONS

### **GC.18 NOTICE AND SERVICE THEREOF**

Where in any of the Contract documents there is any provision in respect to the giving of any notice, such notice shall be deemed to have been given; as to the Owner, when written notice shall be delivered to the Owner, or shall have been placed in United States mails with first-class postage pre-paid addressed to the chief executive officer of the Owner at the place where the bids or proposals for the Contract were opened; as to the Contractor, when a written notice shall be delivered to the chief representative of the Contractor, at the site of the project or by mailing such written notice in the United States mails with first-class postage pre-paid addressed to the Contractor at the place stated in the papers prepared by him to accompany his proposal as to the address of his permanent place of businesses; as to the Surety, when a written notice is placed in the United States mails with first-class postage pre-paid addressed to the Surety at the home office of such Surety or to its agent or agents who executed bonds in behalf of such surety.

### **GC.19 COMPLIANCE WITH LAW, APPLICABLE LAW, AND VENUE**

The Contractor shall comply with all applicable Federal, State, County, and Municipal laws, ordinances, rules and regulations.

This contract shall be construed according to the laws of the State of Michigan.

The venue for the bringing of any legal or equitable action under this contract shall be the County of Ingham, of the State of Michigan. In the event that any action is brought under this Contract in Federal Court, the venue for such action shall be the Federal Judicial District of Michigan, Western District, Southern Division.

### **GC.20 PERMITS**

The Township will secure and pay for the Building Permit from the Meridian Township Building Department. All other permits or licenses which may be needed for prosecution of the work are to be obtained by the Contractor at the Contractor's expense.

### **GC.21 ROYALTIES AND PATENTS**

The Contractor shall pay for all royalties and patents, and shall defend all suits or claims for infringement on any patent right, and shall save and hold the Owner harmless from loss on account thereof.

### **GC.22 INSPECTIONS**

The Owner and its representative shall at all times have access to the work wherever it is in preparation or progress and the Contractor shall provide facilities for such access and for inspection.

The Owner and/or its representative shall have the right to reject materials and workmanship which are defective, or require their correction. Work on the project may be ordered terminated until correction is made. Rejected workmanship shall be satisfactorily corrected, and rejected materials shall be removed from the premises without charge to the Owner. If the Contractor does not correct condemned work and remove rejected materials within a reasonable time, fixed by written notice, the Owner may remove them and charge the expense to the Contractor.

Should it be considered necessary or advisable by the Owner at any time before final acceptance of



## GENERAL CONDITIONS

### **GC.22 INSPECTIONS (Cont'd.)**

the entire work to make an examination of work already completed, by removing or tearing out same, the Contractor shall on request promptly furnish all necessary facilities, labor and materials. If the work is found to be defective in any material respect, due to fault of the Contractor or his/her subcontractors, he/she shall defray all the expenses of examination and of satisfactory reconstruction. If, however, the work is found to meet the requirements of the Contract, the actual cost of labor and material necessarily involved in the examination and replacement, plus 15 percent (15%) shall be allowed the contractor.

### **GC.23 CORRECTION OF WORK AFTER FINAL PAYMENT**

Neither the final payment nor any provision in the Contract documents nor partial or entire occupancy of the premises by the Owner shall relieve the Contractor of the responsibility for negligence or faulty materials or workmanship within the extent and period provided by law, and, upon written notice, he/she shall repair any defects due thereto and pay for any damage due to other work resulting therefrom, which shall appear within **one year** after date of completion and acceptance, or as noted in Technical Specifications.

### **GC.24 PROTECTION OF WORK**

The Contractor shall continuously maintain adequate protection of all his/her work from damage and shall protect the Owner's and adjacent property from injury arising in connection with this Contract, and shall be responsible for all damage and/or injury caused by or arising out of his operations.

### **GC.25 USE OF JOB SITE**

The Contractor shall confine his/her equipment apparatus, the storage of materials and operations of his/her workmen to limits indicated by law, ordinances, permits or directions of the Owner and shall not encumber the premises with his materials.

### **GC.26 "OR EQUAL" CLAUSE**

Whenever in any of the Contract documents an article, material or equipment is defined by describing a proprietary product, or by using the name of a manufacturer or vendor, the term "or equal" if not inserted, shall be implied. The specific article, material or equipment mentioned shall be understood as indicating the type, function, minimum standard of design, efficiency, and quality desired and shall not be construed in a manner so as to exclude manufacturer's products of comparable quality, design and efficiency. The Contractor shall comply with the requirement of the Contract documents relative to the Owner's approval of materials and equipment before they are incorporated in the project.

### **GC.27 PLANS AND SPECIFICATIONS**

The Contractor shall keep on the worksite a copy of the drawings and specifications and shall at all times give the Owner access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like affect as if shown or mentioned in both. In case of difference between drawings and specifications the specifications shall govern. In any case of discrepancy in the figures, drawings or specifications, the matter shall be immediately submitted to the Owner, without whose decision said discrepancy shall not be adjusted by the Contractor, save only at his/her own risk and expense.

## GENERAL CONDITIONS

### **GC.27 PLANS AND SPECIFICATIONS (Cont'd.)**

The Owner shall furnish from time to time such detail drawings and other information as he/she may consider necessary, unless otherwise provided. The Contractor shall keep such drawings at the site of the work.

### **GC.28 OWNER'S RIGHT TO DO WORK**

If the Contractor should neglect to prosecute the work properly or fail to perform any provision of this Contract, the Owner three (3) days after given written notice to the Contractor and his/her Surety may, without prejudice to any other remedy the Owner may have, make good such deficiencies and may deduct the cost thereof from the payment due to the Contractor.

### **GC.29 CLEANING UP**

The Contractor shall at all times keep the premises free from accumulations of waste material or rubbish caused by his/her employees or work, and at the completion of the work he/she shall remove all his/her rubbish from and about the work and all his/her tools, equipment, scaffolding and surplus materials and shall leave his/her work clean and ready for use. In case of dispute, the Owner may remove the rubbish and surplus materials and charge the cost to the several Contractors in proportion to the amounts as shall be determined to be just.

### **GC.30 REPORTS, RECORDS AND DATA**

The Contractor and each of his/her subcontractors shall submit to the Owner such schedules of quantities, costs, progress schedules, payrolls, reports, estimates, records, and other data as the Owner may request concerning work performed or to be performed under this Contract.

### **GC.31 NON-DISCRIMINATION IN EMPLOYMENT**

The Contractor shall adhere to all applicable Federal, State and local laws, ordinances, rules and regulations prohibiting discrimination with regards to employees and applicants for employment. The Contractor, as required by law, shall not discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions or privileges of employment, or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, marital status, or handicap that is unrelated to the individual's ability to perform the duties of a particular job or position. Breach of this section shall be regarded as a material breach of this Contract.

### **GC.32 DEFINITIONS**

The following terms as used in these Contract documents are respectively defined as follows:

- |     |                 |  |
|-----|-----------------|--|
| (a) | "Contractor"    | The person, firm or corporation to whom the within Contract is awarded by the Owner and who is subject to the terms hereof.        |
| (b) | "Subcontractor" | A person, firm or corporation other than a Contractor, supplying labor and materials or labor for work at the site of the project. |

GENERAL CONDITIONS

**GC.32 DEFINITIONS** (Cont'd.)

- (c) "Project" The total construction proposed by the Owner to be constructed in part or in whole pursuant to the within Contract.
- (d) "Work on the Project" Work to be performed, including work normally done, at the location of the project.
- (e) "Surety" Any person, firm or corporation that has executed, as surety, the Contractor's performance and/or labor and material bonds securing the attached Contract.
- (f) "Owner" The public body or authority for whom the work is to be performed and as identified in the advertisement and proposal.
- (g) "Engineer" The Director of Public Works and Engineering for the Charter Township of Meridian or his authorized representative.

## **GENERAL SPECIFICATIONS**

### **INDEX**

GS.1	Definition
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### **GS.1 DEFINITION**

The Contractor shall furnish all materials specified herein and shown on the plans and required to be incorporated in the work of the Contract. He shall furnish all labor, construction equipment, tools, supplies and facilities required to construct the elements designated by the Contract documents and shall construct all of the designated elements complete and in full conformance with the requirements of these documents. He shall comply with all regulatory provisions of the Contract, General Conditions and the Specifications.

### **GS.2 SEQUENCE OF WORK**

The Contractor shall, if requested by the Owner, before commencing work, submit to the Engineer a complete schedule of all work to be conducted. All work shall be conducted in accordance with such schedule as is approved by the Engineer.

No work will be allowed at the site prior to 7:00 a.m. nor after 7:00 p.m., or dusk, of any working day. No work will be allowed on Sundays with the exception of work necessitated by an emergency.

## GENERAL SPECIFICATIONS

### **GS.3            Not Used**

### **GS.4            QUALITY OF MATERIALS AND EQUIPMENT FURNISHED**

All materials and equipment furnished by the Contractor hereunder shall be new and conform to specifications herein.

Materials, supplies and equipment, whether furnished by the Contractor or the Owner, shall be stored at the site of the work in such manner as not to interfere with traffic, convenience to public or other Contractors on the site or in the vicinity. The Contractor shall be responsible for any damage caused to new or existing structures by reason of such storage or handling of materials, supplies or equipment.

Flammable materials in portable containers are not to be stored overnight on the site. This includes, but is not limited to, gasoline and diesel fuel for use in construction machinery. Portable containers suitably protected, will be allowed overnight at the site, if confined to permanent tanks which are a normal part of the construction machinery.

Where the Contractor is required to do work within rights of way under the jurisdiction of governmental bodies, he shall meet the requirements of said governmental bodies for work and storage within their jurisdiction. Such requirements must be met as a minimum requirement, and if the specifications given herein impose further limitation on the work, they shall also be met as the required work standard.

The Contractor's attention is directed to the Ingham County Road Commission permit specifications, Section 5. Restoration and Maintenance of Right-Of-Way (e.) for dust control requirements.

### **GS.5            CARE OF EXISTING STRUCTURES**

The Contractor shall be solely responsible for any damage to any existing underground services or structures, or to structures and roadway above ground caused by his operations or those of his subcontractors and suppliers.

### **GS.6            CARE OF NEW STRUCTURES**

The Contractor shall use every reasonable precaution to prevent injury to the new structures being constructed hereunder. He shall be responsible to correct all injury or damage resulting from his operations and/or occurring while the work is under his supervisory control. He shall furnish and install such guards, coverings and other protection as may be needed to insure that the structures remain undamaged prior to completion of the entire work.

In the event damage does occur to the finished portions of the work, or to the work in progress, the Contractor shall take such corrective action and measures as may be necessary to repair the damage to the satisfaction of the Engineer.

**GS.7            EXISTING PUBLIC UTILITIES**

The Contractor shall conduct his operations so as not to damage any existing utility. The Contractor shall correct, at his own expense, any injury that may be caused by him during his operations or injury caused during the operations of his subcontractors or suppliers.

The Contractor shall be responsible for coordinating repair, relocation or repair of existing public and private utilities with the appropriate utility or owner. No extra payment will be allowed for repairs.

If the Contractor desires, or is required by the utility companies, to relocate any power or telephone poles to facilitate his work, any expense encountered from such relocation shall be borne by the Contractor.

**GS.8            PROTECTION OF TREES AND SHRUBS**

All trees and shrubs encountered along the route of the project shall be protected from damage by the Contractor and saved from harm resulting from any of his operations or operations of his subcontractors and suppliers.

**GS.9            Not Used**

**GS.10           SAFETY PRECAUTIONS**

During the progress of the work, the Contractor shall maintain adequate facilities for the protection and safety of all persons and property. The Contractor and all his subcontractors and suppliers shall comply with the "Construction Health and Safety Standards" as published by the Construction Safety Standards Commission of the State of Michigan and to all other local, state and federal laws, ordinances, rules and regulations pertaining to safety of persons or property.

**GS.11           SANITARY REQUIREMENTS**

The Contractor shall provide adequate sanitary facilities for all persons employed on this Project. The sanitary facilities shall conform in every way to the requirements of the "Construction Health and Safety Standards" as published by the Construction Safety Standards Commission of the State of Michigan.

**GS.12           UTILITIES**

The Contractor shall make all necessary arrangements for the provision of all utility services required to prosecute the work under this Contract. The Contractor shall pay the costs for such connections and service. Where the Owner has utility service at the site, the Contractor may obtain service by connection to the Owner's service, subject to reasonable regulation of its use and satisfactory agreement as to charges. In the event that the Contractor's use of any or all of the Owner's utility services causes the Owner to have an inadequate supply of such service, the Contractor shall disconnect said service and provide his own separate supply at no cost to the Owner.

## GENERAL SPECIFICATIONS

### **GS.12 UTILITIES** (Cont'd.)

All utility services shall be inspected by and meet the requirements of the applicable local codes and governmental bodies.

### **GS.13 DRAINAGE**

The overloading or obstructing of existing drainage facilities shall not be permitted, and the Contractor shall be solely responsible for damages caused to such existing drainage facilities by his operations.

### **GS.14 WINTER CONSTRUCTION**

The Engineer shall have authority over approving the prosecution of work which is proposed to be done during the winter months. The Contractor shall provide adequate weather protection, temporary heating and take any other measures which are necessary to insure that work performed during the winter months is properly installed and protected against damage from freezing.

### **GS.15 USE OF FACILITIES BEFORE FINAL COMPLETION**

The Owner shall have the right to make use of, during the construction period, such portions of completed and acceptably tested facilities as he may find practicable. Such use by the Owner shall not relieve the Contractor from responsibility for any defective work which may be subsequently discovered.

### **GS.16 TEST OF MATERIALS**

All materials failing to meet the requirements of the specifications, as determined by test or otherwise, shall be rejected and not used in the work. Materials, if rejected at the site, shall be immediately removed therefrom and shall not be used in the work.

### **GS.17 OTHER WORK**

The Contractor shall cooperate with other Contractors on the site or adjoining work to the end that the entire Project may proceed with the utmost harmony and with a minimum of delay.

Where the work under this Contract is to involve work completed under other contracts or existing facilities or structures, the Contractor shall investigate the condition of such other work or facility to determine its suitability for incorporation into the work of this Contract. Any defect or discrepancy in other work of facility making it unsuitable for proper execution of this Contract shall be immediately reported to the Owner who shall order such adjustments in the work of the project as necessary for proper completion, and unless such defect or discrepancy is reported promptly, the Contractor shall be solely responsible for any adjustments in the work as shall be found necessary to properly complete the work on this project.

### **GS.18 Not Used**

GENERAL SPECIFICATIONS

**GS.19            COMPLETE WORK REQUIRED**

It is the intent of the Contract documents to provide that the Project to be constructed under this Contract will be complete and ready for use. Any minor items not specifically called for on the plans or specifications, but which are clearly necessary, are to be included.

**GS.20            Not Used**

**GS.21            Not Used**

**GS.22            WARRANTY**

All work shall be warranted as specified in the Technical Specifications.



**TECHNICAL SPECIFICATIONS  
2022 WELCOMING & WAYFINDING SIGN PROJECT**

- PART 1 GENERAL**
- 1.1 Introduction**
  - 1.2 General**
  - 1.3 Required Experience**
  - 1.4 Familiarity with Project Premises and Conditions**
  - 1.5 Submittal Requirements**
  - 1.6 Pre-Installation Meeting**
  - 1.7 Warranty**
- PART 2 EXECUTION**
- 2.1 Installation**

**PART 1 - GENERAL**

**1.1 INTRODUCTION**

A. Overview and Statement of Design Intent

Meridian Township is issuing this bid in an effort to identify a qualified architectural signage fabricator who can deliver the fabrication and installation of a custom wayfinding signage program including township identification signs and municipal campus wayfinding. Fabrication and installation and will need to be completed by **February 28, 2023**.

B. Owner

Meridian Township  
5151 Marsh Rd  
Okemos, MI 48864

Melissa Massie, Director of Project Management & Operations

Cell: 517-803-1768

Email: [massie@meridian.mi.us](mailto:massie@meridian.mi.us)

Dan Opsommer, Assistant Township Manager

Director of Public Works and Engineering

Cell: 517-281-6034

Email: [opsommer@meridian.mi.us](mailto:opsommer@meridian.mi.us)

C. Designer

Corbin Design  
415 S. Union Street  
Traverse City, MI 49684  
Phone: 231-947-1236

Project Manager: Moira O'Polka

Cell: 231-360-5295

Email: [moira@corbindesign.com](mailto:moira@corbindesign.com)

Lead Designer: Jeff Frank

Cell: 231-313-7895

Email: [jeff@corbindesign.com](mailto:jeff@corbindesign.com)

## TECHNICAL SPECIFICATIONS-SIGNS

### 1.2 GENERAL

- A. Removal and disposal of existing signs (refer to the Appendix C, Sign Message Schedule, for a listing of existing signs that need to be removed).
- B. Removal of existing letters on Public Safety building (refer to page 6 of Appendix C, Sign Message Schedule)
- C. Relocation and restoration of the Historical Village sign (refer to page 9 of Appendix C, Sign Message Schedule).
- D. Construction, fabrication and installation of custom welcoming and wayfinding signs (Appendices A, B and C). **Please provide a bid line item for each sign proposed in appendix C as the Township will be paying for these signs from several different accounts.**
- E. Installation of vinyl graphics on glass doors at both the Municipal Building and the Police Department (refer to pages 5 and 7 of Appendix C, Sign Message Schedule).
- F. Repair or replace any and all damaged landscaping, sidewalks or parking lot areas if damaged during by installing contractor during this project.
- G. Provide a full 5-year manufacturer's warranty which covers 100% material and 100% labor for the life of the warranty.

### 1.3 REQUIRED EXPERIENCE

The Owner requires that all Bidders must have sufficient experience in projects of this type, size and complexity in order to submit a bid for the project.

Bidders must provide the names of three projects of similar scope and size in the field of architectural exterior signage from the past 10 years. Please provide the name of the individual for each project that can discuss the working relationship with your company, together with their address, telephone number and a brief description of the project. The Owner or Designer may elect to contact these individuals as part of its evaluation of the bid.

It is the intent of the Owner to award a contract to the lowest, qualified Bidder, provided the bid has been submitted in accordance with the requirements of the bid package and does not exceed the funds available. The Owner shall have the right to waive any informality or irregularity in any bid(s) received and to accept the bid(s) which, in its judgment, is in its own best interests. The Owner reserves the right to reject any and all bids for any reason.

The criteria the Owner will use in evaluating the bids are as follows (listed in no particular order of priority):

- Reputation of the firm in completing past work (references);
- Demonstrated understanding of the project;
- Staffing and manufacturing capabilities;
- Review of sample shop drawings and sample keystroking documents;
- Quality, appearance and adherence to the specifications of the sign sample submitted;
- Bidder's schedule for the work;
- Unit sign cost; and
- Total project cost.

## TECHNICAL SPECIFICATIONS-SIGNS

### 1.4 FAMILIARITY WITH PROJECT PREMISES AND CONDITIONS

Prior to submitting a bid, the Bidder is invited to inspect the work site and its surroundings. Although the Bidder is not required to make such an inspection before bidding, for the purposes of the contract it shall be conclusively presumed that by failing to make such an inspection, the bidder has waived the right to later claim extra payment or time extensions for conditions which would have been evident had the site been inspected.

### 1.5 SUBMITTAL REQUIREMENTS

#### A. Bid Submittals: All bid submittals shall be sent to the specified recipient at the above addresses.

Note: bid forms submitted without the requested samples will be rejected. The following items are required to be submitted with the bid form:

##### 1. Typical Existing Shop Drawing

Detailed shop drawing for a previously fabricated sign that is similar in construction to Ix-2b, municipal complex identification sign. Shop drawing shall reflect the method of fabrication and materials used, mounting techniques and hardware, internal construction and illumination if necessary, and any base and below-grade details required.

Submit sample shop drawing to Designer.

##### 2. Keystroking Proofs

A sample proofing document of final production keystroking you have created for a previous project for the sign message for a sign similar in type to the Gx-1, vehicular guide. Keystroke proofs are to be in-position composition proofs. Keystrokes are to be scaled but not full sized.

Submit sample keystroking proofs to Designer.

##### 3. Bid Bond

The bid must be accompanied by a bid bond, which shall not be less than 5% of the bid. No bid will be considered unless it is accompanied by the required guaranty. The bid bond shall ensure the execution of the bid and award by the successful Bidder.

Submit bid bond to Owner.

#### B. Pre-fabrication Submittals

Upon award of contract, the successful Bidder must submit a copy of the following items to the Owner and Designer for their review prior to fabrication proceeding:

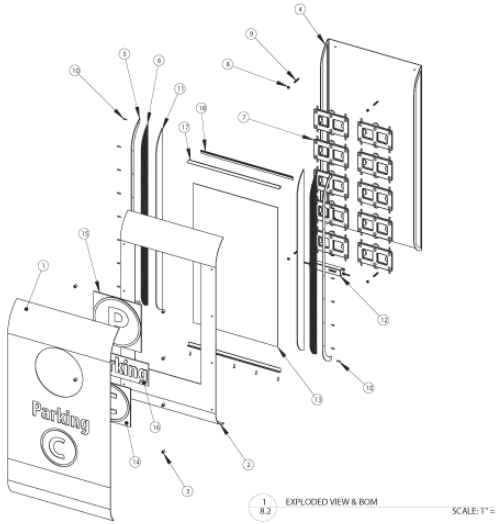
##### 1. A project schedule must be submitted prior to the development of pre-fabrication submittals and fabrication.

- a. Include all pertinent dates and milestones such as submittal delivery dates, required approval dates, fabrication dates and installation dates;
- b. Include all lead times for materials and third-party supplied items;
- c. Allow a minimum of 10 business days for Owner Representative and Designer review with at least one round of revisions;
- d. Include submittal delivery dates;

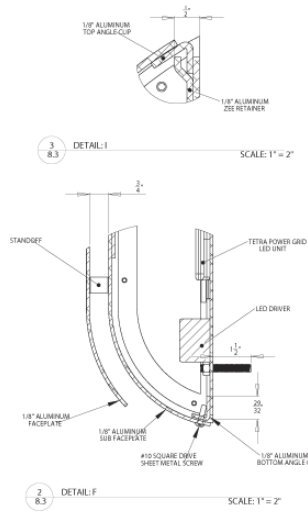
## TECHNICAL SPECIFICATIONS-SIGNS

- e. Throughout the duration of the project, the fabricator is required to maintain and update the schedule, submitting weekly.
2. Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11"x 17". Final Shop Drawings are to be stamped by an Engineer licensed in the state of the Michigan. The shop drawings for each sign type shall illustrate/describe the following:
- i. Elevations and cross sections – front, sides, top and back (if necessary); side sections; internal structure section/details; enlarged details such as of extrusions, mounting plate, etc.; with all final dimensions and call-outs for:
    - o Components – construction details/information related to individual elements
    - o Materials – color, type, gauge, and thickness (including substrates and overlays)
    - o Finishes – color, type of product, manufacturer, and sheen
    - o Fonts, graphics specifications and message fields
  - ii. Exploded view (optional) – isometric view with components, materials, and finishes.
  - iii. Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.
  - iv. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
  - v. Electrical details are to be provided for all elements that require electricity. Specific items to be listed are:
    - o Light source and/or fixture type and manufacturer
    - o Power supply (transformer)
    - o Amperage and voltage per sign
    - o Electrical service required (source)
    - o Lighting detail – provide an internal view of light fixtures, LED layout, transformers, external cut-off switch, light sensor, and timer.
  - vi. Engineering for wind load
  - vii. Removable panels (where applicable)
  - viii. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.

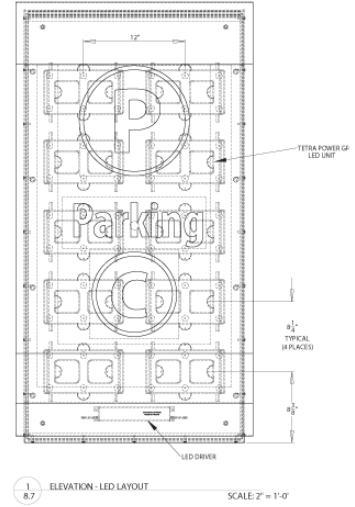
**TECHNICAL SPECIFICATIONS-SIGNS**  
**Sample drawings**



Exploded View



Cross Section



Lighting Detail

For the first release, we request that all drawings be received at one time. Future revised drawings can be received as they are completed.

3. Three (3) samples of each material (paint, vinyl, acrylic, veneer, masonry, metal, etc.) to be used on the sign using actual substrate materials. One sample will be returned, one sent to the Owner and one kept in the Designer's records.
4. A proofing document of final production keystroking for all sign messages to verify line breaks, character and word spacing, and interline spacing. The proofs are to be scaled production art files, not full sized. Each layout is to be identified with the sign number.
5. Successful Bidder must submit a schedule detailing how far in advance artwork will be required for printed maps and directories.
6. Successful Bidder must provide weekly status reports to the Owner and Designer detailing fabrication and installation progress and the expected completion schedule.

**C. After-installation Submittals**

Maintenance instructions and manuals for all sign components (lighting, paint, etc.), along with amended shop drawings, as-installed sign location plans and approved keystroke documents shall be supplied by successful Bidder to Owner upon completion of punch list items.

**1.6 PRE-INSTALLATION MEETING**

- A. Convene meeting not less than one week before starting work of this section.
- B. Review methods and procedures related to removal and installation of new signage.

**1.7 WARRANTY**

**A. Signage Warranty**

The successful Bidder is to provide a written five (5) year full replacement warranty to the Owner that all signs will be free of defects due to craft work including, but not limited to:

## TECHNICAL SPECIFICATIONS-SIGNS

1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
2. Corrosion appearing beneath paint and vinyl surfaces, on sign panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).
3. Corrosion of fasteners.
4. The assemblies not remaining true and plumb on their supports.
5. Peeling, delamination or warping ("oil canning").
6. Repair and reinstallation of signage due to failed mountings.

Successful Bidder shall also extend in writing to the Owner all manufacturers' warranties for materials and components used within the signs. It is the Successful Bidder's responsibility to obtain extended 5-year manufacturer warranties on all paint and powder coat applications.

### **B. Repair or Replacement**

Without additional cost to the Owner, the successful Bidder shall repair or replace, including installation, any defective signs or hardware which develop during the warranty period and repair any damage to other work due to such imperfections. The successful Bidder will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that will be submitted to the successful Bidder upon award of contract.

## **PART 2 - EXECUTION**

### **2.1 INSTALLATION**

#### **A. Installation Subcontractors**

If the successful Bidder will use a subcontractor to perform signage installation, the successful Bidder must provide a company representative to act as an on-site supervisor to oversee this work (see also section titled "Independent Contractor").

#### **B. Demolition**

Successful Bidder is responsible for the removal and disposal of certain signs as identified in the demolition report (see design intent drawings). The successful Bidder and subcontractors shall at all times keep the Owner's premises and the adjoining premises, driveways and streets clean of rubbish caused by the demolition operations, and at the completion of the work shall remove all rubbish, tools, equipment, temporary work and surplus materials, from and about the premises, and shall complete the installation such that replacement and finishing of sidewalk/paving surround is complete and ground cover is replaced. All rubbish and debris shall be disposed of offsite in an approved sanitary landfill. Job site shall be left safe, neat and clean at the completion of each day's operation. Successful Bidder shall be responsible for repairing or correcting damage to other contractor's work resulting from successful Bidder's work.

#### **C. Punchlist**

It is required that the successful Bidder complete a walk through with the Owner/Designer immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner.

#### **D. Site Safety and Restoration**

During the installation period, successful Bidders and subcontractors are responsible for their own safety and are expected to maintain a safe environment for pedestrians. Successful Bidders and subcontractors are to keep the Owner's premises and the adjoining premises, driveways and streets clean and clear. Job site shall be left safe, neat and clean at the completion of each day's operation. Successful Bidders and subcontractors are also expected to temporarily maintain old signs in order

#### TECHNICAL SPECIFICATIONS-SIGNS

to continue their directional and identification functions, as well as to maintain signage that meets MUTCD standards during the installation period. At the completion of work, successful Bidder and subcontractors shall remove all rubbish, tools, equipment, and surplus materials, from and about the premises, and shall leave the site as originally found. Successful Bidder shall be responsible for repairing or correcting damage to other contractors' work resulting from successful Bidder's work.

# **EXHIBIT A**

**Design Intent Drawings and Specifications (Pages 1-19)**





MERIDIAN TOWNSHIP

# WAYFINDING SIGNAGE

## DESIGN INTENT DRAWINGS

April, 2022  
Version 7

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415 S Union, Second Floor, Traverse City, MI 49684 | [corbindesign.com](http://corbindesign.com) | (231) 947-1236

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All ideas, designs, represented by these drawings are owned by, and property of Meridian Township. None of these ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm or corporation for any purpose without the written permission of Meridian Township and Corbin Design.

**CORBIN**  
DESIGN

## SECTION 10 14 00 – FABRICATION SPECIFICATIONS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes specifications related to fabrication and installation of exterior project signage.
1. Sign type details are listed in the Design Intent Drawings. Design drawings are provided to the Fabricator in PDF format, or in Adobe Illustrator 22.1.
  2. Sign Location Plans are general in nature and not to scale. They reflect locations deemed desirable for the effectiveness of the overall wayfinding plan. Sign location plans are provided to the Fabricator in PDF format
  3. The Sign Message Schedule includes sign type, exact messaging, layout details, and provides additional installation or graphic layout information specific to each sign location. Sign message schedules are prepared in FileMaker. Fabricator will be provided information in PDF format sorted by sign type and by sign number. Data is also available exported into an Excel file. A link to the FileMaker database can also be supplied.
  4. The materials, products, equipment and performance specifications within these documents describe the standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.
- B. Fabricator's responsibilities:
1. Engineer, fabricate and install all signage and graphics per the final documents provided at contract award.
  2. Be knowledgeable of relevant federal, state and local code requirements, and be responsible for ensuring that all signs meet current local, state and federal codes, especially, but not limited to, ADA and Fire/Life Safety codes.
  3. Perform complete structural design and engineering of the signs and incorporate all the safety features necessary to adequately support the sign for its intended use and purpose, as required for approvals and permits, and to protect the Owner. All signs shall meet local, state and federal codes. Engineered shop drawings for project signage shall be reviewed, stamped and signed by a local state-registered engineer. Shop drawings are to be provided for all sign elements.
  4. Engineer all signs, banners and mounting devices, unless otherwise indicated, to withstand the required wind load (normal to the sign, in addition to the weight of the sign) as specified by ASCE, American Society of Civil Engineers, or greater as per local, state or federal code.

#### 1.2 WARRANTY

5. Signs listed in the sign message schedule should match those on the sign location plan. Fabricator to notify the Designer and Owner's Representative of any discrepancies before manufacturing the signage.
  6. Visit the site to observe existing conditions, verify mounting conditions and space availability, take field measurements and verify all signage locations with Owner's Representative prior to starting fabrication.
  7. Develop graphic proofs of all sign faces using messaging from Sign Message Schedule.
  8. Secure any and all necessary permits for signage installation.
  9. Work with the Owner's Representative to secure any necessary variances.
  10. Notify the Owner's Representative immediately if any discrepancies exist within the Construction Documents or field conditions.
  11. Provide all submittals outlined in the specifications in a timely fashion and according to the agreed upon contract schedule.
  12. Work with the Owner's Representative to coordinate with other trades performing work on site.
  13. Maintain all project related files such that the Owner may reorder additional signs for a minimum of 10 years after the completion of the work.
- A. Extend in writing all manufacturers' warranties.
- B. Obtain a minimum five (5) year extended warranty on all paint and powder coat applications.
- C. Obtain a minimum eight (8) year warranty on all custom color vinyl or flood-coated vinyl applications. Vinyl shall not fade excessively, discolor, crack, peel, blister, or loose reflectivity.
- D. Obtain a minimum five (5) year warranty on all applied vinyl applications. Vinyl shall not fade, discolor, delaminate, crack or curl.
- E. Provide a written full replacement warranty for five (5) years starting from the completion of installation that all signs will be free of defects due to craft work and materials including, but not limited to:
1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
  2. Corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).

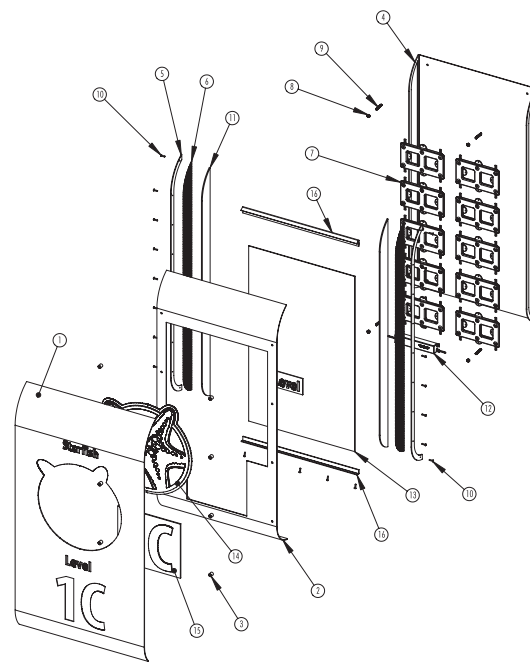
#### 1.3 DESIGN RIGHTS

3. Corrosion of fasteners.
  4. The assemblies not remaining true and plumb on their supports.
  5. Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
  6. Peeling, delamination or warping ("oil canning").
  7. Repair and reinstallation of signage due to failed mountings.
- F. Repair or replace, including installation, any defective signs or hardware, which develop during the warranty period and repair any damage to other work due to such imperfections at no charge to the Owner and to the Owner's satisfaction.
- G. The Fabricator will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that were submitted to the Fabricator upon award of contract.
- A. The Fabricator is hereby granted limited right to the designs as shown and specified herein for the sole purpose of completing contractual obligations to fabricate and install project signage. Fabricator may not manufacture, reproduce or exhibit these designs, or modify them for any other purpose without prior written consent from both the Owner/ Owner's Representative and the Designer.

#### 1.4 SUBMITTALS

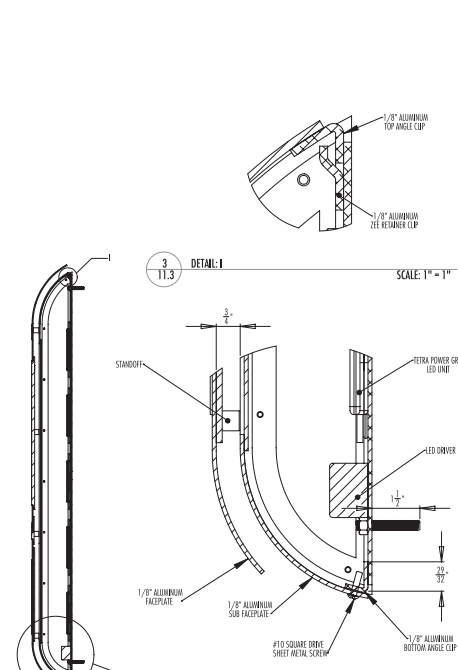
- A. Pre-Fabrication Submittals: Submit the following to the Owner's Representatives and Designer for review and approval prior to commencing with signage fabrication.
1. Shop Drawings: Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11" x 17". Final Shop Drawings are to be stamped by an Engineer licensed in the state to ensure structural integrity and safety. The shop drawings for each sign type shall illustrate/describe the following:
    - a. Elevations and cross sections – front, sides, top and back; side sections; internal structure section/details; enlarged details such as of extrusions, push-through letter mounting, mounting plate; and access panel, etc.; with all final dimensions and call-outs for:
    - b. Components – construction details/information related to individual elements
    - c. Materials – color, type, gauge, and thickness (including substrates and overlays)

- d. Finishes – color, type of product, manufacturer, and sheen
- e. Fonts, graphics specifications and message fields
- f. Exploded view, unless otherwise indicated – isometric view with components, materials, and finishes.
- g. Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.
- h. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
- i. Electrical details are to be provided for all elements that require electricity. Specific items to be listed are:
  - 1) Light source and/or fixture type and manufacturer
  - 2) Power supply (transformer)
  - 3) Amperage and voltage per sign
  - 4) Electrical service required (source)
  - 5) Electric Eye and Timer
- j. Lighting detail – provide an internal view of light fixtures, LED layout, transformers, external cut-off switch, light sensor, and timer.
- k. Foundation details – provide detailed foundation details including all concrete and reinforcement specifications.
- l. Engineering for wind load
- m. Removable panels (where applicable)
- n. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.



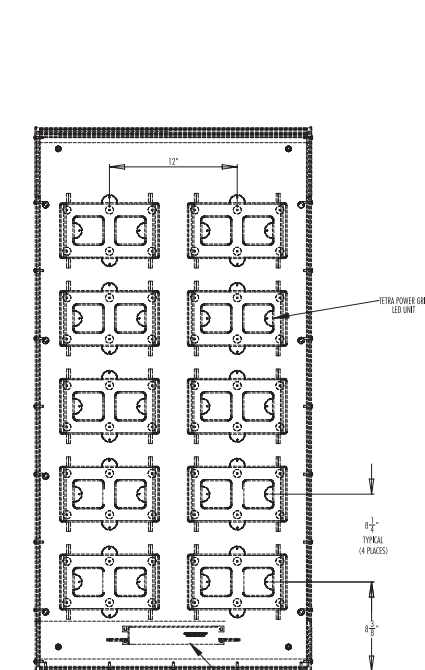
111.2 EXPLODED VIEW & BOM

Exploded View



111.3 DETAIL: F

Cross-section View



111.7 ELEVATION - LED LAYOUT

Lighting Detail

2. Samples: Submit three (3) 5" x 5" samples of each material listed in the design intent material specifications using actual substrate materials for review and approval. One will be returned, one kept by the Owner's Representative and one kept in the Designer's records.
  - a. Label the back of every sample with the project name, sample designation and fabricator name.
  - b. The Owner's Representative and Designer reserve the right to reject any sample and require additional samples as necessary to obtain final approval.
3. Keystroke Proofs: Provide a proofing document of final production keystroke output for all sign messages to verify line breaks, character and word spacing, and interline spacing.
  - a. The proofs are to be scaled production art files, not full sized.
  - b. Layouts are to be organized by sign type and by sign number within each sign type group.
  - c. Each layout is to be identified with the corresponding sign number.

4. Schedule: Provide a detailed fabrication and installation schedule.
  - a. Include all pertinent dates and milestones such as submittal delivery dates, required approval dates, fabrication dates and installation dates.
  - b. Include all lead times for materials and third-party supplied items.
  - c. Allow a minimum of 15 business days for Owner Representative and Designer review with one round of revisions built in unless otherwise noted within the bid schedule.
  - d. Include submittal delivery dates.
- B. During Fabrication Submittals:
  1. Fabricator is required to maintain the detailed fabrication and installation schedule, submitting weekly updates as changes occur.
  2. Upon request, Fabricator is to submit photo documentation of signage at various stages of fabrication and installation. Review of these photos does not rule out rejection of the sign during the punch list if they do not meet fabrication requirements.

- C. Post-Fabrication Submittals: Upon completion of the initial installation, the following are to be submitted to the Owner's Representatives.
  1. Maintenance instructions and manuals for all sign components (lighting, paint, etc.), along with final amended shop drawings, as-installed sign location plans and approved keystroke documents.
  2. Instructions for maintenance and waxing of painted, powder coated and fiberglass elements.
  3. Templates for all insert based signs, utilizing standard software for the Owner's use in printing replacement inserts.
  4. One (1) pint of each finish paint color for touch-up purposes.
  5. Labeled, spare keys to master keyed locks on directory or kiosk signage.
  6. Warranty documentation, as outlined above.

### 1.5 QUALITY ASSURANCE

- A. The materials, products, equipment and performance specifications described within, establish a high quality standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.
- B. Materials used for this project shall be new materials, not reconditioned.
- C. Fabricator shall only use workforce skilled and experienced with the products, fabrication methods, and installation requirements outlined for this project.
- D. Fabrication and installation is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. It is the fabricator's responsibility to suggest alternate fabrication or installation methods, should they be deemed necessary to hinder theft or vandalism.
- E. Regulatory Requirements: Signage shall meet or exceed requirements of all current applicable local, state and federal codes, including, but not limited to:
  1. MUTCD standards manual, 2009 edition with the 2012 revisions;
  2. 2010 Americans with Disabilities Act Standards for Accessible Design, including local modifications and amendments; and
  3. Local and State Building and Fire Codes.

### 1.6 DELIVERIES, STORAGE AND MATERIAL HANDLING

- A. Pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage.
- B. Provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.
- C. Recommend covering all sign faces with a low-tack protective vinyl cover, to be removed after installation. This is to help minimize minor scratches and nicks that happen during unpacking and installation.
- D. Coordinate the delivery and secure storage of signs with the Owner's Representative to meet deadlines.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Substitution:
1. No substitution will be considered unless the Owner's Representative and Designer have received written request for approval.
  2. Equal or better equipment or method may be recommended, but fabricator will be required to provide full documentation, upon request, establishing such a substitution's equality or superiority as measured in: compliance with the visual design intent, cost, ease of maintenance, and performance.
  3. The Owner's Representative and Designer's decision of approval or disapproval of a proposed substitution shall be final.
- B. Approved manufacturers include:
1. Acrylic Polyurethane Paint: Matthews Paint Company or Akzo Nobel
  2. Powder Coating: PPG Duranar or Akzo Nobel Interpon
  3. Exterior Vinyl: 3M or Oracal
  4. Exterior Perforated Vinyl: 3M
  5. Acrylic Sheets: Rohm and Hass Co, Acrylite or equal.
  6. Panaflex: 3M or equivalent
  7. LED lighting system: General Electric, SloanLED, Philips, US LED or equivalent
  8. Exterior Extrusions: SignComp, Charleston Industries or equivalent
  9. Exterior Tactile signs: Gravoply or equivalent
  10. Stainless Steel Strapping System: Band-It or equivalent
  11. Banner Hanging System: Banner Saver
  12. High Pressure Laminate: Fossil Industries, i-Zone, Trespa
  13. Fiberglass Embedded Panel: Pannier Graphics
  14. Electronic Message Centers: Daktronics, Firewatch, Vantage LED
  15. Adhesive Silicone: Dow Corning or equivalent
  16. Adhesive Tape: Polyfoam or "Isotac" by 3M or equivalent

### 2.2 Materials

- A. Aluminum: suitable for ornamental work. Finish to be smooth and free of imperfections. Alloy based upon structural requirements of the signage design.
- B. Aluminum sheet: .125" minimum thickness unless otherwise specified.
- C. Aluminum plate: .25" minimum thickness unless otherwise specified.

- D. Structural Steel: galvanized rolled steel or equal as required to meet structural requirements.
- E. Acrylic sheet: varying colors and thicknesses as noted on design intent drawings, 2447 is standard for use in LED illuminated sign types, 7328 is standard for use in Fluorescent illuminated sign types.
- F. Illumination: per design drawings as LED or high-output fluorescent lamps with 800 MA, exterior UL rated electronic ballasts per specifications. Specifications for T-8 lamps are specific to the 60,000 hour T-8 lamp.
- G. Day/Night perforated vinyl: 3M custom color vinyl; flood-coating perforated vinyl is not an acceptable solution unless noted within the design intent drawings.
- H. Adhesive vinyl: opaque color, reflective color, translucent color and transparent color.
- I. Electric Eye and Timer as indicated by the Owner's Representative.
- J. Exterior grade paint: acrylic polyurethane paint in solid and metallic colors with primer and Super Satin Clearcoat finish.
- K. Matthew's Paint reflective white paint or 3M Matte White Light Enhancement Film.
- L. Miscellaneous mounting hardware: including but not limited to, screws, bolts, stainless steel cable, hinges, and adhesives.
- M. Labels: Only labels required by law are permitted on the exterior of the sign face.
1. Labels shall not be on the primary messaging faces of the sign, unless dictated so by the local ordinance.
  2. Labels shall be located in a position as discreet as possible.
  3. No other labels are permitted on the signs.
  4. Fabricator contact information may be placed inside the sign on the access panel.
- N. Fiberglass panels with embedded artwork are to be fabricated using minimal 1/8" thick fiberglass panel with permanently embedded digital graphics. The panel must be a solid, one-piece panel with all graphic elements inseparable from the fiberglass in which they are embedded.
- O. All printed graphics shall be printed at a minimum of 1200 DPI using exterior grade UV inks.
- P. High pressure laminate: Digital graphic surface papers encapsulated with melamine resins are pressed over a portion of recycled post-consumer kraft paper core sheets impregnated with phenolic resin. These sheets are bonded under pressures greater than 1200 pounds per square inch

and at temperatures approaching 300°F (149°C). The 0.040" backs are sanded to facilitate bonding to other substrates.

### 2.3 FABRICATION

- A. Details on design drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and service at the installed locations.
- B. Site-verify all locations to determine special installation requirements, uneven footing needs based on sloped grades. Field verify measurements for wall mounted and glass mounted signage, etc. prior to fabrication.
- C. Fabricate signage such that major components of the sign can be removed and replaced with similar components. Incorporate this changeability such that it does not promote vandalism, but can be done by a qualified maintenance crew.
- D. Within fabrication tolerances, allow for expansion and contraction of materials due to temperature changes as appropriate to the project location.
- E. Construction Methodology:
1. The drawings call for a variety of fabrication techniques.
  2. Sign faces are to be fabricated using aluminum plate of varying thicknesses, as specified on design drawings, with a minimum thickness of .125 inches unless otherwise noted.
  3. Push-through copy:
    - a. Routed push-through copy from a single sheet of white acrylic.
    - b. Acrylic to have a minimum thickness of 3/8".
    - c. Acrylic to be pushed through 1/16" unless otherwise noted on design drawing.
    - d. Letters and shapes that are routed out and bonded to a separate acrylic sheet are not acceptable.
    - e. Acrylic is to be attached to the interior of the sign using mechanical fasteners.
    - f. All letter knock-outs (interior of letter forms) are to be stud mounted through the acrylic.
    - g. Acceptable spacing between the push-through acrylic and the cutout aluminum is 1/32" for copy 12" or smaller. Copy larger than 12" may have alternate spacing to allow for the change in material expansion.
    - h. The edges and corners of routed letterforms shall be sharp and true. Letterforms with nicked, cut, ragged, rounded (positive or negative) corners, and similar disfigurements will not be acceptable.

4. Conceal all fasteners except for access panels or where approved otherwise by Owner's Representative and Designer. Access panel fasteners are to be stainless steel, tamper resistant, counter-sunk flush screws, painted to match adjacent finish.
5. All hardware and fasteners within reach shall be vandal resistant.
6. Any sign faces smaller than 8' by 20' are to be fabricated from 1 piece of seamless material.
7. To prevent electrolysis, separate all ferrous and non-ferrous materials with a non-conductive gasket or barrier and utilize stainless steel fasteners as required.
8. Welded joints:
  - a. Exposed welded joints must be filled and ground smooth so that there is no seam visible when painted.
  - b. Dimensional and structural welding defects will not be accepted, including but not limited to: poor weld contours, including excessive bead convexity and reinforcement, and considerable concavity or undersized welds; cracks; undercutting; porosity; incomplete fusion; inadequate penetration; spatter; and non-metallic inclusions.
  - c. Welding is to be performed by AWS (or similar) certified personnel, following AWS Standard Welding Procedure Specifications (SWPSs) for steel, aluminum, and stainless steel as appropriate.
9. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
10. Exposed acrylic edges are to be finished such that no saw marks are visible.
11. Drain holes:
  - a. Provide drain holes as needed to prevent accumulation of water within signs.
  - b. Holes must be inconspicuous and located such that drainage does not occur onto signs, or other surfaces subject to staining.
  - c. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs.
  - d. Use color-coordinated stainless steel bug mesh screen over drain holes or vents.
12. Non-illuminated sign faces are to have lettering and graphics created as surface-applied vinyl typography unless otherwise noted in the design drawings.
13. Visible metal joints must adhere to a fit tolerance of .01".

14. Channel letters:
  - a. Non-illuminated faces must be .125" aluminum.
  - b. Channel letter returns must be a minimum of .080" aluminum.
  - c. Face-lit channel letters mounted on the first or second story of a building shall be trimless.
  - d. Face-lit channel letters installed on the third floor or higher of a building may use a low-profile trim cap.
  - e. Jewel trim is not acceptable.
  - f. Raceways are not acceptable unless specifically noted on the design intent drawing or if approved by the Owner. Approved raceways must be painted the same color as the wall on which the raceway will be mounted.
  - g. Acrylic must fit snugly into the letter return.
15. Sign panels shall be appropriately pre-drilled/pre-cut before priming and painting or coating.

F. Painting:

1. Metal surfaces are to be painted per the most recent Matthews Paint or Akzo Nobel product bulletins.
2. Paint preparation of all metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching.
3. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or Akzo Nobel published recommendations.
4. Aluminum and Steel surfaces to be properly covered with a primer.
5. Acceleration of the drying process is not allowed.
6. All paint and powder coat finishes to be a satin finish unless otherwise noted in the design drawings.
7. All painted surfaces to have a clearcoat finish to add UV protection and protection from the elements.

G. Illumination & Electrical:

1. Perform the complete electrical design for illuminated signs.
  - a. Illuminated signs shall be designed by an electrical engineer.
  - b. Illuminated signs shall be fabricated and wired to be compliant with current UL® listing requirements.
  - c. Illuminated signs shall be UL® Certified.

2. The disconnect switch is to be located in an inconspicuous location, not visible from the primary face(s) of the sign.
3. Fabricator to verify location of power and electrical feed with the Owner's Representative prior to sign fabrication.
4. All internally illuminated signs and channel letters shall be painted white on the interior using Matthews' reflective white paint, or shall be lined with 3M's Matte White Light Enhancement Film, to enhance and evenly distribute light.
5. Provide concealed access panel in an accessible location on all internally illuminated sign cabinets. Panels are to be flush, lightproof and watertight.
6. Internally illuminated signs are to have adequate internal system of ventilation to assure a uniform dissipation of heat from electrical components of electrically powered and illuminated signs, heat (solar) absorption by sign and other sources.
7. Any openings in exterior surfaces must be internally baffled to prevent light leaks and prevent entry of rain, snow, wind-blown debris, and other foreign matter, and are to be covered with color-coordinated insect screen on the interior of the face.
8. House all electrical components within sign cabinets, except for remote transformers as dictated by the Owner's Representative. All wiring and raceways within the sign are to be completely enclosed.
9. Transformers for channel letters shall be remote transformers wherever possible. If remote transformers are not applicable, then all electrical components shall be contained within the channel letter itself.
10. Internal illumination by lamps is required to provide adequate and even illumination over the face of the sign without hot spots or shadows.
11. Illumination to be provided by LED or Fluorescent lamps as specified on design drawings.
  - a. Signs wired with high output lamps are to include spring-loaded static strips between each lamp.
  - b. Internally illuminated channel letters shall be illuminated using LED, unless otherwise noted on the design drawings.
12. LED, lamps or other internal hardware must not be visible through the translucent letterforms and graphics.
13. All internally illuminated signs are to have a master timer with photoelectric eye on/off control to turn the sign on at night and off in the morning, and on during dark conditions. Location of timer to be approved by the Owner's Representative.
14. Test and verify all illumination within the shop environment prior to shipping signs to site.

H. Fonts/Typefaces:

1. Fonts used within the Designer's programs were purchased by and are licensed to the Designer. It is the responsibility of the fabricator to purchase the specified licensed fonts for use within this program. See the design intent typography page for the specific fonts.
2. The fabricator is responsible for spacing the letters (Kerning) to meet ADA code requirements.
3. Letter height/cap height is based upon the height of the capital letter "E" or any capital character that has a flat top and base.
4. Under no circumstances are typefaces to be electronically distorted ("squeezed" or "extended") for purposes of fitting to the specified sign or general alteration of the sign face composition unless noted in the drawings. This includes (but is not limited to) stretching, squeezing, tilting, outlining or shadowing.
5. Ligatures are to be turned off.
6. Apostrophes and quotation marks are to be used, not footmarks and inches. Note that there is a difference in most fonts.
7. Fabricator to reference spacing within the Design Intent Drawing package. Layout of copy is critical for the proper function of the wayfinding signage. Any typesetting concerns or issues are to be brought to the Designer for resolution recommendations.
8. Fabricator is responsible for correcting any typesetting errors that may be necessary.

I. Silk-screen, digital printing and vinyl copy:

1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means.
2. Cutting shall be done such that edges and corners of finished letterforms will be straight, sharp and true.
3. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.
4. Copy is to match the sheen of the copy panel background (satin).
5. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.
6. Silk-screened images shall be executed with photo-processed screens prepared from original electronic art.
7. Use only weather-resistant coating materials that are compatible with substrates.
8. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage.
9. Images shall be uniform in color and ink thickness.
10. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height.

## PART 3 - EXECUTION

### 3.1 DEMOLITION

- A. It is required that the fabricator remove existing signs as identified in the bidding documents.
- B. Fabricator is to remove all below grade footings and foundations completely and fill with compacted soil. OR Fabricator is to remove below-grade footings and foundations to a minimum depth of 8" below grade and repair landscaping.
- C. For individual letters, Fabricator is to remove the sign, fill holes, power wash the façade and touch-up paint as required.
- D. If there are electrical connections, they must be properly terminated.
- E. Fabricator is responsible for disposal of existing signage. Recycling is recommended. Open dumping is prohibited. Coordinate with Owner's Representative.
- F. Fabricator is to repair and bring to consistent look with surrounding area, any areas damaged or left exposed in an unfinished condition due to the removal of a sign.

### 3.2 INSTALLATION

- A. Permits and Variances:
  1. Research relevant local code requirements and honor the same in fabrication and installation.
  2. Secure any and all necessary permits for signage installation. Coordinate with the Owner to secure variances, should any be required.
  3. Coordinate with the Owner to have all underground utilities properly located and marked. Any damage to below-grade utilities or structures for which the Owner or Owner's Representative has provided adequate location information is the responsibility of the Fabricator.
- B. Site Visit:
  1. Ensure that every building-mounted sign location has the necessary blocking for safe and secure mounting. Where additional blocking is needed, recommend changes and additional associated costs, and receive approval prior to beginning installation.

2. The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location for each sign. Any necessary adjustments will be made with the approval of the Owner.
- C. If installation subcontractors are utilized, the Fabricator must provide a company representative to act as on-site supervisor through the duration of the installation process to oversee any subcontracted installation work.
- D. Fabricator to maintain current signage and directional information during installation in order to continue to provide proper wayfinding. This can be done through the use of temporary signs, or vinyl over existing sign faces.
- E. Fabricator to coordinate delivery of signage with the Owner's Representative.
- F. Fabricator to provide a site logistics plan indicating the work areas, proposed equipment and power sources, extent and duration of street closures, and schedule time/dates of the respective sign installations. This schedule is to be updated on a weekly basis if changes occur.
- G. Electrical:
1. The Owner or Owner's Representative will be responsible for providing a power source to within 10 feet of the base of each sign requiring power (either at grade or below grade). OR The Fabricator is responsible for subcontracting an electrician to pull power from the source to the sign location. The Owner will work with the Fabricator to identify the preferred junction location.
  2. Power is to be 120 or 277 (LED illumination should be 120) volts at 60 cycles unless otherwise noted by the Owner's Representative. Fabricator to confirm based upon location source with the Owner's Representative.
  3. Manipulate the existing conduit to its proper location, install an external disconnect, extend the conduit through the concrete base (or posts) to align with the point of hookup, and run the power supply through it.
  4. Conduit running from the disconnect to the sign shall travel within the concrete base, not on its surface.
  5. Perform final hook-up. This may not be an excluded service from the bid return.
- H. Masonry/Footings:
1. All concrete bases for signage are to be poured in place from thoroughly mixed and agitated concrete.
  2. Footings are to extend beneath the frost line, or deeper to meet local code.

3. All footings or bases should be poured within a form and level with grade unless otherwise specified in the design drawings or as specified by state or local code.
  4. Foundation/footings should not extend above grade more than 2" and exposed edges should be finished with a bevel to prevent chipping, unless otherwise indicated in Design Intent Drawings.
  5. It's recommended that the concrete be floated by machine or hand before finishing in order to embed larger aggregates especially when part of the footing or base extends above ground.
  6. Concrete surface should have a smooth or brushed finish grade appearance. Match the finish appearance of connecting concrete surfaces when applicable.
  7. All concrete bases and footings should be edged to break any bond with the form and create a neat appearance. All forms should be removed once the concrete has properly cured.
  8. Provide the necessary templates, mounting plates and hardware for concrete and masonry bases.
  9. All masonry (concrete block, poured concrete, brick, slab, veneer, mortar, etc.) is to be properly treated and protected to maintain the structural integrity of the masonry work with exposure to all environmental conditions found at the site. For exposed or visible masonry, this shall include the application of protective sealers or similar finishes to diminish the effects of close-proximity sprinkling or irrigation systems.
  10. Wet concrete with footers and posts must fully cure in place before signage is installed on the footers or mounted to the posts.
- I. Mounting:
1. Signs are to be mounted on J-bolt footings or breakaway bases, centered on the concrete base or footing, and engineered per code, unless otherwise specified in the design drawings or required by code.
  2. Fabricator to use stainless steel 300 series for all bolts, nuts, washers and other fasteners,
  3. Fabricator is required to specify mounting hardware and anchoring per the engineering of the signage. The visual appearance of the sign is not to be compromised from that shown in the design drawings.
  4. Install all signage products such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding, sticking or blocking.

5. All signs to be mounted level and true, and within the guidelines of applicable local, state and federal codes including, but not limited to, the 2010 Standards for Accessible Design (ADA) and fire/life safety codes, where applicable.
    - a. If signs are to be installed in a parking garage where the structural elements are not level due to the grade of the garage, the Owner is to decide whether the sign should be mounted level or aligned with the structural elements.
- J. Locating Signs:
1. Fabricator's installers must have applicable understanding of the 2010 Standards for Accessible Design (ADA) mounting guidelines, city zoning and other applicable federal, state and local codes, general sign locating practices, and any particular unique installations.
  2. Installers are to follow the regulations, noted guidelines, and architectural details around an installation location for the best visual placement.
  3. Keep a reasonable distance from protruding objects.
  4. Any signage that is improperly located is to be moved to the proper location, and all repairs to wall surfaces and signage are to be handled by the Fabricator.
  5. If the installers are unable to make a decision about any sign locations, they can contact the Designer, providing a graphic representation of the questionable area, or contact the Owner's Representative for on-site options. If there is a code requirement regarding the sign location, the installer must notify the Owner's Representative of the requirement.
- K. Upon completion of installation, Fabricator is to remove any protective covering, tape, or installation hardware. Fabricator is then to clean the sign per the manufacturer recommendations, ensuring that sign is clean from dirt, stains, fingerprints, tape residue, etc.
- L. All exposed hardware is to be touch-up painted on site as required immediately following installation prior to punch list.
- M. All minor blemishes or marring are to be repaired such that the repairs are imperceptible. Components having permanent, non-removable scratches or defects are to be replaced completely.






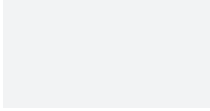
- N. Site Safety and Restoration:
1. Fabricators are responsible for their own safety during the installation period.
  2. Maintain a safe environment for pedestrians and vehicular traffic during the installation period, following OSHA safety standards as necessary.
  3. Keep the Owner's premises and the adjoining premises, driveways and streets clean and clear.
  4. Job site shall be left safe, neat and clean at the completion of each day's operation.
  5. In addition to maintaining old or temporary signs for their directional or informational purposes, Fabricator is to maintain signage that meets or exceeds MUTCD and local standards during the installation period.
  6. At the completion of work, remove all rubbish, tools, equipment, and surplus materials, from and about the premises, and leave the site as originally found.
  7. Repair or correct damage to other contractors' work resulting from signage installation work.


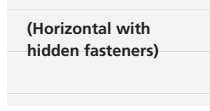

### 3.2 PUNCH LIST

- A. The Fabricator's onsite representative is to complete a walk through with the Owner's Representative immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner's Representative.
- B. Fully replace all signs that are in error relative to the working documents (final sign message schedule and design drawings).
- C. Correct any installation misalignments at no charge.
- D. If the Fabricator agrees to a timeline for the Designer's punch list trip, and then does not complete their scope of work in time for the site visit, requiring the trip to be delayed, the Fabricator will be responsible for associated charges in rescheduling.

### END OF SECTION

## Color Palette

					
① Navy	② Green	③ Orange	④ Black	⑤ White	⑥ Off White
Pantone®: PMS 2945C	PMS 377C	PMS 166C	Neutral Black U	---	---
Matthews Paint: ---	---	---	---	---	MP00015 Polar White
Vinyl: ---	---	---	---	---	---
Powdercoating: ---	---	---	---	---	RAL 9003 Signal White

		
⑦ Light Blue	⑧ Corrugated Metal	⑨ Stone Veneer
Pantone®: PMS 2905C	---	n/a
Matthews Paint: ---	MP00015 Polar White	n/a
Vinyl: ---	---	n/a
Powdercoating: ---	RAL 9003 Signal White	Culture Stone - Melrose or approved alternate

Fabricator is responsible for matching all colors and materials as specified and are required to provide the Owner color and material samples for approval.

**CAUTION!**  
CONSISTENT AND ACCURATE COLOR REPRODUCTION IN THIS DOCUMENT CANNOT BE ASSURED DUE TO THE LIMITATIONS OF COLOR COPYING TECHNOLOGY.

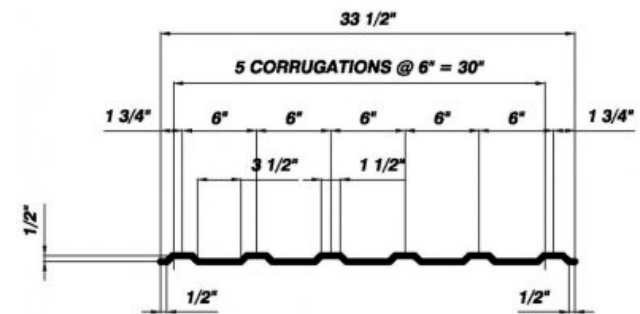
The Coated Pantone Matching System® and Matthews Acrylic Polyurethane are used for specifying signage color matches. (In the absence of actual sign material color chip reference sets, actual specified product color swatches should be referenced for color matching.)

Shown here are approximations of the primary signage background colors and supporting accent colors. Actual color finishes on signage must be satin or low luster (not shiny or glossy) and exclusively a premium acrylic polyurethane.

Signage paints produced by Matthews Paint Company are to be the standard reference.

Vinyl Films from 3M are to be the standard.

Color application varies per sign type. Refer to specific design intent drawings for application details.












Sample Corrugated Metal Panel (or approved alternate)

Corrugated Metals Inc.  
www.corrugated-metals.com  
Style: Harvest Panel

## GRAPHICS STANDARDS

SCALE: 3/8"=1'

## COLOR CODE

-  ① Navy
-  ② Green
-  ③ Orange
-  ④ Black
-  ⑤ White
-  ⑥ Off White
-  ⑦ Light Blue
-  ⑧ Corrugated Metal
-  ⑨ Stone

## NOTES

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DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision

## Typography

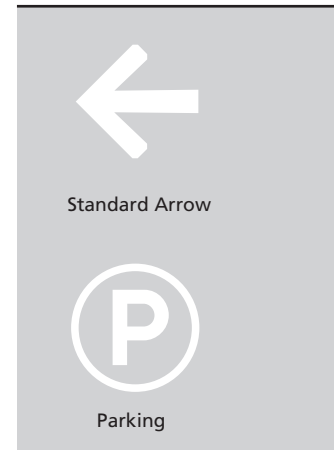
Nexa Bold - Regular

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

Cambria Bold Italic

*Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890*

## Symbols



## Artwork



**CORBIN**  
DESIGN

415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

**SIGN TYPE ARRAY**

NOT TO SCALE

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

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**CORBIN**  
DESIGN

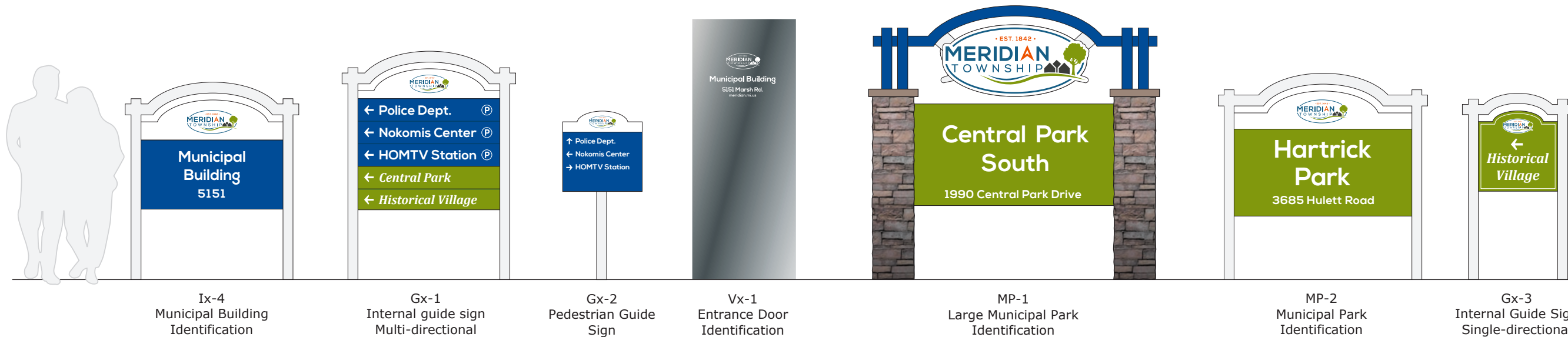
415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236



Ix-2a  
Municipal Campus Identification  
with message board

Ix-2b  
Municipal Campus  
Identification

Ix-1  
City Welcome Sign



Ix-4  
Municipal Building  
Identification

Gx-1  
Internal guide sign  
Multi-directional

Gx-2  
Pedestrian Guide  
Sign

Vx-1  
Entrance Door  
Identification

MP-1  
Large Municipal Park  
Identification

MP-2  
Municipal Park  
Identification










Gx-3  
Internal Guide Sign  
Single-directional



**CONSTRUCTION  
DETAIL**

**SCALE: 3/8"=1'**

**COLOR CODE**

-  ① Navy
-  ② Green
-  ③ Orange
-  ④ Black
-  ⑤ White
-  ⑥ Off White
-  ⑦ Light Blue
-  ⑧ Corrugated Metal
-  ⑨ Stone

**NOTES**

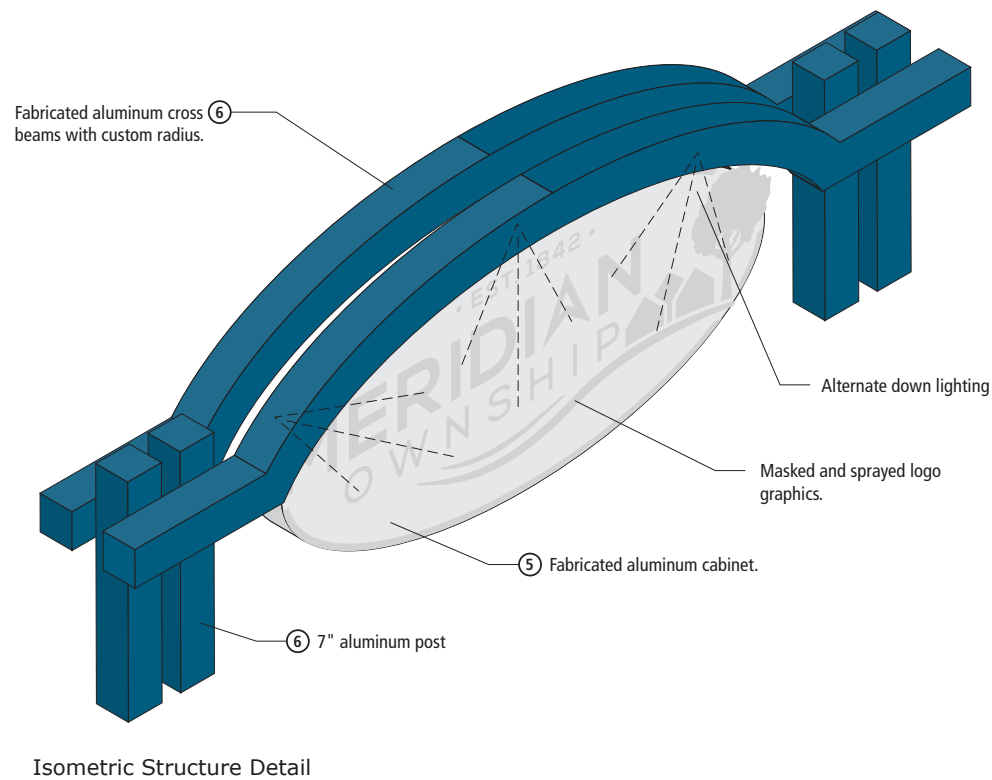
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04.27.22	Revision



**CORBIN  
DESIGN**

415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236



FABRICATOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

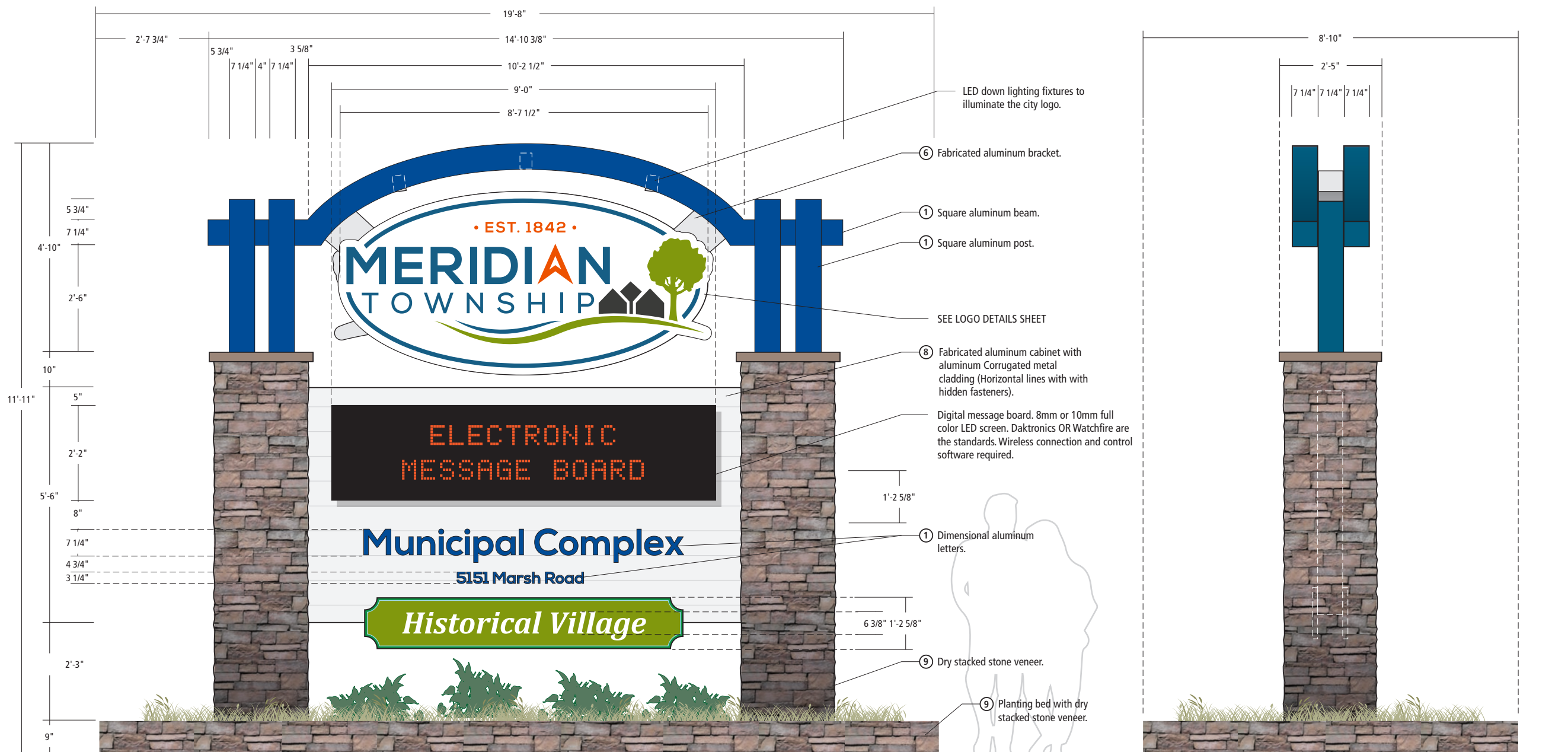
**DOUBLE-SIDED SIGN FACE**



Alternate Base Detail



Alternate Layout



Front View

Side View

**IX-2A MUNICIPAL CAMPUS IDENTIFICATION WITH MESSAGE BOARD**

SCALE: 3/8"-1'

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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DATE	DESCRIPTION
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07.12.21	Revision
04.01.22	Revision
04.27.22	Revision



**CORBIN DESIGN**

415 S Union, Second Floor  
 Traverse City, MI 49684  
 (231) 947-1236

**IX-2B  
MUNICIPAL CAMPUS  
IDENTIFICATION**

**SCALE: 3/8"-1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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DATE	DESCRIPTION
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04.27.22	Revision



**CORBIN  
DESIGN**

415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**DOUBLE-SIDED SIGN FACE**



**IX-1  
CITY WELCOME SIGN**

**SCALE: 3/8"-1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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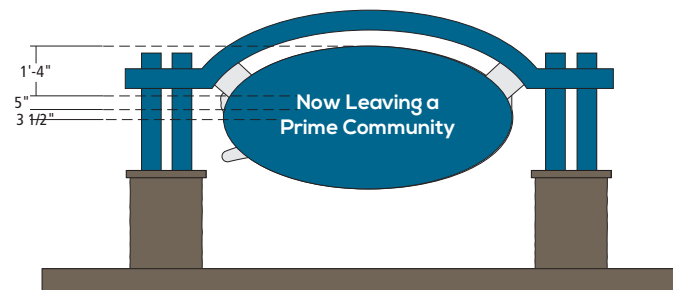
**DATE DESCRIPTION**

DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
09.13.21	Revision



**CORBIN  
DESIGN**

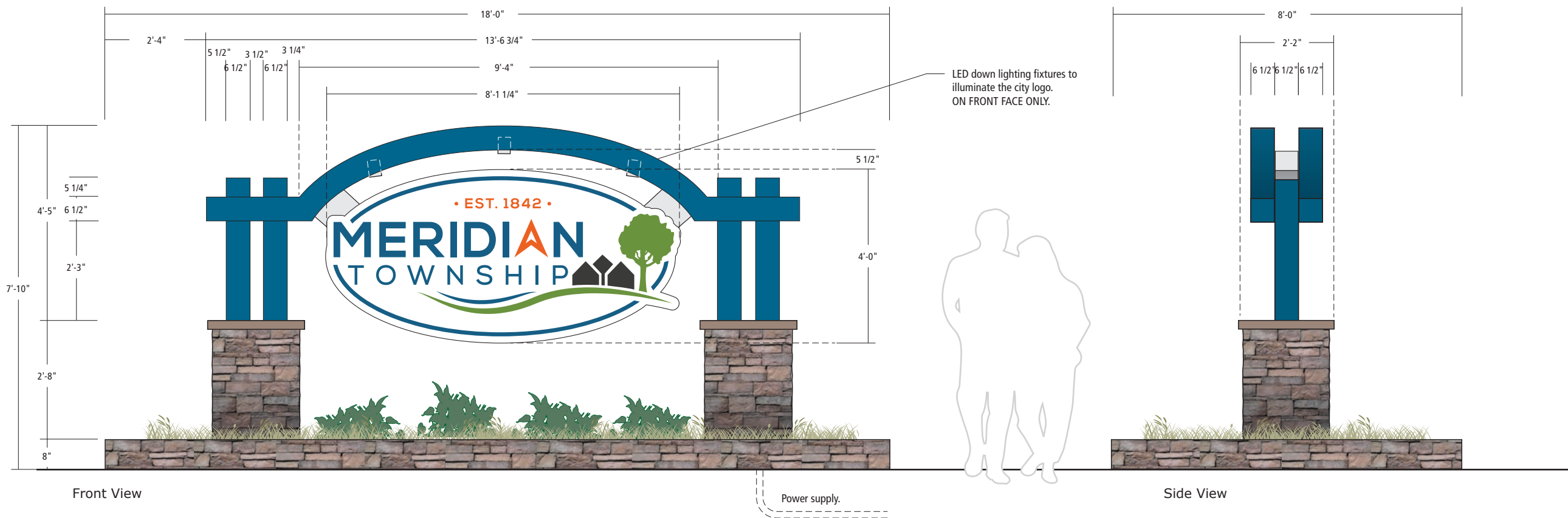
415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236



Back View (not to scale)

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**DOUBLE-SIDED SIGN FACE**



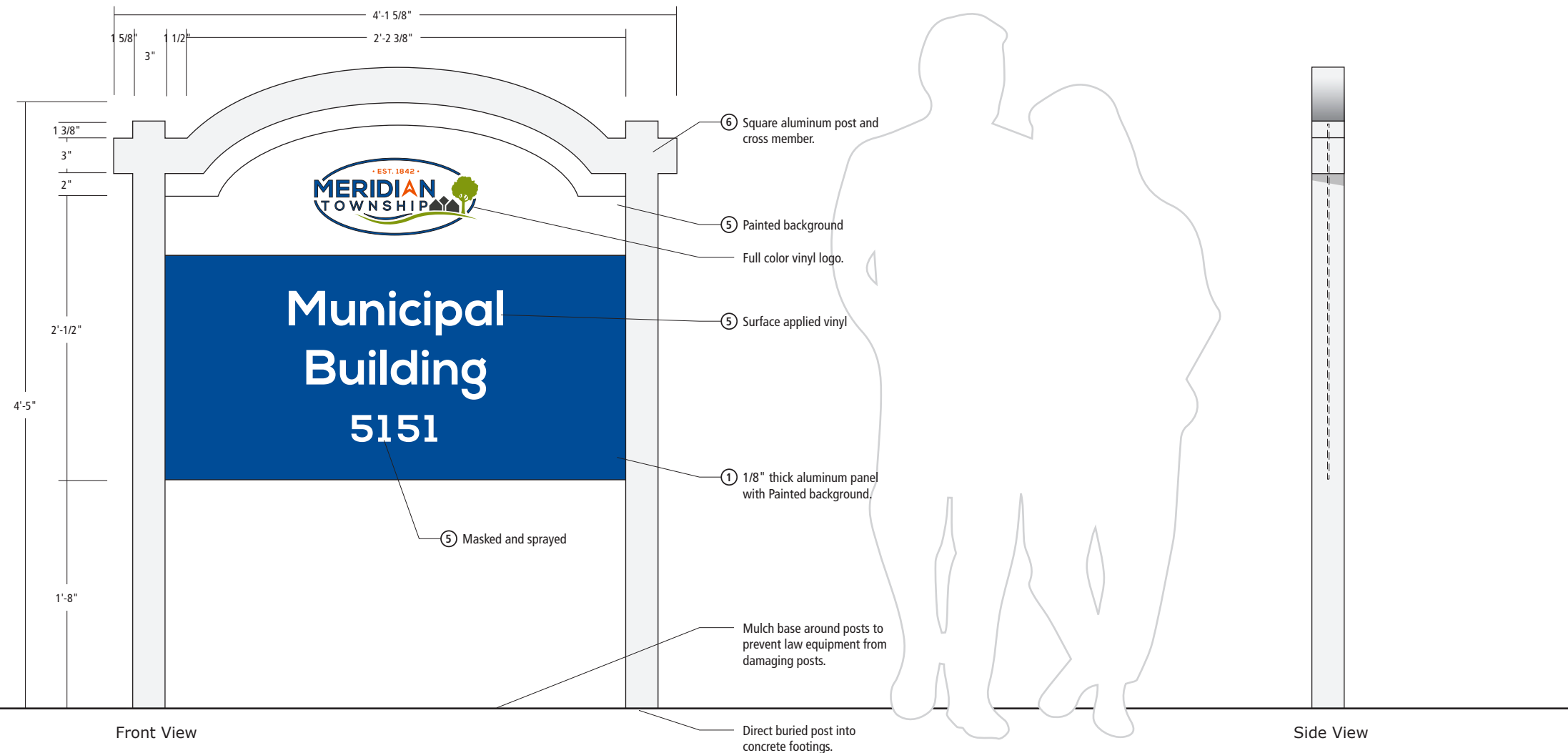
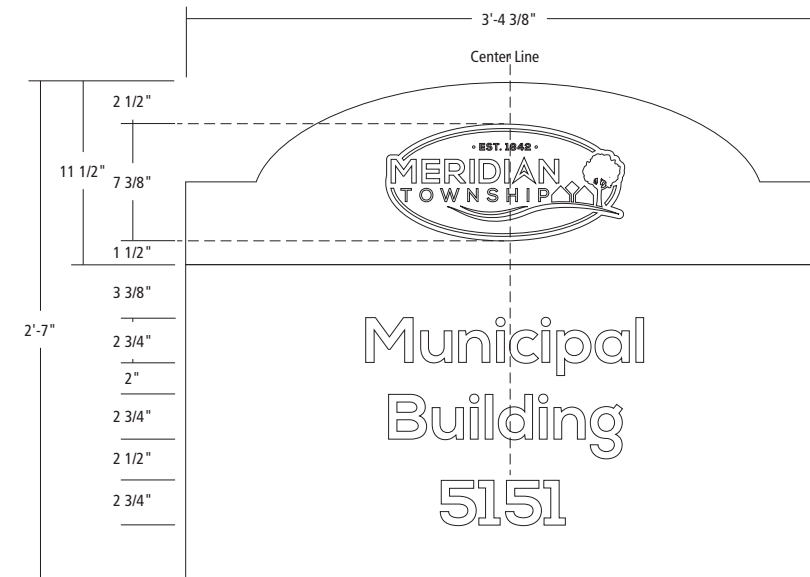
Front View

Side View

Power supply.

FABRICATOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

**DOUBLE-SIDED SIGN FACE**



## IX-4 MUNICIPAL BUILDING IDENTIFICATION

SCALE: 1" = 1'

### COLOR CODE

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

### NOTES

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by Corbin Design or the Owner.

DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision



**CORBIN**  
DESIGN

415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

**GX-1  
INTERNAL GUIDE SIGN  
MULTI-DIRECTIONAL**

**SCALE: 1" = 1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision

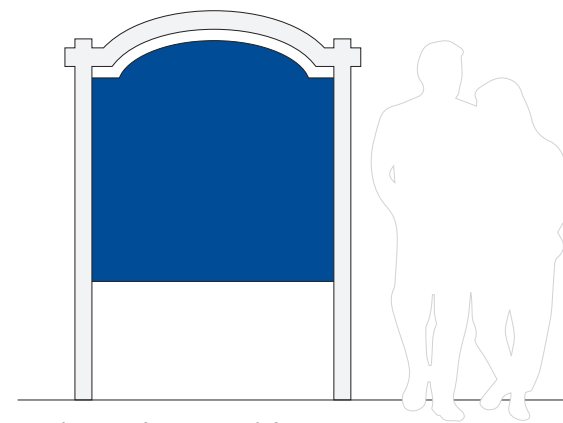


**CORBIN  
DESIGN**

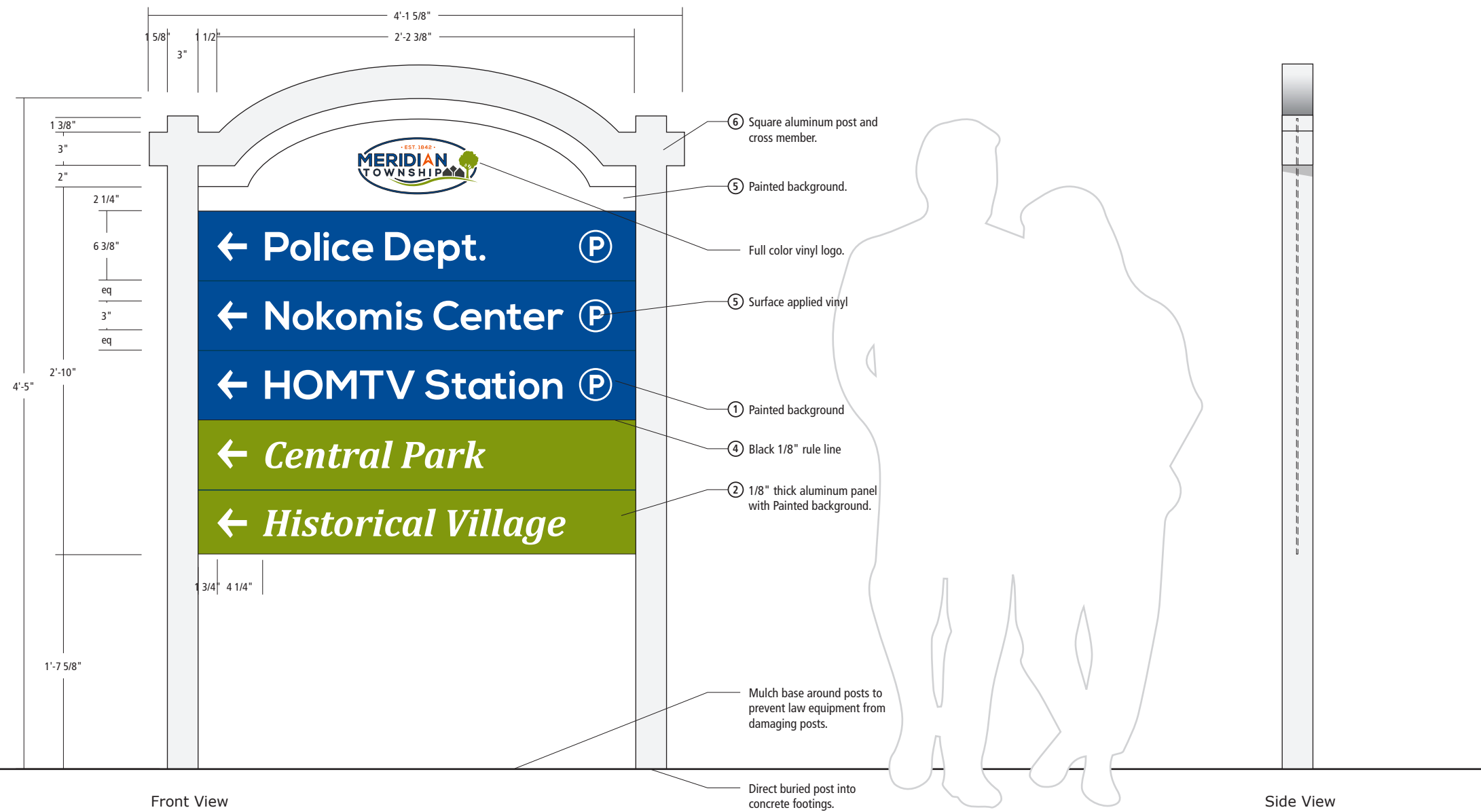
415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**SINGLE-SIDED SIGN FACE**



Back View (not to scale)



Front View

Side View

**GX-2  
PEDESTRIAN GUIDE  
SIGN**

**SCALE: 1" = 1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision

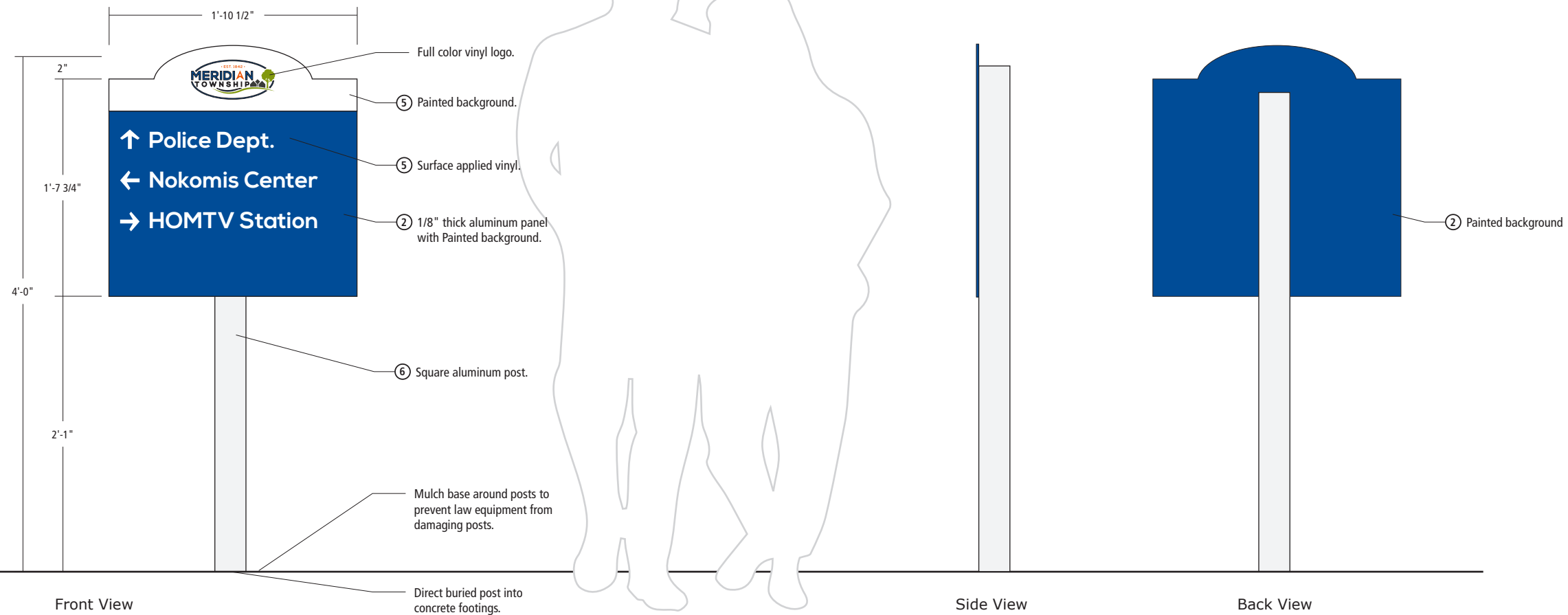
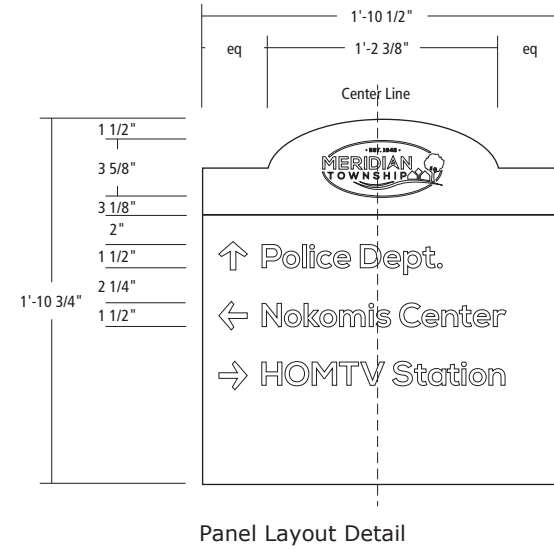


**CORBIN  
DESIGN**

415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.










**SINGLE-SIDED SIGN FACE**



**VX-1  
ENTRANCE DOOR  
IDENTIFICATION**

**SCALE: 1" = 1'**

**COLOR CODE**

-  ① Navy
-  ② Green
-  ③ Orange
-  ④ Black
-  ⑤ White
-  ⑥ Off White
-  ⑦ Light Blue
-  ⑧ Corrugated Metal
-  ⑨ Stone

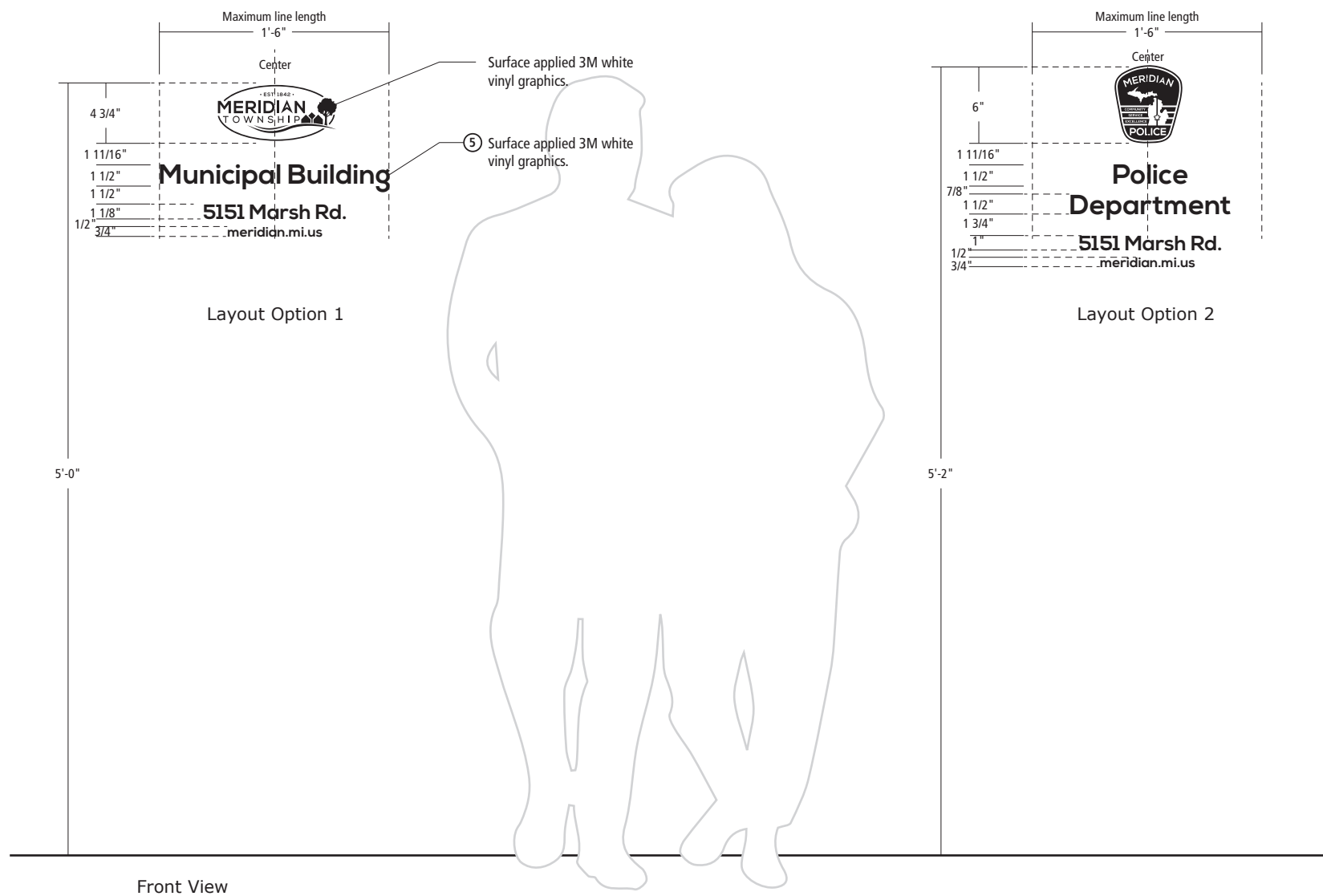
**NOTES**

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DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision



415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236



Front View



**MP-1  
LARGE MUNICIPAL  
PARK IDENTIFICATION**

**SCALE: 3/8"-1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

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**DATE DESCRIPTION**

DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision



**CORBIN  
DESIGN**

415 S Union, Second Floor  
Traverse City, MI 49684  
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FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**DOUBLE-SIDED SIGN FACE**

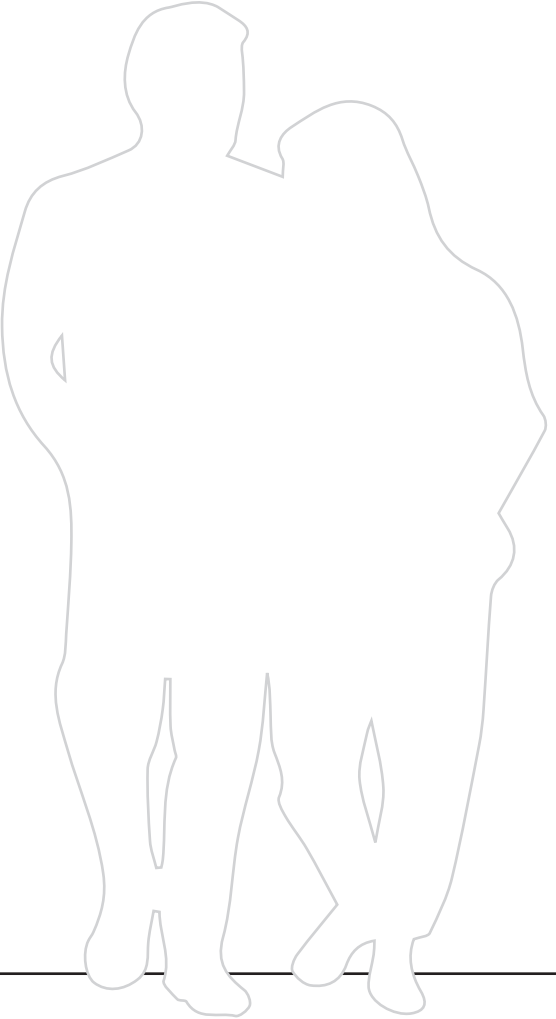


Front View

Side View

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**DOUBLE-SIDED SIGN FACE**



Front View










Side View

Direct buried post into  
concrete footings.

**MP-2  
MUNICIPAL PARK  
IDENTIFICATION**

**SCALE: 1" = 1'**

**COLOR CODE**

-  ① Navy
-  ② Green
-  ③ Orange
-  ④ Black
-  ⑤ White
-  ⑥ Off White
-  ⑦ Light Blue
-  ⑧ Corrugated Metal
-  ⑨ Stone

**NOTES**

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DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision



415 S Union, Second Floor  
Traverse City, MI 49684  
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**GX-3  
INTERNAL GUIDE SIGN  
SINGLE-DIRECTIONAL**

**SCALE: 1" = 1'**

**COLOR CODE**

- ① Navy
- ② Green
- ③ Orange
- ④ Black
- ⑤ White
- ⑥ Off White
- ⑦ Light Blue
- ⑧ Corrugated Metal
- ⑨ Stone

**NOTES**

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by Corbin Design or the Owner.

DATE	DESCRIPTION
06.02.21	Submission
07.12.21	Revision
04.01.22	Revision
04.27.22	Revision

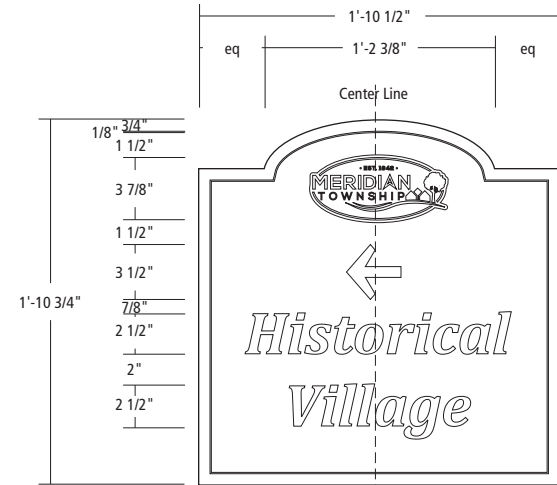


**CORBIN  
DESIGN**

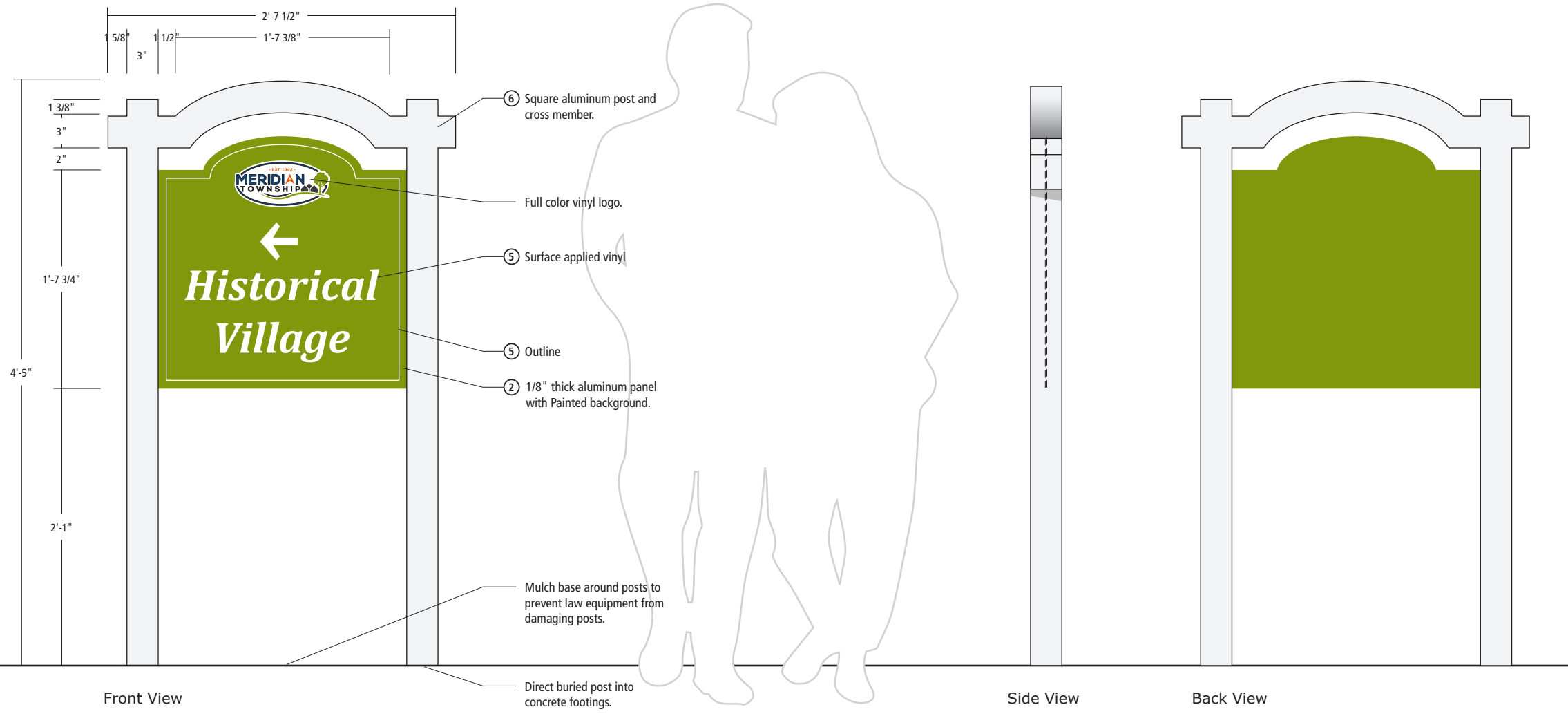
415 S Union, Second Floor  
Traverse City, MI 49684  
(231) 947-1236

FABRICATOR TO PROVIDE  
ENGINEERED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**SINGLE-SIDED SIGN FACE**



Panel Layout Detail



Front View

Direct buried post into  
concrete footings.

Side View

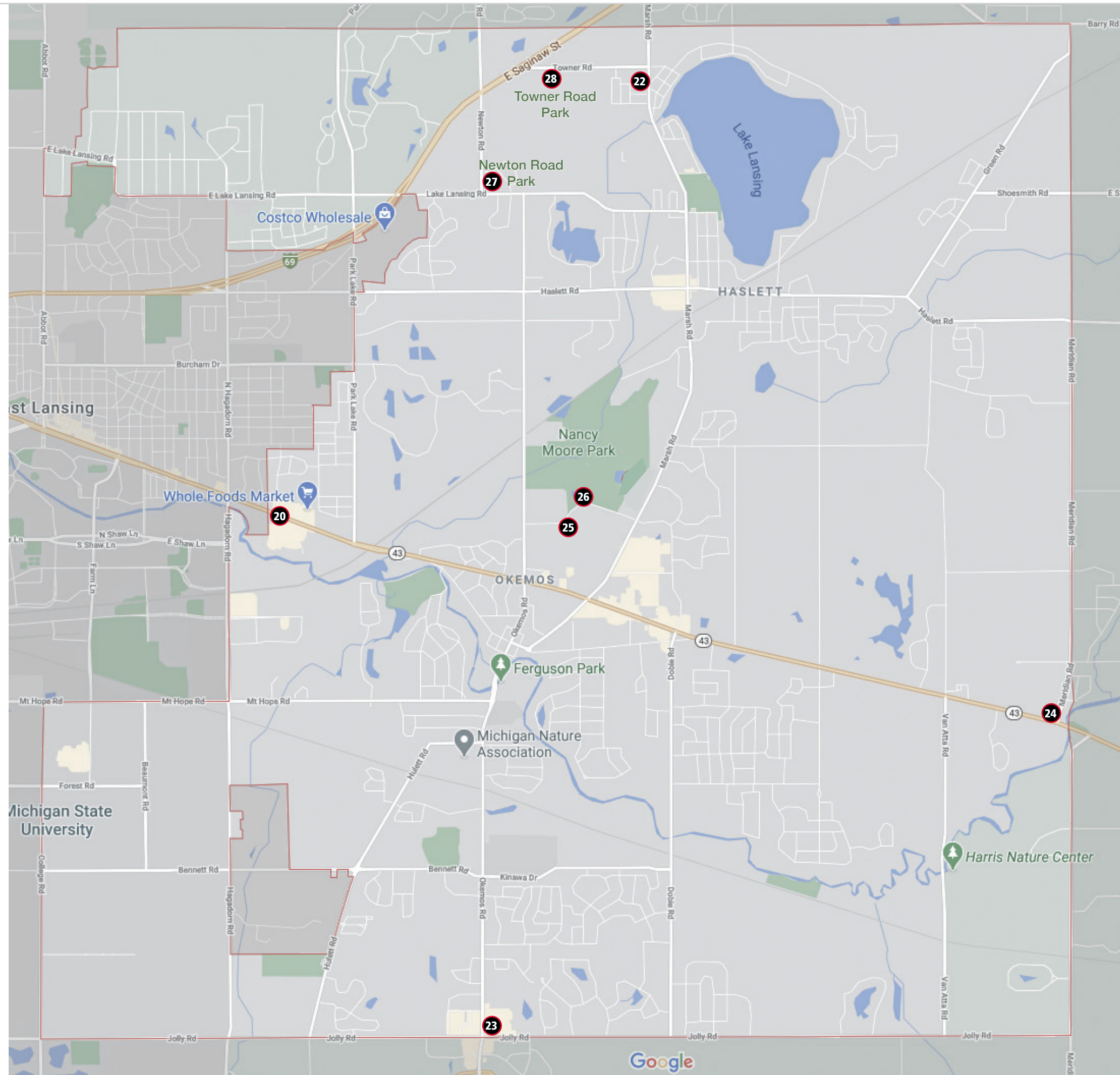
Back View

Mulch base around posts to  
prevent law equipment from  
damaging posts.

# **EXHIBIT B**

**Sign Location Plan (Pages 1-2)**

# Meridian Township Sign Location Plan



DATE	DESCRIPTION
04/28/21	Sign Location Plan
04/18/22	Revision
04/27/22	Revision



415 S Union, 2nd Floor  
Traverse City, MI 49684  
(231) 947-1236



# Municipal Campus Sign Location Plan

5151 Marsh Road  
Okemos, Michigan



DATE	DESCRIPTION
04/28/21	Sign Location Plan
07/29/21	Revision
04/19/22	Revision
04/27/22	Revision



415 S Union, 2nd Floor  
Traverse City, MI 49684  
(231) 947-1236



# **EXHIBIT C**

**Sign Message Schedule (Pages 1-18)**



## Sign Message Schedule

---

**Project Name:** Exterior Sign Message Schedule

**Client:** Meridian Township

**Date Issued:** 4/27/2022

**General Notes:**

FINAL SUBMISSION FOR BID



**001**

**Ix-2b Municipal Campus Identification**

**SIGN MESSAGE**

Municipal Complex  
5151 Marsh Road  
Central Park [green panel]

**NOTES**

Existing sign is internally illuminated. However the power coming into the sign is not located within the foundation.

Demo existing sign.

**Direction:**  
Northwest and Southeast

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Reuse existing, see notes.

**Installation Conditions:**  
Soil



**002**

**Gx-1 Guide, Internal, Multi-Directional**

**SIGN MESSAGE**

- ↑ Police Dept.
- ↑ Nokomis Center
- ← Municipal Building [P]
- ← HOMTV Station [P]
- ↑ Historical Village [green panel]
- ← Central Park [green panel]

**Direction:**  
West

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil



**NOTES**

Align with light post on other side of sidewalk.

**003**

**Gx-1 Guide, Internal, Multi-Directional**

**SIGN MESSAGE**

- ← Police Dept.
- ← Nokomis Center
- ← Historical Village [green panel]

**Direction:**  
Northwest

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil

**NOTES**

"Historical Village" italicized and in green inset panel



004

### Ix-4 Municipal Building Identification

#### SIGN MESSAGE

[Township logo]  
Municipal Building  
5151 Marsh Road  
meridian.mi.us

**Direction:**  
Northwest

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



#### NOTES

Demo existing sign and restore landscaping.  
Install new sign in front of current sign (1-2').



**005**

**Vx-1 Vinyl on Glass**

**SIGN MESSAGE**

[Township logo]  
Municipal Building  
5151 Marsh Road  
meridian.mi.us

**Direction:**  
Northeast

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Glass



**NOTES**

- Owner to provide additional details including hours of operation and regulations.



**006**

**Vx-1 Vinyl on Glass**

**SIGN MESSAGE**

(Police Dept logo)  
Police Department  
5151 Marsh Road  
meridian.mi.us

**Direction:**  
Southwest

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
N/A



# 007

## Ix-4 Municipal Building Identification

### SIGN MESSAGE

[Logo]  
 Police Department  
 5151 Marsh Road  
 meridian.mi.us

**Direction:**  
 Northwest

**Is Demolition Required?:**  
 Yes, see notes.

**Power Requirements :**  
 Non-illuminated

**Installation Conditions:**  
 Soil



### NOTES

- Owner to confirm address.

Demo existing letters on building and repair wall. Install new sign in grass. Evaluate ground lighting or internal illumination (depending on budget). Existing sign is internally illuminated (ground-lit), location of light fixture will need to be moved if a ground sign is installed.

# 008

## Gx-1 Guide, Internal, Multi-Directional

### SIGN MESSAGE

- ➔ Police Dept. [P]
- ➔ Municipal Building [P]
- ➔ HOMTV Station [P]
- ➔ Central Park [green panel]

**Direction:**  
 Northeast

**Is Demolition Required?:**  
 No

**Power Requirements :**  
 Non-illuminated

**Installation Conditions:**  
 Soil



### NOTES

"Central Park" italicized and in green inset panel



**009**

**Vx-1 Vinyl on Glass**

**SIGN MESSAGE**

(Township logo)  
 Municipal Building  
 5151 Marsh Road  
 meridian.mi.us

**Direction:**  
 Southwest

**Is Demolition Required?:**  
 No

**Power Requirements :**  
 Non-illuminated

**Installation Conditions:**  
 Glass



**010**

**Gx-1 Guide, Internal, Multi-Directional**

**SIGN MESSAGE**

- ↑ Exit to Marsh Road
- ← Nokomis Center
- ← Historical Village [green panel]

**Direction:**  
 Southwest

**Is Demolition Required?:**  
 No

**Power Requirements :**  
 Non-illuminated

**Installation Conditions:**  
 Soil



**NOTES**

Install approximately 1-2' from sidewalk.

"Historical Village" italicized and in green inset panel

**011**

**Gx-1 Guide, Internal, Multi-Directional**

**SIGN MESSAGE**

- ↑ Municipal Building
- ↑ Police Dept.
- Nokomis Center
- ↑ Central Park [green panel]
- Historical Village [green panel]

**Direction:**  
Southeast

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil



**NOTES**

Install new sign aligned with the existing light pole.

**012**

**Move Relocate sign**

**NOTES**

Move sign to new location at Parking lot entrance to Village Chapel (last photo). Restore ground of previous location

**Direction:**  
Northeast and Southwest

**Is Demolition Required?:**  
No

**Installation Conditions:**  
Soil





# 014 Ix-2a Municipal Campus ID, Message Board

## SIGN MESSAGE

[Logo]  
[electronic message board]  
Municipal Complex  
5151 Marsh Road  
Historical Village [green panel]

## NOTES

Existing sign is internally illuminated. However, the power coming into the sign is not located within the foundation.

Demo existing sign

**Direction:**  
Northeast and Southwest

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Reuse existing, see notes.

**Installation Conditions:**  
Soil



---

**018**

**MP-2 Municipal Park Identification**

---

**SIGN MESSAGE**

Central Park

**Direction:**  
Southeast

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil



**020**

**Ix-1 Township Welcome Sign**

**SIGN MESSAGE**

[see design intent]

**NOTES**

Replace existing sign with new.

Location address: 2771 Ground River Ave.  
East Lansing, MI 48823

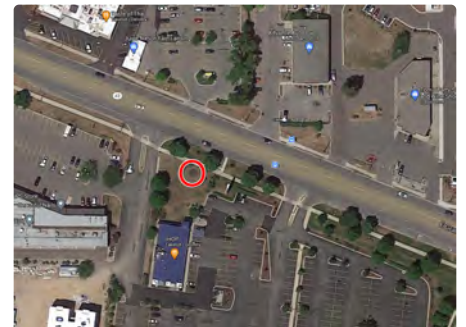
E Grand River Road and IHOP restaurant

**Direction:**  
Northwest

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



**022**

**Ix-1 Township Welcome Sign**

**SIGN MESSAGE**

[see design intent]

**NOTES**

Replace existing sign with new.

Parcel #: 33-02-02-03-180-010

Parcel north of 6311 Marsh Rd., Haslett

**Direction:**  
North

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



**023**

**Ix-1 Township Welcome Sign**

**SIGN MESSAGE**

[see design intent]

**NOTES**

Parcel #: 33-02-02-33-453-011

Okemos Road and Association Drive

**Direction:**  
South

**Is Demolition Required?:**  
No

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



**024**

**Ix-1 Township Welcome Sign**

**SIGN MESSAGE**

[see design intent]

**NOTES**

Grand River Ave and Meridian Road

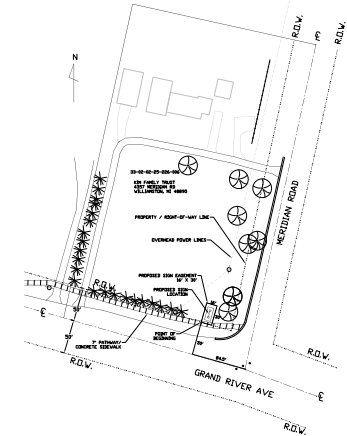
See site plan

**Direction:**  
East

**Is Demolition Required?:**  
No

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



**025**

**Ix-2a Municipal Campus ID, Message Board**

**SIGN MESSAGE**

[logo]  
[electronic message board]  
Marketplace on the Green  
1995 Central Park Drive

**Direction:**  
Northeast and Southwest

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil



**NOTES**

Replace existing sign with new.

1995 Central Park Dr.  
Okemos Road



**026**

**MP-1 Large Municipal Park Identification**

**SIGN MESSAGE**

[Logo]  
Central Park South  
1990 Central Park Drive

**NOTES**

Replace existing sign with new.

1990 Central Park Drive

**Direction:**  
Northwest and Southeast

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Illuminated (power required)

**Installation Conditions:**  
Soil





---

**027**

**MP-2 Municipal Park Identification**

---

**SIGN MESSAGE**

Newton Road Park

---

**NOTES**

6025 Newton Rd.  
East Lansing, MI 48823

**Direction:**  
East and West

**Is Demolition Required?:**  
No

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil



**028**

**MP-1 Large Municipal Park Identification**

**SIGN MESSAGE**

Towner Road Park

**NOTES**

Replace existing sign with new.

2055 Towner Rd.  
Haslett, MI 48840

**Direction:**  
East and West

**Is Demolition Required?:**  
Yes, see notes.

**Power Requirements :**  
Non-illuminated

**Installation Conditions:**  
Soil



# **EXHIBIT D**

**Prevailing Wage Rate Tables D1-D17**

**Exhibit D - Prevailing Wage Rate Tables**

**Building Prevailing Wage Rate Tables - Pages 1-9**

**Heavy Construction Prevailing Wage Rate Tables - Pages 10-17**

**Building Prevailing Wage Rate Tables**

"General Decision Number: MI20220084 07/08/2022

Superseded General Decision Number: MI20210084

State: Michigan

Construction Type: Building

County: Ingham County in Michigan.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract.  . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract.  . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed

	on this wage determination,
	if it is higher) for all
	hours spent performing on
	that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/18/2022
2	02/25/2022
3	04/01/2022
4	06/24/2022
5	07/08/2022

ASBE0047-002 07/01/2021

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 33.77	18.18

BOIL0169-001 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 35.95	34.52

BRMI0009-009 08/01/2020

	Rates	Fringes
BRICKLAYER		
Bricklayer.....	\$ 31.57	22.65
Terrazzo and Tile Finisher..	\$ 22.80	17.54
Terrazzo and Tile Setter....	\$ 26.40	20.08

FOOTNOTE:

Paid Holiday: Fourth of July, if the worker was employed by the contractor in any period of seven working days before

said holiday within the current calendar year.

-----  
CARP1004-004 06/01/2021

	Rates	Fringes
CARPENTER (Soft Floor Layer, Including Carpet & Resilient Flooring).....	\$ 27.39	20.73

-----  
CARP1004-018 06/01/2021

	Rates	Fringes
CARPENTER, Includes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 27.39	20.73

-----  
CARP1102-002 06/01/2020

	Rates	Fringes
MILLWRIGHT.....	\$ 35.30	34.10

-----  
\* ELEC0252-001 06/01/2022

Townships of Bunker Hill, Leslie, Onodaga & Stockbridge

	Rates	Fringes
ELECTRICIAN Alarm Installation & Low Voltage Wiring.....	\$ 33.77	20.61%+10.00
Excludes Alarm Installation and Low Voltage Wiring.....	\$ 48.48	27%+12.25

-----  
ELEC0665-004 05/31/2021

Townships of Alaiedon, Aurelius, Delhi, Ingham, Lansing, Leroy,  
Locke, Meridian, Vevay, Wheatfield, White Oak and Williamson

	Rates	Fringes
ELECTRICIAN Alarm Installation & Low Voltage Wiring.....	\$ 30.00	9.25+5.5%
Excludes Alarm		

Installation & Low Voltage  
 Wiring.....\$ 36.90 25.19

-----  
 ENGI0324-012 06/01/2022

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 44.13	24.85
GROUP 2.....	\$ 40.83	24.85
GROUP 3.....	\$ 38.18	24.85
GROUP 4.....	\$ 36.47	24.85
GROUP 5.....	\$ 36.47	24.85
GROUP 6.....	\$ 30.61	24.85
GROUP 7.....	\$ 28.13	24.85

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 per hour above the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 per hour above the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane operator with main boom and jib 400', 300', or 220' or longer.

GROUP 2: Crane operator with main boom and jib 140' or longer, tower crane, gantry crane, whirley derrick

GROUP 3: Concrete Pump; Crane; Highlift; Hoist; Loader; Roller; Scraper; Stiff Leg Derrick; Trencher

GROUP 4: Bobcat/Skid Loader; Broom/Sweeper; Fork Truck (over 20' lift)

GROUP 5: Boom Truck (non-swinging)

GROUP 6: Fork Truck (20' lift and under for masonry work)

GROUP 7: Oiler

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 IRON0025-001 06/01/2019

	Rates	Fringes
IRONWORKER		

REINFORCING.....	\$ 29.48	27.74
STRUCTURAL (Excluding Metal Building Erection)....	\$ 36.77	29.03

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\* LABO0499-012 06/01/2022

	Rates	Fringes
LABORER Common or General; Grade Checker; Mason Tender - Brick; Mason Tender - Cement/Concrete; Pipelayer; Sandblaster.....	\$ 27.93	12.95

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PAIN0845-001 06/01/2020

	Rates	Fringes
PAINTER: Brush, Roller, Spray and Paperhanging.....	\$ 23.95	15.14
PAINTER: Drywall Finishing/Taping.....	\$ 27.16	16.13

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PLAS0016-011 04/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER....	\$ 24.64	12.88

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PLUM0333-006 06/01/2021

	Rates	Fringes
PIPEFITTER, Includes HVAC Pipe and Unit Installation.....	\$ 40.29	23.83
PLUMBER, Excludes HVAC Pipe and Unit Installation.....	\$ 40.29	23.83

FOOTNOTE:

Paid Holidays: Memorial Day, Independence Day and Labor Day,  
if the employee works the work day preceding and following  
the holiday unless proven illness or injury prevents the  
employee from working.

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ROOF0070-003 06/01/2021

	Rates	Fringes
ROOFER.....	\$ 30.93	16.18



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SFMI0669-001 04/01/2022

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 38.69	24.66

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SHEE0007-004 05/01/2018

	Rates	Fringes
SHEET METAL WORKER (Including HVAC Duct Installation; Excluding HVAC System Installation).....	\$ 32.61	19.66

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\* SUMI2011-009 02/01/2011

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 18.48	7.93
LABORER: Landscape & Irrigation.....	\$ 8.00 **	0.00
METAL BUILDING ERECTOR.....	\$ 16.92	6.32
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 21.34	7.57
OPERATOR: Bulldozer.....	\$ 20.63	8.21
OPERATOR: Grader/Blade.....	\$ 22.00	6.29
OPERATOR: Tractor.....	\$ 19.10	8.48
TRUCK DRIVER: Dump Truck.....	\$ 16.00	7.26
TRUCK DRIVER: Lowboy Truck.....	\$ 14.50 **	0.44
TRUCK DRIVER: Tractor Haul Truck.....	\$ 13.57 **	1.18

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658

(\$11.25). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing

the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can

be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

## Heavy Construction Prevailing Wage Rate Tables

"General Decision Number: MI20220058 07/08/2022

Superseded General Decision Number: MI20210058

State: Michigan

Construction Type: Heavy

County: Ingham County in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p> If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<p> . Executive Order 14026 generally applies to the contract.  . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.</p>
<p> If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<p> . Executive Order 13658 generally applies to the contract.  . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.</p>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/25/2022
2	06/24/2022
3	07/08/2022

CARP1004-017 06/01/2021

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 27.39	20.73

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ELEC0252-007 06/01/2021

Townships of Bunker Hill, Leslie, Onondaga & Stockbridge

	Rates	Fringes
ELECTRICIAN.....	\$ 48.48	27%+12.25

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ELEC0665-015 05/31/2021

Townships of Alaiedon, Aurelius, Delhi, Ingham, Lansing, Leroy, Locke, Meridian, Vevay, Wheatfield, White Oak and Williamson

	Rates	Fringes
ELECTRICIAN.....	\$ 37.50	24.04+5.5%

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ENGI0325-009 09/01/2021

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)

	Rates	Fringes
POWER EQUIPMENT OPERATOR GROUP 1.....	\$ 35.92	24.85

GROUP 2.....	\$ 31.03	24.85
GROUP 3.....	\$ 30.53	24.85
GROUP 4.....	\$ 30.25	24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Grader/ Blade, Loader, Roller, Scraper, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor, Bobcat/ Skid Steer /Skid Loader

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 ENGI0326-011 06/01/2021

EXCLUDES UNDERGROUND CONSTRUCTION

	Rates	Fringes
OPERATOR: Power Equipment		
Group 1.....	\$ 44.13	24.85
Group 2.....	\$ 40.83	24.85
Group 3.....	\$ 38.18	24.85
Group 4.....	\$ 36.47	24.85
Group 5.....	\$ 36.47	24.85
Group 6.....	\$ 30.61	24.85

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 per hour above the group 1 rate.

Crane operator with main boom and jib 400' or longer: \$3.00 per hour above the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane operator with main boom and jib 400', 300', or 220' or longer.

GROUP 2: Crane operator with main boom and jib 140' or longer, tower crane, gantry crane, whirley derrick

GROUP 3: Backhoe/Excavator; Boring Machine; Bulldozer; Crane; Grader/Blade; Loader; Roller; Scraper; Tractor; Trencher

GROUP 4: Bobcat/Skid Loader; Broom/Sweeper; Fork Truck (over 20' lift)

GROUP 5: Boom truck (non-swinging)

GROUP 6: Fork Truck (20' lift and under for masonry work)

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IRON0025-006 06/01/2019

	Rates	Fringes
IRONWORKER		
Reinforcing.....	\$ 30.98	27.99
Structural.....	\$ 36.77	29.03

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LABO0334-013 09/01/2018

SCOPE OF WORK:  
OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

	Rates	Fringes
LABORER		
(1) Common or General.....	\$ 21.94	12.85
(2) Mason Tender- Cement/Concrete.....	\$ 22.08	12.85
(4) Grade Checker.....	\$ 22.25	12.85
(5) Pipelayer.....	\$ 22.39	12.85

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\* LABO0499-024 06/01/2022

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER		
Common or General; Grade Checker; Mason Tender - Cement/Concrete; Pipelayer..	\$ 27.93	12.95

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PAIN0845-017 05/21/2014

	Rates	Fringes
PAINTER: Brush, Roller and Spray.....	\$ 21.89	11.85



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PLAS0016-027 04/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 24.64	12.88

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PLUM0333-020 06/01/2020

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 38.79	23.08

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TEAM0007-011 06/01/2020

	Rates	Fringes
TRUCK DRIVER		
Lowboy/Semi-Trailer Truck...	\$ 28.05	.50 + a+b
Tractor Haul Truck.....	\$ 27.80	.50 + a+b

FOOTNOTE:

- a. \$470.70 per week.
- b. \$68.70 daily.

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\* SUMI2010-056 11/09/2010

	Rates	Fringes
LABORER: Landscape.....	\$ 12.25 **	0.00
TRUCK DRIVER: Dump Truck.....	\$ 18.00	6.43
TRUCK DRIVER: Off the Road Truck.....	\$ 20.82	3.69

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WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

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\*\* Workers in this classification may be entitled to a higher  
minimum wage under Executive Order 14026 (\$15.00) or 13658  
(\$11.25). Please see the Note at the top of the wage  
determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave  
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employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

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## Survey Rate Identifiers

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A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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## WAGE DETERMINATION APPEALS PROCESS

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- \* a survey underlying a wage determination
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With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

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2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

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U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION