

Introduction

McHenry County College (hereinafter “MCC”) is inviting responsible Vendors (hereinafter “Bidder” or “Contractor”) to submit bids for a ***Fabricator/Installer of Donor Recognition Signage, specifically a donor wall installation and signage for permanent named spaces***. A more complete description of the supplies and/or services sought is provided in the Performance Specifications and Plans attached.

Institutional Background

McHenry County College (MCC) is a community college offering pre-baccalaureate programs for students planning to transfer to a four-year university, occupational education leading directly to employment, adult education and literacy programs, work force and workplace development services, and support services to help students succeed. MCC serves one of the fastest growing counties in Illinois, and is located forty-five miles northwest of downtown Chicago. The college is committed to providing high quality, need-based educational and training opportunities to adult residents of Community College District 528. Nearly 250,000 residents live within the MCC district boundaries. The main Crystal Lake campus is located at 8900 U.S. Highway 14, Crystal Lake, IL 60012. Also part of the College is the Shah Center, a corporate training and business development center approximately six miles northeast of MCC in the town of McHenry, Illinois.

Additional Background Information

MCC is in its final construction stages of a new science center on its Crystal Lake campus. The Liebman Science Center will open in Fall 2018 and serve credit students, noncredit students, and community members through innovative STEM education and learning facilities, including:

- Life Science Learning Space/Labs: Anatomy & Physiology, Biology
- Physical Science Learning Space/Labs: Physics, Pre-Engineering, Chemistry, Weather Science/Meteorology, Earth Science/Geology
- Planetarium
- Student Collaboration/Engagement Spaces for Group Discussion and Individual Work
- Outdoor Learning Space, Including a Compass Rose and the Only Geoscene Wall on Display at any Community College in the Nation

MCC has engaged leading signage design consultant, Cardosi Kiper, to build out the concept and design for the Liebman Science Center’s donor recognition, specifically a donor wall installation and permanent signage for named spaces/classrooms throughout the center.

Goal of the Donor Wall: The donor recognition wall will be a permanent installation that recognizes and honors donors who have contributed to the Liebman Science Center project. The wall will balance an artistic nod to science with public recognition and appreciation of those who have provided financial support, all in a linear and non-hierarchical way.

Goal of the Permanent Named Spaces: As this effort been a community-supported project (with nearly ½ of the funds for the project coming from private donations through a capital campaign), it is important to recognize significant donors by naming particular spaces in their honor—and with clear visibility to those who learn in the center.

2.2 Statement of Work

Purpose

Along with a submission of your bid, MCC requests a completed cost sheet WITH signature (see attached Excel Costing Sheet), as well as the following:

- **Projects:** Five (5) projects of similar scope that demonstrate digital printing on glass and incorporating LED lighting
- **Reference:** Three (3) References of similar scope projects
- **Completed Projects:** Reference to any related projects done within the higher education environment
- **Bid Submission:** Along with bid submissions required per bid document, a copy must also be submitted on a flash drive.
- **Bid Bond:** Bid security in the form of a bid bond, certified check, or cash in an amount equal to ten percent (10%) of the base bid amount shall be submitted with the bid. Should a bid bond be submitted, the bid bond shall be payable to the Board of Trustees, McHenry County College.
- **Insurance Requirements:** If fabrication, construction, installation, service or other work is specified to be conducted on MCC's premises, supplier shall maintain in force during the period of such work the following coverage's: (a) worker's compensation, as required by the laws of the State of Illinois; (b) commercial general liability for bodily injury and/or property damage in an amount of not less than \$1,000,000 single limit, per occurrence; (c) automobile liability for bodily injury and/or property damage in an amount of not less than \$1,000,000 single limit, per occurrence. The successful bidder shall provide a certificate of insurance naming McHenry County College as additional insured.
- **Performance and Payment Bond:** For every construction or construction related project greater than Fifty Thousand Dollars (\$50,000), Contractor shall procure a performance and payment bond for the full amount of the contract price (Public Construction Bond Act, 30 ILCS 550/1). Prior to commencement of any work on the Project, Contractor shall submit insurance and bonds. Any provisions contained within the bonds creating a condition precedent for Owner, or abrogating Owner's rights or remedies otherwise available in contract or law, are void.
- **Prevailing Wage Law:** The Illinois Prevailing Wage Act, 820 ILCS 130/01 et.seq. shall be mandatory for all contractors and subcontractors who are hired by the College for construction or construction related services. The Act requires contractors and subcontractors to pay laborers, workers, and mechanics performing services on public works projects no less than the prevailing rate of wages in the county where the work is performed. The Illinois Department of Labor periodically determine what rate is in various locales throughout the State, Illinois Prevailing Wage Act, June 26, 1941, as amended, being Section 39A-9 of Chapter 48 of the Illinois Revised Statutes, 1977.

Project Summary and Goals

Please see the attached Performance Specifications and Plans for detail about the project. In particular, the key goals/efforts of this project are:

- Fabrication of prototypes and shop drawings
- Fabrication of all donor recognition signage and components as indicated in bid package
- Review and installation of all donor recognition signage and components as indicated in package
- Punch list review and change implementation
- Completion of installation in advance of Grand Opening (August 17, 2018)
- Submission of as-built drawings by fabricator

2.3 Key Dates

Date	Activity
June 7	Bids Issued by MCC
June 13	Vendor Questions Submitted 8:00a.m CDT to Jennifer Jones at jjones@mchenry.edu
June 14	Answers to Vendor Questions Posted on Website www.mchenry.edu/bid
June 21	Bids Due: 8:00 a.m. - If by mail: <ul style="list-style-type: none">➤ Jennifer Jones McHenry County College Room A248 8900 US Highway 14 Crystal Lake, IL 60012➤ Mark Envelope: IFB06212018 – Donor Wall Installation
June 21	Bid Opening 8:00 a.m. McHenry County College Bldg A, Room 217
June 22	Bid Analysis
June 25	Interview/Discussion with Finalist Vendors (if necessary)
June 28	Board Meeting with Bid Approval
June 29	Bid Awarded

- .3 terms of special warranties required by the Contract Documents; or
- .4 audits performed by the Owner, if permitted by the Contract Documents, after final payment.

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

§ 9.11 LIQUIDATED DAMAGES

§ 9.11.1 The Contractor is solely responsible for substantially completing the work of the project by the scheduled Substantial Completion Dates. This responsibility includes all work, including that of the Contractor's forces, subcontractors and suppliers. The Contractor acknowledges that the Owner will suffer significant financial loss if the Project is not Substantially Complete on the date(s) set forth in the Contract Documents. The Contractor further acknowledges that the measure of such loss would not be susceptible to precise calculation. To protect the Owner against said loss, the Owner and the Contractor hereby agree that the Contractor and the Contractor's surety, if any, shall be liable for and shall pay to the Owner Liquidated Damages of One Thousand Dollars (\$1,000.00) per calendar day for each day of delay from the Date of Substantial Completion for all work.

§ 9.11.2 Payments of Liquidated Damages are in addition to other damages that may be incurred by the Owner and are not a penalty. All such Liquidated Damages may be set-off against any monies that may be due the ARTICLE Contractor.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

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

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

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

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

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or

Liebman Science Center

Submittal
06.07.18

Donor Recognition Issued for Bid

Mandatory weekly coordination conference calls will take place from June 29th, 2018 - August 24, 2018

Submitted 06.07.18

Fabrication / Installation

BIDDING

3 weeks JUN. 2018

Bids Issued	06.07.18
Bid Questions submittal deadline	06.13.18
Bid Questions answered	06.14.18
Bids Due/Opened	06.21.18, 8am CDT, Room #A217
CKDG/MCC bid analysis	06.22.18
Bid Interviews (if necessary)	06.25.18
Bids taken to Board meeting	06.28.18
Bid Award	06.29.18

SHOP DRAWINGS / PROTOTYPE

1 1/2 weeks JUL. 2018

On-Site Walkthrough	07.02.18 (with CKDG/MCC/Fabricator project manager/installer)
Fabrication of prototypes begins	07.03.18
Shop Drawings Submitted by Fabricator (via pdf)	07.09.18
Shop Drawings Returned by CKDG	07.10.18
Prototypes Submitted by Fabricator	07.10.18
Final Shop Drawings Submitted by Fabricator (via pdf)	07.12.18
Prototype Review Comments by CKDG / MCC	07.12.18 (review of prototypes at McHenry County College)

FABRICATION

4 weeks JUL. - AUG. 2018

Fabrication Begins	07.12.18
Progress review of fabrication by CKDG / MCC*	08.02.18
Fabrication Complete	08.08.18

INSTALLATION

1 week AUG. 2018

Installation Begins	08.09.18
Progress review of installation	08.11.18 (review of fabrication at fabricators facilities)*
Installation Complete	08.13.18

PUNCH LIST

3.5 weeks AUG. 2018

Punch List Review	08.13.18 (with CKDG/MCC/Fabricator project manager/installer)
Punch List Review Submitted by CKDG	08.13.18
Fabricator implements punch list changes	08.16.18
Punch List Items Complete	08.16.18

Donor Reception

08.17.18

As-Built Drawings submitted by Fabricator	08.23.18
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PROJECT COMPLETE

AUGUST 23, 2018

*If fabrication is produced outside of a 200 mile radius from McHenry County College, fabricator shall include line item indicating travel expenses for flight and car rental for (3) three representatives.

SIGNAGE SPECIFICATIONS

SECTION 10 14 23 - PANEL SIGNAGE

McHENRY COUNTY COLLEGE

INTERIOR DONOR WALL AND DONOR RECOGNITION

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PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Section.

1.2 SYSTEM DESCRIPTION SUMMARY

A. Section Includes:
1. Donor Wall
2. Donor Letters

1.3 ALLOWANCES

A. Allowances for signage are specified in Section 01 21 00 "Allowances".

1.4 DEFINITIONS

- A. Accessible: In accordance with the accessibility standard.
- B. Illuminated: Illuminated by lighting source integrally constructed as part of the sign unit.
- C. Sign Contractor: Term used for agent responsible for fabrication, installation, management and coordination of executing work within the documents, and related drawings describe requirements pertaining to signs and graphics, and are hereafter referred to as "Signage".
- D. Owner: All reference herein is defined as "Owner" listed in Project Information.
- E. Administrator: All reference herein is defined as "Administrator" listed in Project Information.
- F. Signage Consultant: All reference herein is defined as "Signage Consultant" listed in Project Information.
- G. Surface: Any horizontal or vertical plane capable of receiving construction activities or finishes, such as walls, ceilings, floors, and sign faces.
- H. Substrate: A substance or layer that underlie something, or on which some process occurs.
- I. V.I.F.: Verify in Field
- J. T.B.D.: To Be Determined
- K. A.F.F.: Above Finished Floor
- L. C.L.: Center Line
- M. O.C.: On Center
- N. O.A.D.: Overall Dimension
- O. M.C.C.: McHenry County College

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- 1.5 COORDINATION
- A. Furnish templates for placement of sign-anchorage devices embedded in permanent construction by other installers.
 - B. Furnish templates for placement of electrical service embedded in permanent construction by other installers.
 - C. Furnish templates for field verification and placement of dimensional lettering prior to installation by Sign Contractor.
 - D. Scheduling: Within 7 business days of being awarded the contract, the Sign Contractor shall prepare and present to the General Contractor / Owner/ Sign Consultant a project schedule that outlines all submittals, reviews, fabrication, and installation.
 - E. The Sign Contractor is responsible for coordinating the schedule of all required work with the General Contractor and for scheduling regular teleconferences / meetings with the Owner / General Contractor / Signage Consultant. The Sign Contractor shall supply an 1) an agenda of outstanding issues and 2) a current schedule update one day in advance of the conference call /meeting.
- 1.6 ACTION SUBMITTALS
- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes. Include manufacturer's written instructions for maintaining and cleaning sign surfaces.
 - B. Shop Drawings:
 1. Fabricate only from reviewed and approved Shop Drawings supplied in electronic PDF format. Prior to submission, verify submittal and re-submittal formats, quantities, and procedures with the Owner and Signage Consultant. Shop Drawing submittals will be returned appropriately stamped. Shop Drawings will be checked only for conformance with the design intent of the project. Approval of the Shop Drawings shall not be construed as permitting any departure from the Contract requirements, as relieving the Contractor of the responsibility for any error in details, dimensions or otherwise, as departure from additional details, bulletins or instructions previously furnished by the Owner, unless same has been specifically approved in writing. Also, Shop Drawing approval shall not relieve the Contractor from responsibility for any errors, which may exist in the item, submitted. If the submitted Shop Drawings show variations from the Contract requirements, make specific reference to such variations on the Drawings and in the letter of transmittal with request for approval. All shop drawings shall indicate each sign type construction and installation condition and shall reflect all dimensions from the Sign Contractor's on site field verification. Any substitutions and modifications shall be made only when accepted in writing by the Owner.
 2. Show the sign face layouts for all sign types and sign locations. Camera-ready art for symbols and logos to be Macintosh based digital files provided on CD by Signage Consultant. Sign face layouts are to be in scale. All sign face layouts are to show actual typographic and symbol layout in solid black graphics on white background with the perimeter of the sign face indicated. Font names and color breaks are to be indicated. Layouts will be reviewed for content, accuracy of alignments, typeface, type weight, letter spacing, word spacing, and symbol quality, and quality of reproduction. Layouts are to be submitted by sign type and in sequential sign location order. All work will be expected to conform to the quality of letterform, spacing and acuity of the samples. The Sign Contractor is responsible for purchasing all required fonts.
 3. If additional review of the Shop Drawings is required after two (2) submittals and two re-submittals, the Owner is to be compensated for any fees or charges for time required to complete subsequent reviews required for acceptance of the Shop Drawings.
 4. Reproduction of any portion of the Signage Consultant Construction Documents for use as submittals or Shop Drawings is unacceptable. Such submittals will be returned un-reviewed.

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- 5. Review and approval of all signage product data, color/material samples, sign face layouts for all sign types, and shop drawings is required prior to construction.
- C. Samples:
1. Submit samples of all materials, alphabets, symbols, colors, finishes, fixtures, fittings, extrusions and hardware as directed by the Owner and Signage Consultant. Color match samples to be provided for each color specified using each graphic technique. Provide color proofs for all digital outputs. The Owner will review the samples and submittals for conformance with the design intent of the project.
 2. The Sign Contractor shall be responsible for the timely delivery of the samples and submittals in good condition, freight prepaid. Submit 3 sets of 6" x 6" samples of the following list, upon approval 1 set shall be return to the Sign Contractor as the final approved control set that established the standards for quality assurance.
 - a. Each type of exposed metal used with specified finish
 - b. Each type of plastic used with specified finish
 - c. Each type of glass used with specified finish
 - d. Each type of screen printing in specified finish
 - e. Each type of exposed visible hardware
 3. All items to be submitted together at one time for comparison to each other.
- D. Prototypes:
1. After shop drawing approvals and prior to commencing fabrication, the Sign Contractor shall fabricate and one prototype for approval of fabrication technique and quality.
 - a. 24" x 24" digital print on back side of glass from donor wall, with screen printed copy on front side.
 - b. 24" x 12" section of donor wall acrylic panels, with screen printed name
 - c. One (1) letter sample of donor letters – acrylic white letters
 - d. One (1) letter sample of donor letters – acrylic blue letters
 3. All items to be submitted together at one time for comparison to each other.
- E. Product / Catalog Data:
Sign Contractor to submit all products or catalog data in electronic format (PDF). Submit only pages pertinent to products used and clearly mark pertinent materials. Mark any data to identify the sign types referenced. Show any required dimensions and or clearances.
- F. Submittal Review:
1. Submittal review for shop drawings, samples and prototypes by the Signage Consultant/Owner will be returned to the Sign Contractor within a set period determined at fabrication kick-off between Owner, Signage Consultant and Sign Contractor. The Signage Consultant/Owner review does not relieve the Sign Contractor of the responsibility to complete all work in accordance with the Design Development Documents.
- G. Message Listings shall be provided for markup and final sign-off by Owner and Signage Consultant prior to fabrication. Copy is to be based on Signage Consultant's Message Schedule and display typestyles. The Sign Contractor is responsible for maintaining the master message schedule including all message changes through the shop drawing review process.
- H. Any work undertaken prior to receipt of written acceptance of the samples and submittals, shall, based upon the acceptance or rejection of the samples and submittals, be corrected at the Contractor's expense. All approvals will be in writing. All materials furnished for the project must be as represented by the approved samples and submittals.
- I. The Sign Contractor is responsible for accurately translating the Adobe Illustrator digital files supplied by the Sign Consultant for use in the completion of all shop drawing submittals. The Sign Contractor is responsible for the preparation of all full size final art required for fabrication

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including but not limited to all symbols, glyphs, icons, type, arrows, photographs as well as touch up required for enlargement. Owner/Sign Consultant reserves the right to reject artwork that fails to meet the standards established in the approved prototypes.

- J. Limitations of Substitutions:
 1. Sign Contractor's requested substitutions for materials, products or components will only be considered for acceptance if the following conditions are met:
 - a. Documented Delivery Problem: Written documentation of a delivery problem that conflicts with the project schedule for fabrication/installation. Delivery problems due to Sign Contractors failure to place orders according to manufactures required lead times will not be considered.
 - b. Documented Equal or Superior Product: Sign Contractor shall provide documentation to support substitution claim, including all data performance specs, testing and warranties.
 - c. Documented Equal with Cost Savings: Sign Contractor shall provide all information in item b, with documentation on cost savings.
 - d. Sign Contractor requests for product substitution will not be considered if there has been a delay in executing subcontract labor agreements.
 2. In the event that a substitution requested during the bid period is approved, the owner will distribute the substitution to the other Bidders but shall not distribute cost savings information.
 3. Substitutions resulting from when direct request by subcontractor or supplier will NOT be considered.
 4. Substitutions will not be considered when indicated on a shop drawing or product data submittal without the prior approval of the Owner/Signage Consultant.
 5. Substitutions requested by the Sign Contractor that require additional studies, submittals or engineering shall be paid by the Sign Contractor. Sign Contractor shall supply in writing that substitutions are approved for use by the McHenry County College, State of Illinois and Department of Public Health. Any fees incur by Architect and Sign Consultant for review of submittals shall be paid by Sign Contractor at no expense to the Owner.
 6. Substitute products shall NOT be order or installed with out written acceptance from the Owner.

- K. Requests for Substitutions:
 1. Sign Contractor shall state the reason for Request for Substitution.
 2. Sign Contractor has investigated and shall provide all product data, specifications and testing and actual product sample to ensure the proposed substitute is equal or superior to the specified product.
 3. Sign Contractor will extend same warranties for substitutions.
 4. Sign Contractor will coordinate the installation of the accepted substitution and, coordinate all changes affected by the substitution.

1.7 INFORMATION SUBMITTALS

- A. Per Bid Instructions, Sign Contractor must list all subcontractors, and work being contracted for as attachment to costing sheet. Sub contractors cannot be changed without pre-approval by owner. It is preferred that a minimum of 50% of the work shall be performed by the Contractor's own forces.

- B. Per Bid Instructions, Sign Contractor must be a firm with at least ten years of successful experience with a minimum of five (5) projects of similar scope. Upon request, the Sign Contractor should provide references, including contact names and telephone numbers, for past projects of similar complexity and scope. Contractor shall be a member of a recognized professional organization including, but not limited to ISA, SEG D or NESA.

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1.8 CLOSEOUT SUBMITTALS

- A. Provide "As-built" drawings for all sign types that reflect the final construction and approved colors and materials.

- B. Provide "As-built" message schedule to reflect all final approved messages as a .PDF document. The Contractor shall be responsible for maintaining correct message order. Correct message order to be shown on the Shop Drawings.

- C. Provide a Maintenance Manual with written maintenance and safety inspection instructions to the Owner outlining proper maintenance procedures for all sign types installed under this Contract. A scheduled maintenance program should include regular inspection of the sign structures for safety defects.
 1. Provide Manual in a 3 ring binder format with 8 1/2 x11' or folded 11"x17" sheets that are tabbed and labelled with all "As-built" drawings.
 2. Provide electronic files of all shop drawing, sign layouts, sign location plans, message schedule, product data sheets, parts lists, warranties, and all other information described in this specifications.
 3. Provide specific manufactures' warranty list with date warranty begins and date of expiration with all contact information including name address and telephone number.
 4. Provide name, addresses and phone number of contact for Sign Contractor and Installer.
 5. Provide a listing of all manufactures paint colors with batch numbers and formulation codes for all paints and coating including contact for paint contractor.
 6. Provide Manufactures recommendations and requirements for maintenance and cleaning, including a comprehensive listing of cleaning solutions NOT to use to prevent any damage to sign that would cause discoloration, clouding of material, cracking and/or crazing.

- D. Sign Contractor to provide to Owner in manufacturer's original packaging and store at the project site where directed the following:
 1. One (1/2) gallon of touch up paint for each of the colors specified.
 2. Provide a listing of extra stock or parts furnished as part of the contract.

1.9 QUALITY ASSURANCE

- A. All work shall comply with the highest relevant industry and trade standards as indicated in the product sections of this specification and ensure that the materials and equipment shall be new and the latest design.

- B. This is a Union project. All work onsite shall be done by skilled Union Labor, especially trained in this type of work. All work performed by the sign fabricator shall be paid prevailing wages.

- C. Per Bid Instructions, submit adequate evidence to the Owner prior to the awarding of the Contract that the items to be furnished will conform completely to the Contract Documents.

- D. Sign Contractor shall comply with all LEED design construction requirements as defined by the Owner / Architect and General Contractor during all phases of on-site work, including but not limited too, use of low VOC materials, construction waste management and construction site air quality.

1.10 FIELD CONDITIONS

- A. Before sign components are delivered to the site, the Sign Contractor to examine the locations in which the signs are to be erected, and report in writing any conditions, which will have an effect on the appearance or design intent of the sign, or prevent proper execution of the work or endanger its permanency. The erection of the sign shall not proceed until such conditions are resolved, corrected or adjusted and Sign Contractor receives written notice.

- B. Sign Contractor to obtain measurements at the site and not from the Drawings for correct lengths of sign supports and other items required to be accurately fitted. Design (subject to review by the Owner), engineer, fabricate and install sign supports and attachments. The Sign

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Contractor will be responsible for the engineering, accuracy of measurements, and the precise fitting and assembly of the finished products. Written dimensions on Drawings shall have precedence over scaled dimensions. Modifications to written dimensions shall be made only when accepted in writing by the Owner.

1.11 WARRANTY

- A. Sign Contractor to warrant to the Owner in writing that the materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted in writing by the Owner, that the work will conform with the requirements of the Design Development Documents and the work will be free of defects not inherent in the quality required or permitted in writing by the Owner. Work not conforming to these requirements, including unauthorized substitutions, may be considered defective. If required by the Owner, furnish satisfactory evidence as to the kind and quality of materials and equipment.
- B. If, within two (2) years after final acceptance of the work, any of the work is found to be defective or not in accordance with the requirements of the Design Development Documents, the work shall be corrected promptly after receipt of written notice from the Owner to do so, unless the Contractor has previously received written acceptance of such condition. Correction of work to be completed at no additional cost to the Owner. This obligation shall survive termination of the Contract. All work to be done at a time convenient to the Owner.
- C. Sign Contractor shall provide a warranty for repair or replacement due to faulty materials, workmanship and design for a minimum from the date of substantial completion for:
 - 1. Vinyl die-cut letters shall be warranted for 5 years against delamination from substrate.
 - 2. Paint finishes shall be warranted for 7 years from chalking and fading.
- D. Warrant to the Owner in writing that the acrylic polyurethane finishes furnished under the Contract will be of good quality, free of defects in appearance or application, will not develop excessive fading or excessive non uniformity of color, will not crack, craze, peel, or otherwise fail as a result of defects in materials or workmanship for a period of five (5) years beginning upon final acceptance by the Owner.
- E. Sheeting Replacement Obligation
 - 1. Where it can be shown that signs with sheeting, supplied and used according to the sheeting manufacturer's recommendations, have not met the performance requirements stated in this Specification, the Contractor shall cover restoration costs as follows for sheeting's shown to be unsatisfactory:
 - a. For ten (10) years after date of installation, the Contractor will replace the sheeting required to restore the sign surface to its original effectiveness. In addition, for seven (7) years after date of installation, the Contractor will cover the cost of restoring the sign surface to its original effectiveness at no cost to the Owner for materials and labor.
- F. Fastening devices and adhesives should be tamper-proof, non-corrosive and warranted as to permanency of performance.
- G. Failure includes: but not limited to: fading, cracking, crazing, warping, bowing, oil-canning, peeling, oxidizing, delaminating, rusting, corroding, improper functioning of electrical devices, loose welds, joints and panels and structural failure because of faulty materials and or workmanship.
- H. Failures during the warranty period shall be repaired or replaced to the satisfaction of the owner.
- I. Products corrected under the warranty shall have a warranty extension of a minimum of one year from the date of correction in addition to the two year warranty.
- J. Warranties shall commence on the date of Substantial Completion, as determined at fabrication kick-off between Owner, Signage Consultant and Sign Contractor.

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PART 2 – PRODUCTS

2.1 GENERAL SIGN CONSTRUCTION

- A. Sign materials, design, sizes and thickness shall be as shown on Drawings and herein specified. Methods of fabrication, assembly and erection, however, unless otherwise specifically stated, shall be at the discretion of the Sign Contractor, whose responsibility it shall be to guarantee satisfactory performance as herein specified.
- B. Sign components, letters, symbols, and logos shall be constructed to present a neat, clean appearance. Edges and corners shall be true and free of saw marks or other defects. All external surfaces of sign components, faces, structural brackets, elements, and pendants to be finished to match colors specified. Owner/Sign Consultant reserves the right to reject any signs that fails to meet the standards established in the approved prototypes.
- C. Sign Contractor to provide interior sign assemblies. Contractor to furnish to the Owner engineering calculations to show that maximum stresses and deflections of signage, and signage support system, do not exceed specified performance requirements under full design loading.
- D. Provide concealed, tamper resistant fasteners and hold open devices (where required) adequate for safety and ease of maintenance.
- E. Anchor bolt sizes and types should conform to the Shop Drawings prepared and stamped by the Contractor's licensed professional structural engineer (where required). All bolts should be properly tightened and equipped with nut-locking devices when structures are erected.
- F. Insofar as practicable, fitting and assembly of the work shall be done in the shop. Work that cannot be permanently shop-assembled shall be completely assembled, marked, and disassembled before shipment, to insure proper assembly in the field. Unless otherwise noted, field joints in the face of signs will not be allowed. Contractor to coordinate sizes of finished assemblies with access limitations to final locations.
- G. Steel and aluminum shall be well formed to shape and size. Fabrication shall leave clean, true lines and surfaces. Carefully match exposed work to produce continuity of line and design. Joints, unless otherwise shown or specified, shall be accurately fitted and rigidly secured with hairline contact. Structural details are schematic and the Contractor shall be responsible for thickness of metal and details of assembly and support to give adequate strength and stiffness.
- H. Welding shall be in accordance with appropriate recommendations of American Welding Society, and shall be done with electrodes and methods recommended by manufacturers of alloys being welded. Type, size and spacing of welds shall be as shown on Shop Drawings. Welds behind finished surfaces shall be so done as to minimize distortion and discoloration on finished side. Weld spatter and welding oxides on finished surfaces shall be removed by descaling or grinding. Unless otherwise shown or specified, all weld beads on exposed polished surfaces shall be ground and polished to match and blend with finish on adjacent parent metal. Remove paint from existing steel members at contact areas and on surfaces with 2 inches of field welds, in order to attach signage steel supports. At attachments to exposed steel, grind exposed field welded joints smooth and restore to match factory finishes.
- I. Welding shall be executed by experienced, certified operators with proper equipment and training and who have been qualified previously by tests as prescribed in the American Welding Society's "Standard Qualification Procedure" to perform the work required.
- J. Source Quality Control:
 - 1. Obtain primary materials from a single manufacturer.
 - 2. Provide secondary materials only as recommended by manufacturer of primary materials.
 - 3. Do not change source or brands of materials during fabrication.

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- K. Reference Standard: Where more stringent requirements than those described in the Drawings and/or specifications are set forth under codes, law and/or ordinances of Federal, State and local governing bodies having jurisdiction, Sign Contractor shall notify the Owner in writing before proceeding with work. Work is subject to the applicable portions of the following standards:
 - 1. All work shall comply with the State of Illinois and the McHenry County College codes and ordinances.
 - 2. AWS D1.1 "Structural Welding Code", American Welding Society
 - 3. SSPC SP-6 "Surface Preparation Specification No. 6, Commercial Blast Cleaning, Steel Structures Painting Council
 - 4. SSPC PA-1 "Painting Application Specifications", Steel Structure Painting Council
 - 5. "Aluminium Finishes for Signage Consultanture", Aluminium Association
 - 6. "Code of Standard Practice of Steel Buildings and Bridges", AISC
 - 7. "Specifications for Design, Fabrication and Erection of Structural Steel Buildings", AISC
 - 8. American Society for Testing and Materials (ASTM):
 - a. ASTM 46 - "General Requirements for Delivery of Rolled Steel, Shapes, Sheet Piling and Bars for Structural Use"
 - b. ASTM B209 - "Aluminium and Aluminium Alloy Sheet Plate"
 - c. ASTM B221 - "Aluminum and Aluminum Alloy Wire, Rod, Bar, Shapes and Tube; Extended"
 - d. ASTM B241 - "Aluminum and Aluminum Alloy Tube; Extended, Seamless"
 - e. ASTM E1164 - Standard Practice for Obtaining Spectrophotometric Data for Object Color Evaluation
 - f. ASTM E308 - Standard Method for Computing the Colors of Objects by Using the CIE System
 - g. ASTM E284 - Standard Definition of Terms Relating to Appearance of Materials
 - h. ASTM D4956 - Standard Specification for Retro reflective Sheeting for Traffic Control
 - i. ANSI/ASTM E329 - Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
 - 9. "Specifications for Assembly of Structural Joints Using High Strength Steel Bolts" as approved by the Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation
 - 10. "Handbook on Bolt, Nut and Rivet Standards", Industrial Fasteners Institute
 - 11. "Steel Structures Painting Manual, Volume 2, Systems and Specifications" SSPC
 - 12. All signage to comply with applicable sections of the Americans with Disabilities Act (ADA) and the Illinois Accessibility Standards (IAC).
 - 13. Contractor to comply with all applicable regulations of the Occupational Safety and Health Administration (OSHA).
 - 14. AASHTO M68 - "Standard Specification for Retro reflective Sheeting for Traffic Control"
- M. Typography: Letter weight to match Design Intent Drawing specifications. Sign face layouts shown on the Drawings are for reference only. Shop Drawings to show letterforms with inter-letter and inter-word spacing per the standards for the font used. Legends shall include letters, numbers, arrows, symbols, glyphs, icons, logos, graphics, borders, characters, typography, and other applications shown for sign panels. Enlargement or reduction of artwork applications shall be done photographically. Hand-cut masks or templates will not be accepted. Contractor to submit samples of all alphabets, symbols, arrows, and logos for review and approval prior to fabrication. Font name(s) and color breaks/application to be indicated on the Shop Drawings.
- N. Letterforms: shall be executed in such a manner that all edges and corners of letterforms and symbols are true, clean, and photographically precise and must accurately reproduce the letterforms.
- O. Symbols: Symbols, glyphs, icons and logos to match standards as shown. Original art for all symbols/glyphs/icons, and logos to be supplied by Signage Consultant. Symbols and logos shall be executed in such a manner that all edges and corners are true, clean, and photographically precise and must accurately reproduce the symbol or logo.

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- 2.2 PAINTING AND FINISHING
 - A. Paint to be applied per manufacturer's instructions. Protective coating primer system to be shop applied. Steel material shall be shop coated with 1 coat of primer. Surfaces that will be inaccessible for painting after assembly or installation shall be given 2 shop coats of primer. Provisions should be made for proper handling at all stages of the painting shipping storing and erection for protection of primed surfaces from damage or soiling.
 - B. Shop painting shall not be performed on the following surfaces: (Protect these surfaces with a rust inhibiting coating readily removable prior to erection.)
 - 1. On contact surfaces within two inches of field welds.
 - 2. On contact surfaces.
 - 3. On milled bearing surfaces.
 - C. Colors listed for application using paint/coating specified. Color numbers refer to the Drawings. Submit appropriate samples for review and approval. Owner to have sole authority to determine whether match is accurate.
 - D. Aluminum and steel shall be prepared by cleaning in accordance with SSPC SP-1 and shop painted with primer and finish coats using paint material specified for sign frames and structures.
 - E. After being ground and polished, or where subject to severe forming operations, stainless steel surfaces shall be cleaned of all extraneous material, thoroughly rinsed with clean water and dried. Lubricants used in fabrication shall be removed before work leaves the shop.
 - F. Field touch up primer after erection (all interior surfaces including bolted connections nuts, and washers, etc.) one coat.
 - G. Protection of metals against galvanic action shall be provided wherever dissimilar metals are in contact with galvanized steel. All metals except galvanized steel and stainless steel, which will be in contact with concrete, mortar, plaster, or other masonry, shall also be protected. Protection shall consist of providing stainless steel fasteners and, if concealed, of painting the contact surfaces with a heavy brush coat of bituminous paint.
 - H. Products:
 - 1. Aliphatic Polyurethane Enamel: Low VOC M.A.P. High Solids Acrylic Polyurethane System, Matthews Paint Co, Pleasant Prairie, WI 53158. (1-800-323-6593) Manufacturer's specification MPC108.
 - 2. Clear topcoat over all painted surfaces: Matthews VOC clears topcoat products, gloss level to be determined by application.
 - 3. Gloss level of finish shall be as indicated on drawings.
 - I. Application and Finish:
 Coatings shall be applied by an applicator having facilities, equipment and experience required to apply the finish to manufacturer specifications. All substrates shall be cleaned of any foreign substance such as oil, grease, dirt, etc.
 - 1. Aluminum components to receive painted finish: All faces shall be etched to give an even satin finish and remove oxidation, then conversion coated to improve paint adhesion and inhibit corrosion. Surface shall be belt-sanded for a smooth finish, edges filed and ground then immersed in hot alkaline cleaner to remove contamination.
 - 2. Provide manufacturer's Recommended System as appropriate for specific substrates and applications.
 - 3. An acid-wash prime coat shall be applied per manufacturer's specifications when using raw metal as a substrate.
 - 4. A primer / filler seal coat shall be properly applied to all substrates per manufacturer's specifications.
 - 5. Primer / filler coat shall be sanded smooth before top coating and coated with a minimum of two applications of acrylic polyurethane in colors as indicated on the drawings. Top coating shall be applied per manufacturer's recommendations to a minimum total dry film thickness of 2.0 mil.

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- 6. All painting shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.
- 7. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes.
- 8. Adhesion: No removal of any finish after 1/16" cross-hatching to base metal, impacting to the point of metal rupture, and subjecting to application and quick removal of cellophane tape.

- J. Pigmented (Opaque) Finishes:
Completely cover to provide an opaque, smooth surface of uniform color, appearance, and cover. Cloudiness, spotting, holidays, laps, brush marks, orange peel, runs sags, or other surface imperfections will not be acceptable

- 2.3 SILKSCREENING
 - A. Provide highly quality fine mesh photographic screens. Hand cut screens will not be accepted. Screens shall be fine mesh fabric as required.
 - B. Silkscreen inks to be compatible with specified substrates and finishes. Do not blend materials from different manufacturers.
 - 1. Acceptable Silkscreen Ink Manufacturers:
 - a. Naz Dar
 - b. Akzo Coatings
 - c. Spraylay Corp.
 - 2. Inks for use with 3M Sheeting
 - a. 3M 880 Series Ink and thinner for use with Series 3990 and 3870 3M Sheeting
 - b. 3M 3900, 9700 UV Series ink for Scotch Cal 7725 and 3650

- 2.4 DIGITAL PRINTING
 - A. Digital Flatbed
 - 1. Acuity Advanced X2.
 - 2. Rigid print format: 98.4" wide x 120" length edge to edge printing.
 - 3. Max. substrate thickness: 1.89"
 - 4. Print technology: Proprietary Piezoelectric UV inkjet head using variable-dot grayscale imaging technology; 4 color (CMYK) with two print heads per color.
 - 5. Resolution: Variable droplet sizes from 6 to 30 picoliters.
 - 6. Rip: ColorGATE Production Server (Fujifilm Edition), Version 5.3 or later. ONYX ProductionHouse Workflow Software, Version 7.0 or greater.
 - 7. Sericol Uvijet UV Inks: Uvijet KI Ink range is a high quality UV curable inkjet system, for Piezo Drop-on-Demand print heads, specifically developed for use with the Acuity Series of printers from Fujifilm. (CMYK + W) KI-215/2L Cyan, KI-052/2L Yellow, KI-004/2L Black, KI-867/2L Magenta, KI-021/1L White.

- 2.5 METAL MATERIALS
 - A. Aluminum Extrusions:
 - 1. Conform to ASTM B- 221, Alloy 6063-T6. Shapes, sizes and weights of members shall be a required for structural stability. All connections of aluminum members shall be heli-arc welded, continuous fillets, and ground smooth on all exposed faces, unless specifically detailed otherwise.
 - 2. Finishes as shown on drawings.
 - B. Aluminum Finishes:
 - 1. Finishes shall be consistent in color and surface appearance throughout the project.
 - 2. Matte finish - clear anodized: AA M12 C22 A41. Except as otherwise indicated or directed by Designer, use this type finish for all exposed aluminum.
 - 3. Matte finish - color anodized: AA M12 C22 A42.
 - 4. Bright finish - clear anodized: AA M21 C31 A41.

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- C. Aluminum Sheet and Plate:
 - 1. Type 5052-H-32 alloy aluminum, thickness as indicated on drawings.
- D. Stainless Steel:
 - 1. Type 302 or 304, to meet ASTM A167.
 - 2. Exposed surfaces shall be No. 4 finish, unless otherwise indicated.
 - 3. Unexposed surfaces shall be mill finish.
- E. Stainless Steel Tubing:
 - 1. Type 300 Series, to meet ASTM A269 or ASTM A312.
 - 2. Exposed surfaces shall be No. 4 finish unless otherwise indicated.
 - 3. Unexposed surfaces shall be mill finish.
- F. Metal Thickness:
 - Provide metal thickness indicated on drawings. When metal thickness is not indicated on drawings, provide thickness most appropriate for the fabrication condition to prevent warping or distortion.
 - 1. For sheet steel not indicated, use not less than 20 gauge.
 - 2. For non-ferrous metal not indicated, use not less than 0.063" thickness.
- G. Corrosion Protection:
 - Coat concealed surfaces, which will be in contact with concrete, stone, masonry, wood, or dissimilar metals, in exterior work, with a heavy or double coat of bituminous paint.

- 2.6 PLASTIC MATERIALS
 - A. Acrylic:
 - Provide cast (not extruded) methyl methacrylate Monomer plastic sheet with a minimum flexural strength of 16,000 psi, when tested in accordance with ATSM D790, minimum allowable continuous service temperature of 180 degrees F.
 - 1. Provide solid sheet, laminated sheet, or cast acrylic in size, thickness, clarity, opacity, texture, and color required for work or specified in Contract Documents.
 - 2. Edges shall be free of saw marks, chips, and to be square to face of material. All edges are to be smooth unless otherwise specified.
 - 3. Transparent Sheet: Where indicated as "Clear" provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.
 - 4. White Translucent Sheet: Where indicated as "White" provide white translucent sheet of density required to provide uniform brightness and minimum halation.
 - 5. Colored Translucent Sheet: Where indicated as "Colored", provide white translucent sheet of density required to provide uniform brightness and minimum halation.
 - 6. Frosted Acrylic: Where indicated as "Frosted" provide clear acrylic sheet with matte finish: Rohm & Haas # P-95 or approved equal.
 - 7. Cement for acrylic plastic: No. 4 cement by Industrial Polychemical Co.
 - B. Suppliers:
 - 1. Plexiglas: Rohm and Haas Company
Independence Mall West, Philadelphia, PA 19105
215-592-3000, 800-523-7500
 - 2. Ram Acrylic: Ram Product
111 North Centerville Road, PO Box 340, Sturgis, MI 49091
800-253-2065
 - 3. Lucite Cast Acrylic: ICI Acrylics, Inc.
3411 Silverside Road, McKean Building,
PO Box 15391, Wilmington DE 19850
800-4- LUCITE

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- C. Polycarbonate:
Tuffak by Rohm and Haas, or Lexan by General Electric.
 1. Provide with scratch and ultra-violet coating
 2. Transparent Sheet: Where indicated as "Clear" provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the displayed image.
- 2.7 ADHESIVE VINYL FILM
 - A. Computer-generated Vinyl Graphics:
 1. Non-reflective: Pressure-sensitive adhesive type, .0035 inch thickness minimum, .006 inch thickness maximum, 3M "Scotch Cal" series OR APPROVED EQUAL.
 2. Reflective: Pressure sensitive adhesive type, .0065 inch minimum, .0075 inch maximum, 3M "Scotch lite" engineer-grade series OR APPROVED EQUAL.
 3. "Matte Finish" applied to vinyl shall be a Matthews Acrylic Polyurethane clear coat mixture: 80% satin clear 42228-SP, 20% matting clear SOA955-SP.
 - B. Manufacturer:
 1. 3M Commercial Graphics Division,
3M Center Building, 220-6W-06
St. Paul, MN 55144
800-328-3908
 - C. All inks, paints dyes, and other materials used in the process will be compatible and guaranteed against discolorations, deterioration or delamination.
- 2.8 ADHESIVES
 - A. Adhesive Tape:
3M #4945 VHB double-faced foam tape. Thicknesses and widths of tapes shall be as required to safely secure signs to various wall finishes, but in no case shall be less than 1/16 inch thick and 1/2 inch wide.
 - B. Liquid Adhesive:
Silicone Silastic 732 RTV adhesive/sealant as manufactured by Dow Corning.
- 2.9 HARDWARE
 - A. All hardware at, on and within signs to be stainless steel unless noted otherwise in manufacturer's documentation for specified product.
 - B. Care shall be taken to prevent dis-similar metal connections with appropriate shim/gasketing as required.
 - C. Every piece and type of hardware used on the entire project, including all sign mounting hardware, is to be thoroughly documented. Information is to include hardware type, dimension, thread sizes, material, strength rating and identification number. ID number example is McMaster Carr catalogue number, or equal.
 - D. Unfinished Threaded Fasteners
 1. ASTM A 300 Series Grade A non-magnetic stainless steel.
 2. Tamper resistant screws – Stainless steel, tamper resistant drilled spanner drive screws or equal as approved by Owner and Signage Consultant.
 - E. Bolts, Nuts, Clips, and Washers: ASTM A 325 or ASTM A 307; galvanized to ASTM A 153 for galvanized components.
 - F. Locks: Universal locking mechanism as approved by Signage Consultant (where locking mechanisms are required)
 - G. Expansion Anchor Devices: Lead-shield or Toothed-steel, drilled-in expansion bolt anchors.

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- 2.10 LIGHTING
 - A. LED Strip Lighting
 1. 5-year Warranty
 2. UL Listed (cULus)
 3. High CRI of 80+
 4. Fully Dimmable
 5. 120° Beam Angle
 6. 12V DC Input
 7. Highest Brightness - Up to 266 Lumen/ft (871/Meter)
 8. Efficiency up to 92 lm/W
 9. 36 LEDs / Foot (120 / Meter)
 10. Short LED pitch of 5/16" (8mm)
 11. Environmental Temperature -4°F to +104°F (-20°C to 40°C)
 - B. LED Light Dimmer
 1. Operation temperature: -20-60°C
 2. Input Voltage: 12V/24V DC In and out
 3. Weight: 86g
 4. Size: 94 x 64 x 64 mm [3.7" x 2.52" x 2.52"]
 5. Max. load current: 8 Amp
 - C. Transformer
 1. Constant Voltage + Constant Current mode output
 2. Metal housing
 3. Built-in active PFC function •IP67 / IP65 rating for indoor or outdoor installations
 4. Function options: output adjustable via potentiometer; 3 in 1 dimming
 5. Typical lifetime > 62000 hours
 6. 7 years warranty
 - D. Manufacturers
 1. Flexfire LEDs; www.flexfireleds.com
 2. Mean Well Transformers; <http://www.meanwell.com>

PART 3 – EXECUTION

- 3.1 EXAMINATION
 - A. Signage Consultant / Owner shall be allowed to observe progress work at the Sign Contractor's location pending notification and coordination of visit. Sign Contractor to coordinate a site visit at substantial completion in order to examine conditions under which the signage is to be installed.
 - B. Sign Contractor shall inspect installation locations for conditions that adversely affect installation and shall not proceed with installation until unsatisfactory conditions have been corrected. Notify the Owner in writing of any unsatisfactory conditions.
 - C. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between the backs of signs and support surfaces unless otherwise indicated.
 - D. verify that electrical service is correctly sized and located to accommodate signs (where required).
 - E. Proceed with installation only after unsatisfactory conditions have been corrected.
 - F. Protection: Mask off and protect all finished building surfaces, which may be stained, damaged or adversely affected by installation of the signs.
 - G. Clean and prepare all finished surfaces and suitably protect until acceptance by Owner.

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3.3 INSTALLATION

- A. Properly and legally remove from the site and dispose of all rubbish and debris resulting from the work.
- B. Obtain all necessary licenses and permits.
- C. Before delivery to the site, each sign shall be tagged or labeled with Sign Contractor's name, sign type, level/floor, and sign location installation number as shown on the Drawings. Labeling shall be both on the sign and the protective covering. Labels on the signs shall be hidden when the sign is installed (unless otherwise specified) or shall be removed without damage to the sign at time of installation.
- D. Sign Contractor to arrange with the Construction Manager to provide adequate, secure, locked storage for signs, which have been delivered to the site but not yet installed. If adequate storage space is not available, the Sign Contractor is to coordinate delivery of the signs to coincide with installation.
- E. Sign Contractor shall provide for on-site project manager to supervise installation crews and will provide daily update on installation progress.
- F. Prior to sign installation, sign contractor shall coordinate x-raying or will utilize pachometer technology to identify locations of the hidden reinforcement in the concrete prior to drilling any hole deeper than 1/2". If the investigation of the concrete identifies existing reinforcement will interfere with the planned mounting location of the signage, the sign contractor shall immediately notify the Construction Manager and is not permitted to relocate any of the signs without written authorization.
- G. Install signs level and plumb.
- H. Provide for all anchors and fasteners required to secure signs. All anchors/fasteners shall be appropriate for the anchorage condition and be non-corrosive type. Any signs that require cutting building surfaces shall be coordinated with the Owner and General Contractor. Sign Contractor shall be responsible for repairing and patching affective area.
- I. Surfaces under adhesive-applied signs shall be smooth, clean and free of dust, oil, fingerprints and foreign matter. All adhesives required shall be used in accordance with the manufacturers specifications. Signs shall be permanently installed unless otherwise indicated in shop drawings. No adhesives, which will fade, discolor or delaminate as a result of ultraviolet light or heat shall be used.
- J. Installation of temporary signs shall use low tack adhesive to prevent wall damage upon removal.
- K. After installation, clean soiled sign surfaces and installation area. Remove dirt, dust, fingerprints, shavings, adhesives, packing materials, etc.
- L. Where applicable, all attic stock ordered is to be packaged separately and packaged by sign type with installation instructions and all mounting hardware and adhesives for varying field conditions. If not specified for removal from the site and proper disposal by the General Contractor, the Sign Contractor is to arrange with the Owner to provide secure, locked, long term storage for all Attic Stock signs, sign structures or materials taken down, removed or dismantled.

3.4 COMPLETION

- A. The work shall be under the charge and care of the Contractor until final acceptance of the work by the Owner (ie. Substantial Completion), including all Punch List work. The work shall

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not be considered as completed and accepted until written notice is received from the Owner confirming the completion and acceptance of all work, including Punch List work.

- B. Upon completion and before final acceptance of the work, the Contractor shall provide a complete set of drawings and digital files for all signs and sign locations showing As Built conditions. Drawings and digital files shall be formatted as specified by the Owner. As Built Drawings to include changes between the work as shown in the Contract Documents and Shop Drawings indicating the work as actually installed and any specific information, locations, or dimensions not included in the Contract Documents.
- C. All digital files, silk-screens, patterns, and models are to be preserved and shall become the property of the Owner.
- D. Punch List:
When the Sign Fabricator has completed their own internal review for completion and considers the work to be acceptable to the Owner / Sign Consultant as substantially complete; the Sign Contractor produce a punch list and attach it to a letter requesting an inspection. Upon receipt of the Sign Contractor's Punch list and written request, the Sign Consultant/ Owner shall perform a punch list inspection of the work. Additional items may be added to the Sign Contractor's Punch List as a result of this construction. "New Work" items will be addressed as such.
- E. The Sign Contractor shall provide the "As-Built" message Schedule to the Sign Consultant /Owner for the Punch list Document and/or coordinate this work with other locations that call for as-built documentation after Substantial Completion. Upon completion of the Punch List review the sign Consultant shall issue to the Owner and Sign Contractor a listing of what is complete and describing the work that is not acceptable.
- F. All items listed on the Punch list that need to be completed shall be remedied within a 3 week period from the date of the issued Punch list. This is for signs on the base contract and does not pertain to additional signs added as a result of the Punch list walk through.
- G. If the Sign Contractor does not proceed with the correction of work after a reasonable time fixed by written notice from the Owner, the Owner may have the work corrected. The cost for the corrections is to be deducted from the payments due to the Sign Contractor. If payments due the Sign Contractor are not sufficient to cover such amounts, the Sign Contractor shall pay the difference to the Owner. If there are no payments due the Sign Contractor, the Contractor shall pay the entire amount of the cost of the corrections to the Owner.
- H. Sign Contractor to remove from the site and properly dispose of, at his own expense, portions of the work, which are defective, or not in accordance with the requirements of the Contract and are neither corrected by the Sign Contractor nor accepted by the Owner.

END OF SECTION 10 14 23

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Adobe Garamond Regular

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z

Institutional



Pantone 267 CVC
Pantone 268 CVU
CMYK: 88, 99, 1, 0
RGB: 75, 49, 144
Web: #4b3190



Pantone 1235 CVC
Pantone 115 CVU
CMYK: 0, 29, 91, 0
RGB: 253, 187, 48
Web: #fdbb30

Secondary



Pantone 7454 CVC
Pantone 7454 CVU
CMYK: 64, 34, 16, 0
RGB: 100, 146, 181
Web: #6492b5



Pantone 376 CVC
Pantone 368 CVU
CMYK: 60, 4, 100, 0
RGB: 116, 184, 67
Web: #74b843



Pantone 3125 CVC
Pantone 3125 CVU
CMYK: 84, 0, 18, 0
RGB: 0, 174, 199
Web: #00b0c7



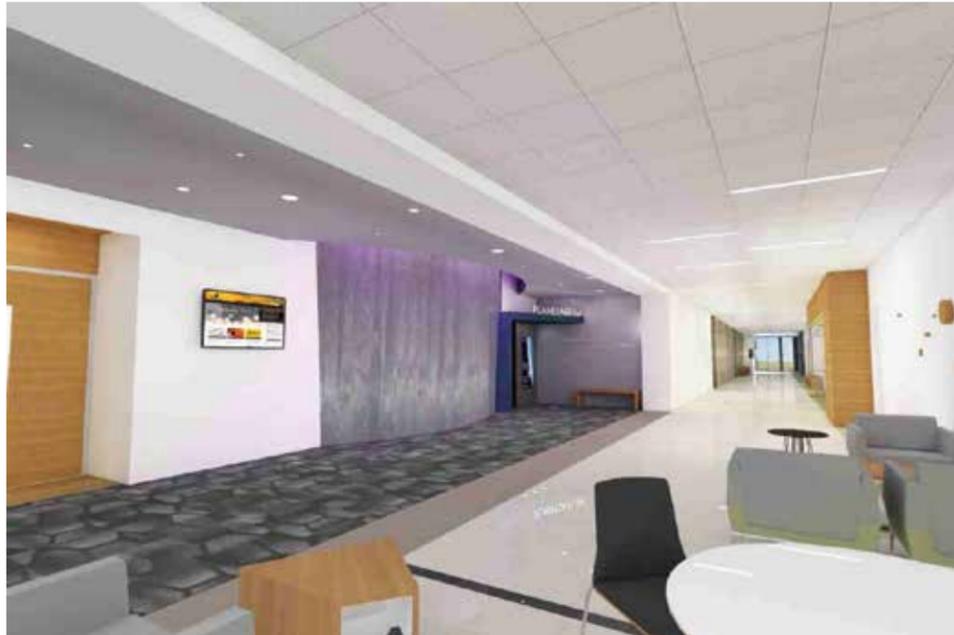
Pantone 1805 CVC
Pantone 1805 CVU
CMYK: 22, 97, 89, 13
RGB: 175, 40, 46
Web: #af282e

Avenir Black

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z

Avenir Medium

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
a b c d e f g h i j k l m n o p q r s t u v w x y z



LEVEL 2 - PLANETARIUM ENTRANCE



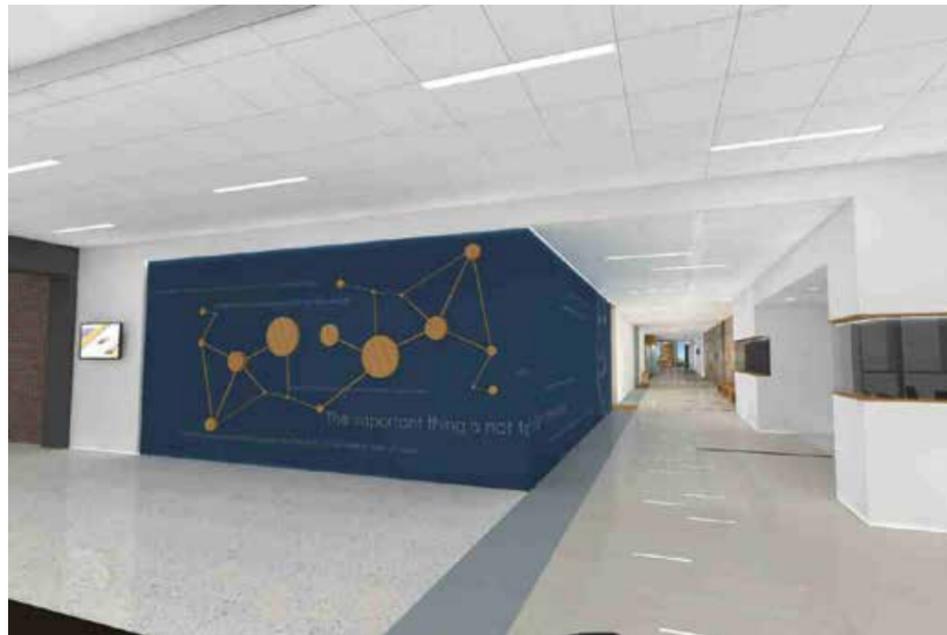
LEVEL 1 - COMMONS



LEVEL 1 - CORRIDOR / WALL GRAPHICS



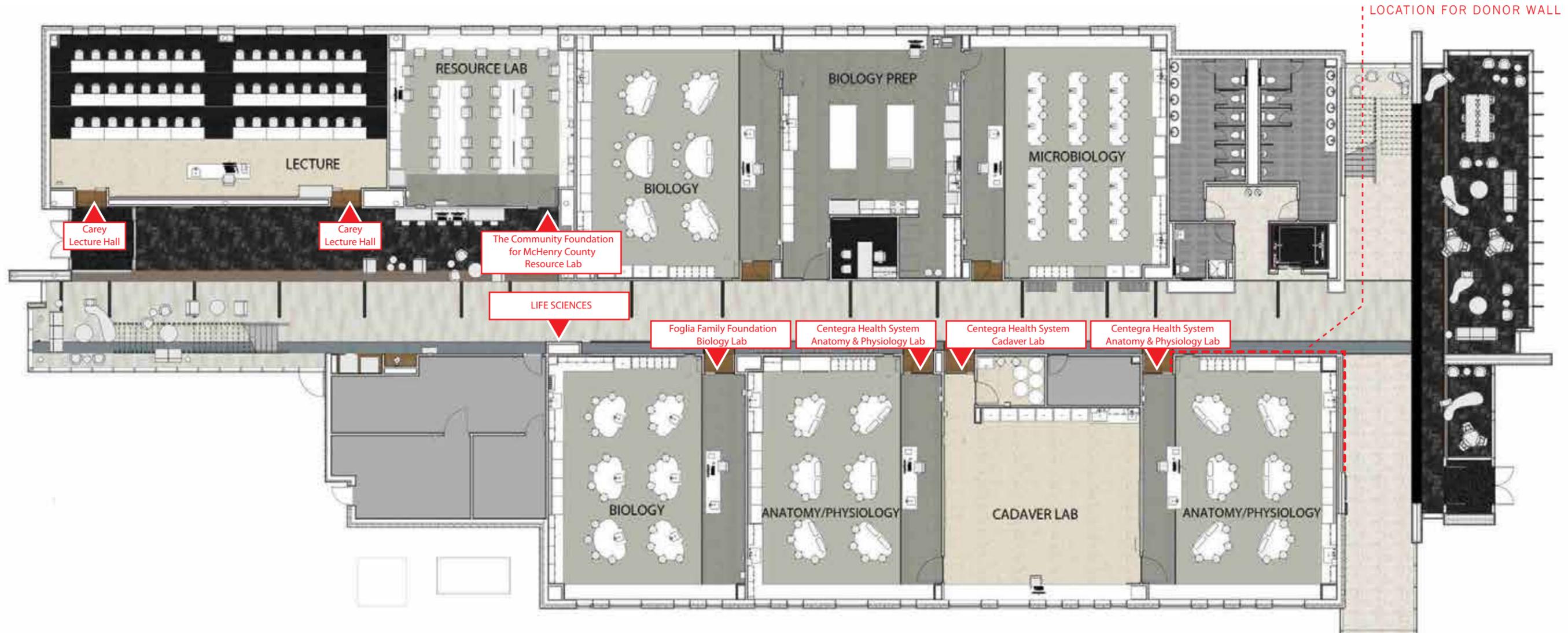
LEVEL 2 - WEATHER OFFICE

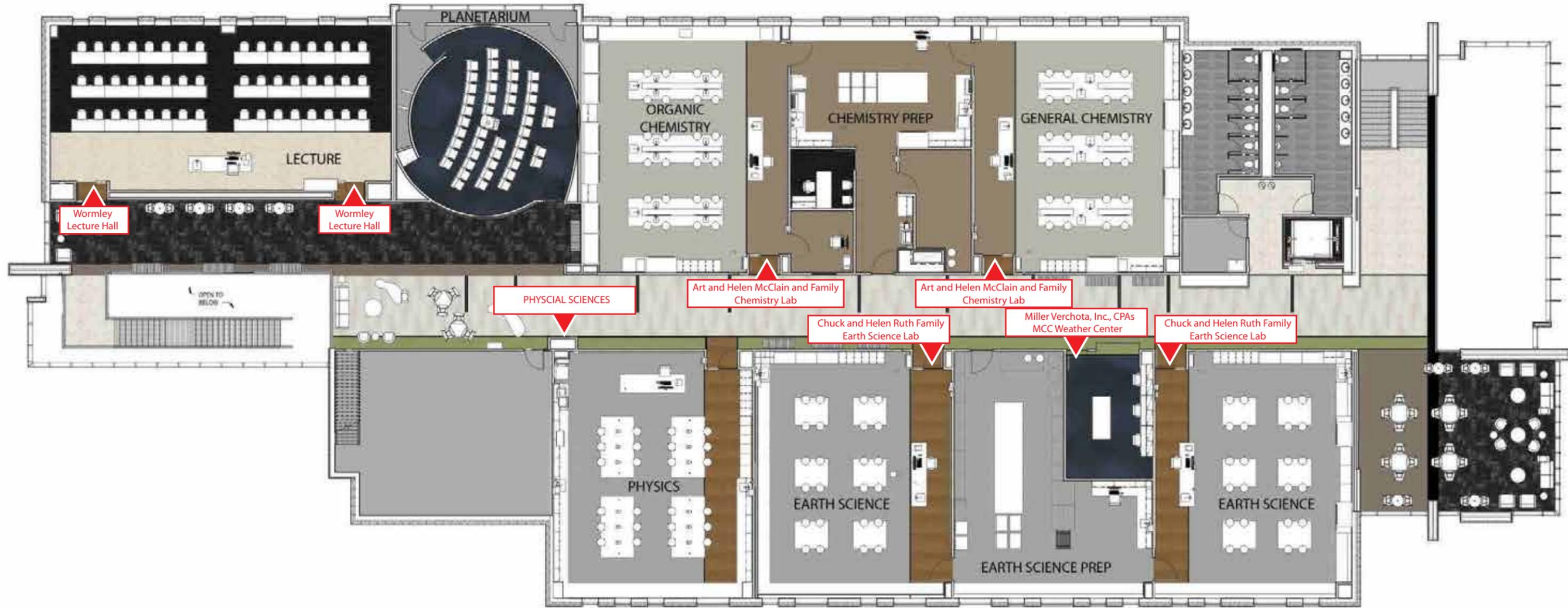


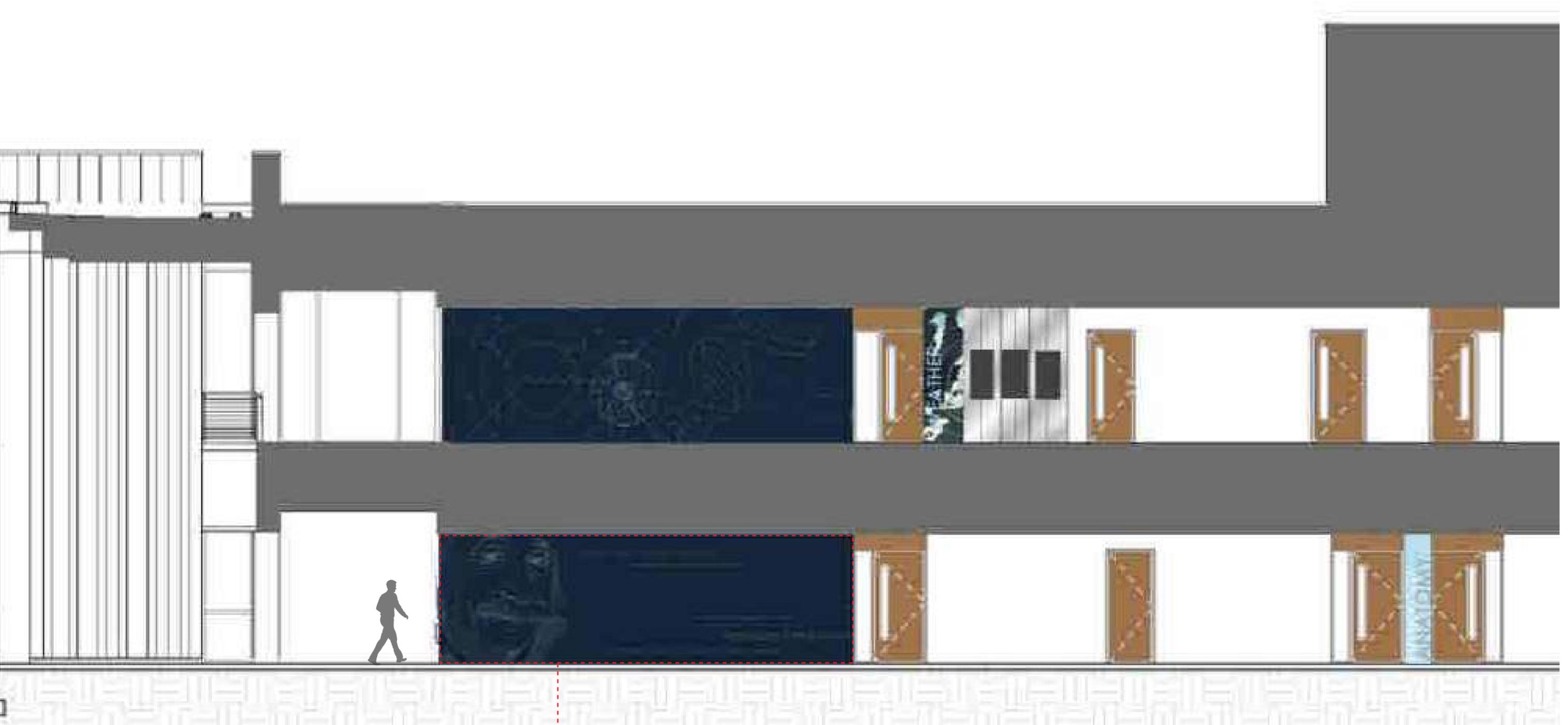
LEVEL 1 - EAST ENTRANCE



LEVEL 1 - CORRIDOR / WALL GRAPHICS







LOCATION FOR DONOR WALL



ENTRY TEXT/DONOR WALL WRAP

NAMED SPACES

- 1st Floor*
- 2 locations* CAREY **Lecture Hall**
 - 1 location* THE COMMUNITY FOUNDATION FOR MCHENRY COUNTY **Resource Lab**
 - 1 location* FOGLIA FAMILY **Foundation Biology Lab**
 - 2 locations* CENTEGRA HEALTH SYSTEM **Anatomy & Physiology Lab**
 - 1 location* CENTEGRA HEALTH SYSTEM **Cadaver Lab**
- 2nd Floor*
- 2 locations* WORMLEY **Lecture Hall**
 - 2 locations* ART AND HELEN MCCLAIN AND FAMILY **Chemistry Lab**
 - 2 locations* CHUCK AND HELEN RUTH FAMILY **Earth Science Lab**
 - 1 location* MILLER VERCHOTA, INC., CPAS **MCC Weather Center**

DONOR WALL

- Note:
This listing
is sorted by
alphabetical
order*
- American Community Bank & Trust
 - Larry Arndt
 - Terri Berryman
 - Tom and Julie Carey
 - Centegra Health System (*future will be changed to Centegra/Northwestern*)
 - Christina Coclanis-Loding
 - Lynn Cowlin
 - Crystal Lake Bank & Trust Company, N.A.
 - Demonica Kemper Architects
 - Marianne Devenny
 - Brian DiBona
 - Mark Dougher
 - Dr. Beverly D. Dow
 - Theodore Erski
 - Brock Fisher
 - Foglia Family Foundation
 - Charles R. Follett
 - Full Circle Foundation
 - Clint Gabbard
 - Marla Garrison
 - Golden Eagle Community Bank
 - James C. Gray
 - Chris Gray
 - Mark and Christina Haggerty and Family
 - Kate Harger
 - Home State Bank, N.A.
 - Cynthia S. Kissner
 - Michael W. Klingenberg
 - Kate Kramer
 - Vernon Manke
 - Art and Helen McClain and Family
 - McHenry County College Staff Council
 - The Community Foundation for McHenry County
 - Miller Verchota, Inc., Certified Public Accountants
 - Dale D. Morton
 - Kristi Patterson
 - Pepper Construction
 - Charles Liebman and Family
 - Prairie Community Bank
 - Steven D. Rankins
 - Sherry Ridge
 - Rotary Clubs of McHenry County
 - Chuck and Helen Ruth Family

- Sage Products, *Now part of Stryker.*
- Julie Sherwood
- Michael Smith
- Geary Smith
- Pat Stejskal
- Jonnie Jo Sullivan
- Patrick Sullivan
- Maria Taydem
- TC Industries, Inc.
- Bob Tenuta
- Bev Thomas
- Dianna K. Torman
- Molly H. Walsh
- Willow Springs Foundation
- Cheryl and Jim Wormley

58 LISTINGS

CORRIDOR WALL



IMAGE REFERENCES

RENDERING

1/2" thick laser cut clear acrylic dimensional letter with backed up opaque WHITE Face and returns sprayed with matte clear applied to glass surface with full sheet adhesive.

28'-0" V.I.F.

25'-0"

4'-0" V.I.F.

5'-0" V.I.F.

5'-0" V.I.F.

5'-0" V.I.F.

5'-0" V.I.F.

4'-0" V.I.F.

A'

D

D

A

ELEVATION
SCALE: 3/8" = 1'-0"

Height of panel to panel to align with architectural lines directly across the hallway.

Electrical to be located at this location. Remote transformer to be located in ceiling

Back painted glass or panels with attached to wall with stand-offs

Fabricated aluminum frame with acrylic tiles that have screen printed names first surface

Back lit-edge lighting

WITH APPRECIATION TO OUR GENEROUS COMMUNITY OF SUPPORTERS

3'-0" V.I.F.
2'-4"
2 1/4" 4 5/8"
2'-6" V.I.F.
8'-8" V.I.F.
9'-0" V.I.F.
3'-6" V.I.F.
4"

CORRIDOR WALL - GLASS PANEL SIZING

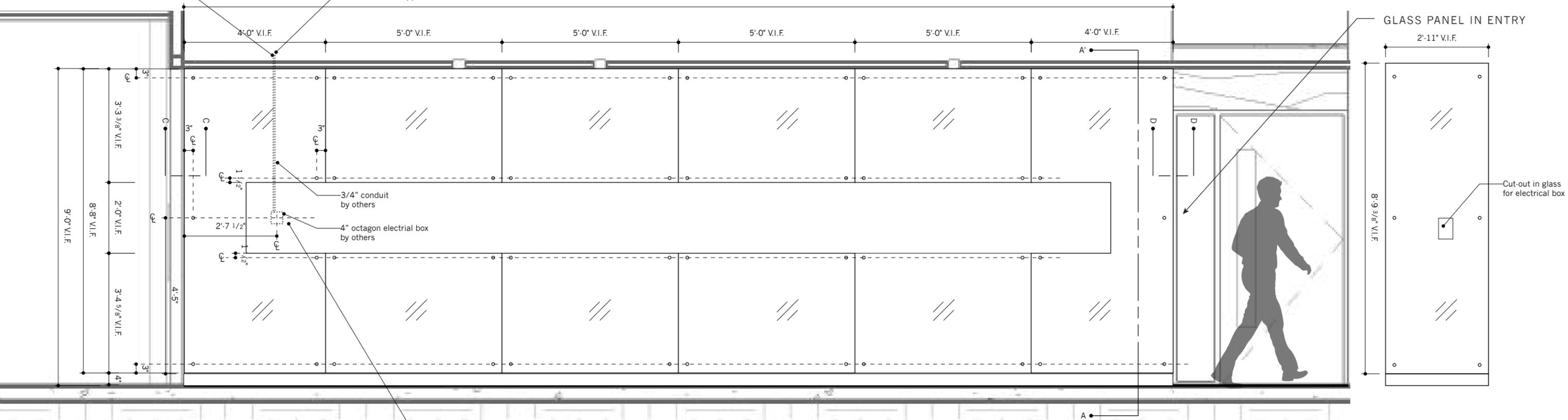


Fabricator to provide low voltage transformer and low voltage wire to display

RENDERING

Contractor to provide electrical and outlet in accessible location above ceiling tile panel in this approximate location.

28'-0" V.I.F.



GLASS PANEL IN ENTRY

2'-11" V.I.F.

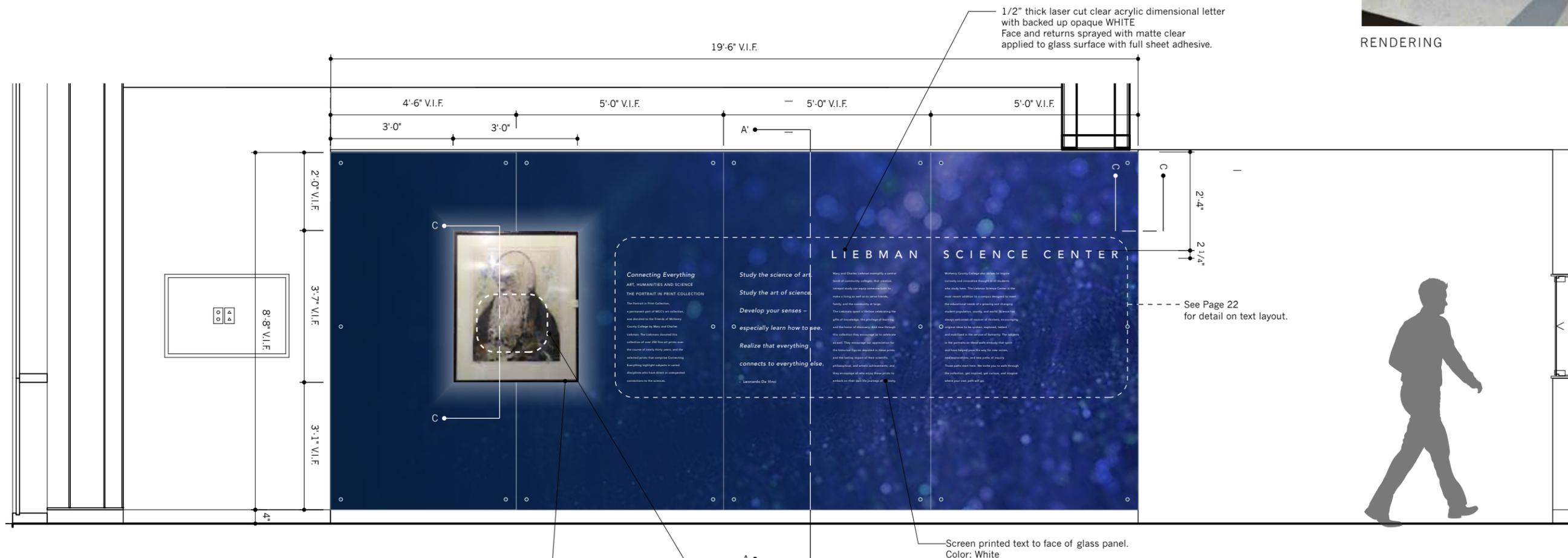
Cut-out in glass for electrical box

ELEVATION
SCALE: 3/8" = 1'-0"

Electrical to be located at this location.
Remote transformer to be located in ceiling.
Owner to provide junction box and conduit to this location
Fabricator to provide and pull low voltage wiring from ceiling location to tie into transformer and lighting.



RENDERING



ELEVATION
SCALE: 3/8" = 1'-0"

Framed Art to be provided by MCC
Fabricator to coordinate mounting and additional
framing elements needed to modify for
lighting elements

Electrical to be located at this location.
Remote transformer to be located in ceiling

Connecting Everything

ART, HUMANITIES AND SCIENCE

THE PORTRAIT IN PRINT COLLECTION

The Portrait in Print Collection, a permanent part of MCC's art collection, was donated to the Friends of McHenry County College by Mary and Charles Liebman. The Liebmans donated this collection of over 250 fine art prints over the course of nearly thirty years; and the selected prints that comprise Connecting Everything highlight subjects in varied disciplines who have direct or unexpected connections to the sciences.

Study the science of art.

Study the art of science.

Develop your senses –

especially learn how to see.

Realize that everything

connects to everything else.

- Leonardo Da Vinci

L I E B M A N

Mary and Charles Liebman exemplify a central tenet of community colleges: that creative, intrepid study can equip someone both to make a living as well as to serve friends, family, and the community at large.

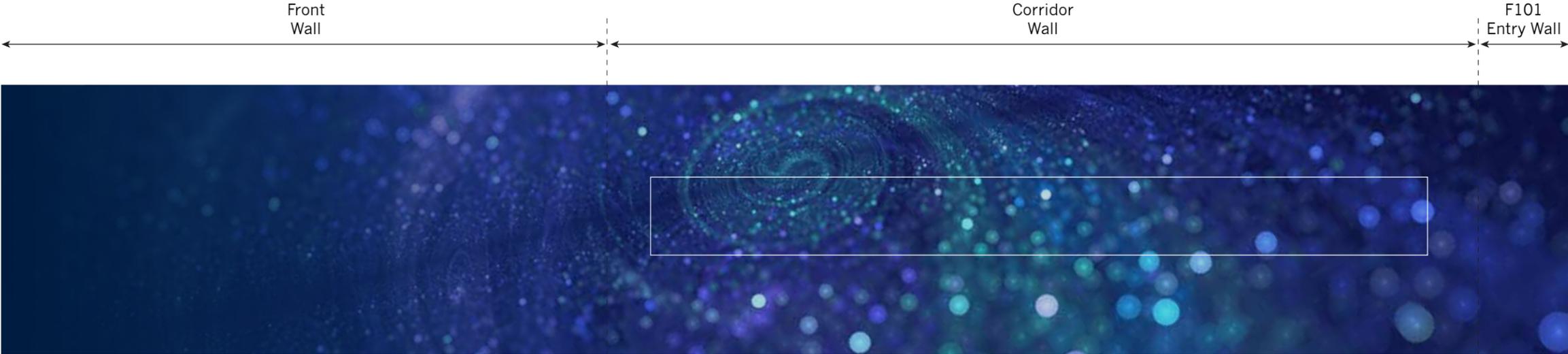
The Liebmans spent a lifetime celebrating the gifts of knowledge, the privilege of learning, and the honor of discovery. And now through this collection they encourage us to celebrate as well. They encourage our appreciation for the historical figures depicted in these prints and the lasting impact of their scientific, philosophical, and artistic achievements, and they encourage all who enjoy these prints to embark on their own life journeys of curiosity.

S C I E N C E C E N T E R

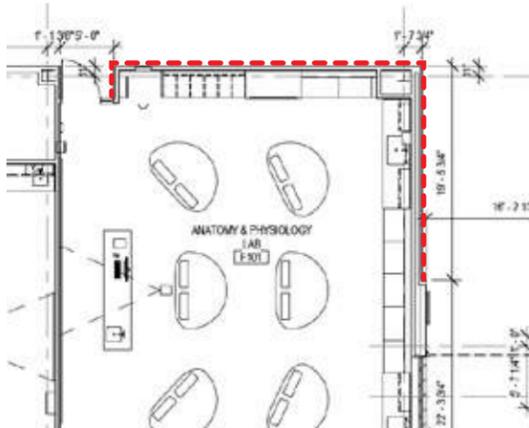
McHenry County College also strives to inspire curiosity and innovative thought in all students who study here. The Liebman Science Center is the most recent addition to a campus designed to meet the educational needs of a growing and changing student population, county, and world. Science has always welcomed all manner of thinkers, encouraging original ideas to be spoken, explored, tested, and mobilized in the service of humanity. The subjects in the portraits on these walls embody that spirit and have helped pave the way for new voices, new explorations, and new paths of inquiry. Those paths start here. We invite you to walk through the collection, get inspired, get curious, and imagine where your own path will go.

ELEVATION
SCALE: N.T.S.

BACKGROUND GLASS OVERVIEW



ELEVATION OVERVIEW



PLAN VIEW



FULL SIZE Recognition Strip

Names are screen printed to front surface of glass.



Color Application



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
2	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
3	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
4	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
5	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
6	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
7	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
8	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
9	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
10	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
11	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
12	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
13	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
14	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
15	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
16	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
17	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
18	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
19	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
20	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
21	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
22	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
23	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
24	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
25	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
26	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
27	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
28	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
29	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							
30	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Green	Red							

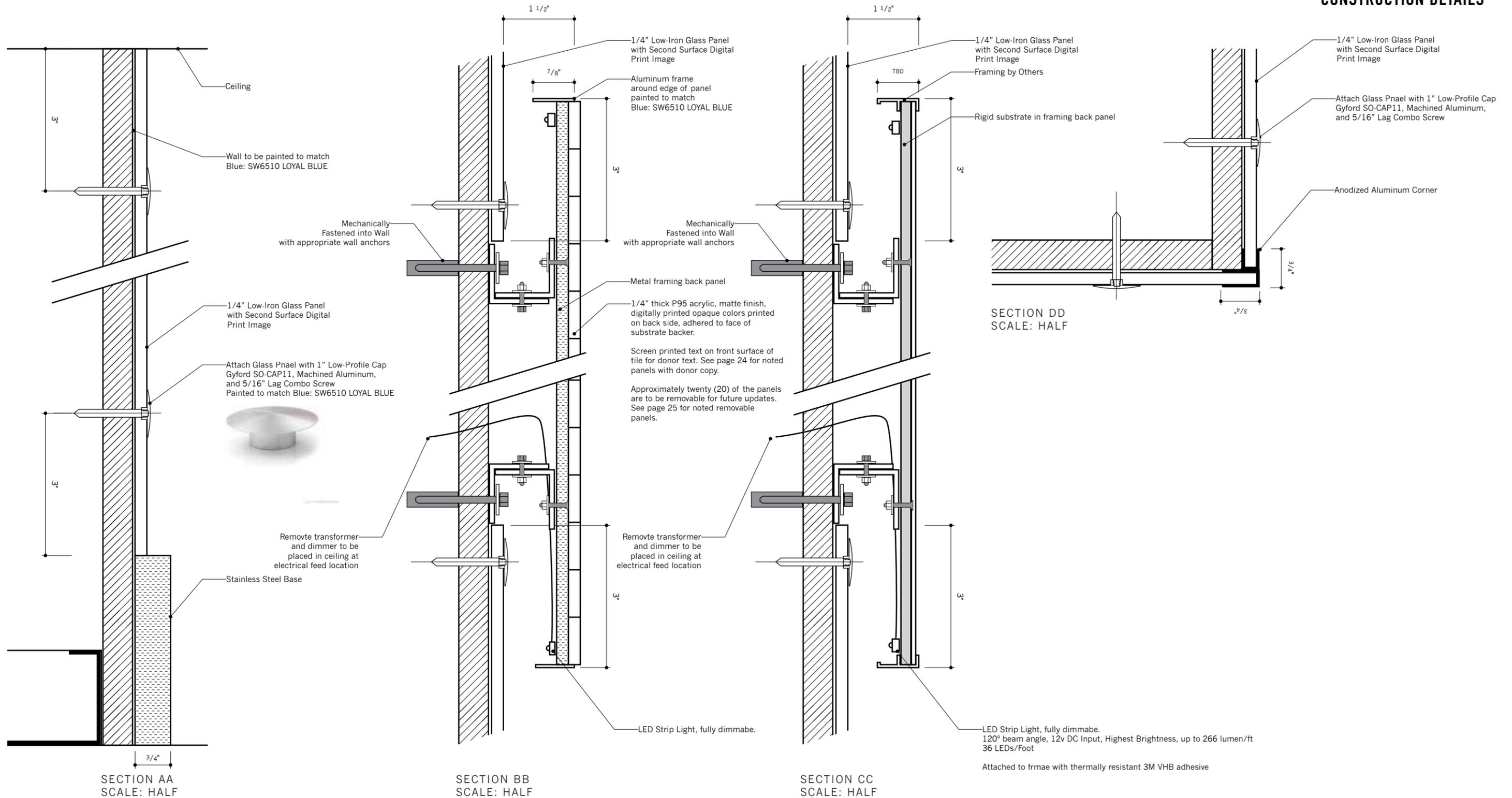
- 58 Names Initial Installation
- 20 Removable Panels for Future Changeout

ELEVATION
SCALE: 1/2" = 1'-0"

DONOR NAMES

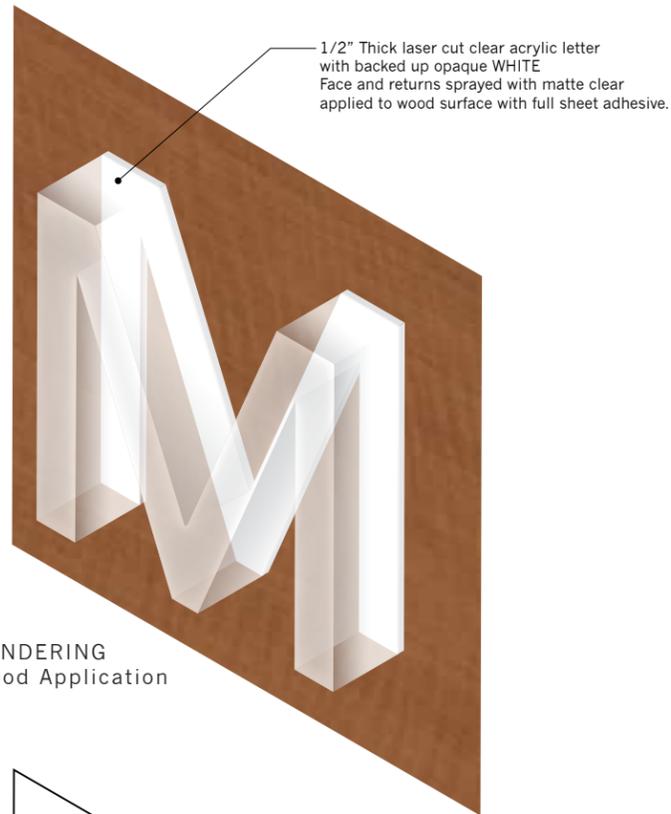
AMERICAN COMMUNITY BANK & TRUST	CHRIS GRAY	JULIE SHERWOOD
LARRY ARNDT	MARK AND CHRISTINA HAGGERTY AND FAMILY	MICHAEL SMITH
TERRI BERRYMAN	KATE HARGER	GEARY SMITH
TOM AND JULIE CAREY	HOME STATE BANK, N.A.	PAT STEJSKAL
CENTEGRA HEALTH SYSTEM	CYNTHIA S. KISSER	JONNIE JO SULLIVAN
CHRISTINA COCLANIS-LODING	MICHAEL W. KLINGENBERG	PATRICK SULLIVAN
LYNN COWLIN	KATE KRAMER	MARIA TAYDEM
CRYSTAL LAKE BANK & TRUST COMPANY, N.A.	VERNON MANKE	TC INDUSTRIES, INC.
DEMONICA KEMPER ARCHITECTS	ART AND HELEN MCCLAIN AND FAMILY	BOB TENUTA
MARIANNE DEVENNY	MCHENRY COUNTY COLLEGE STAFF COUNCIL	BEV THOMAS
BRIAN DIBONA	THE COMMUNITY FOUNDATION FOR MCHENRY COUNTY	DIANNA K. TORMAN
MARK DOUGHER	MILLER VERCHOTA, INC., CERTIFIED PUBLIC ACCOUNTANTS	MOLLY H. WALSH
DR. BEVERLY D. DOW	DALE D. MORTON	WILLOW SPRINGS FOUNDATION
THEODORE ERSKI	KRISTI PATTERSON	CHERYL AND JIM WORMLEY
BROCK FISHER	PEPPER CONSTRUCTION	
FOGLIA FAMILY FOUNDATION	CHARLES LIEBMAN AND FAMILY	
CHARLES R. FOLLETT	PRAIRIE COMMUNITY BANK	
FULL CIRCLE FOUNDATION	STEVEN D. RANKINS	
CLINT GABBARD	SHERRY RIDGE	
MARLA GARRISON	ROTARY CLUBS OF MCHENRY COUNTY	
GOLDEN EAGLE COMMUNITY BANK	CHUCK AND HELEN RUTH FAMILY	
JAMES C. GRAY	SAGE PRODUCTS	

CONSTRUCTION DETAILS

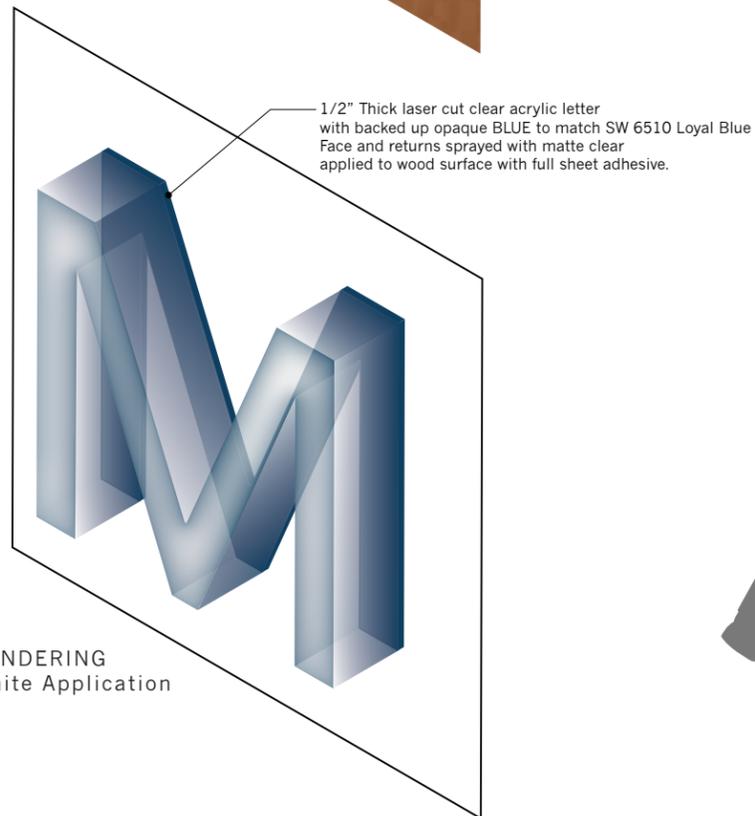




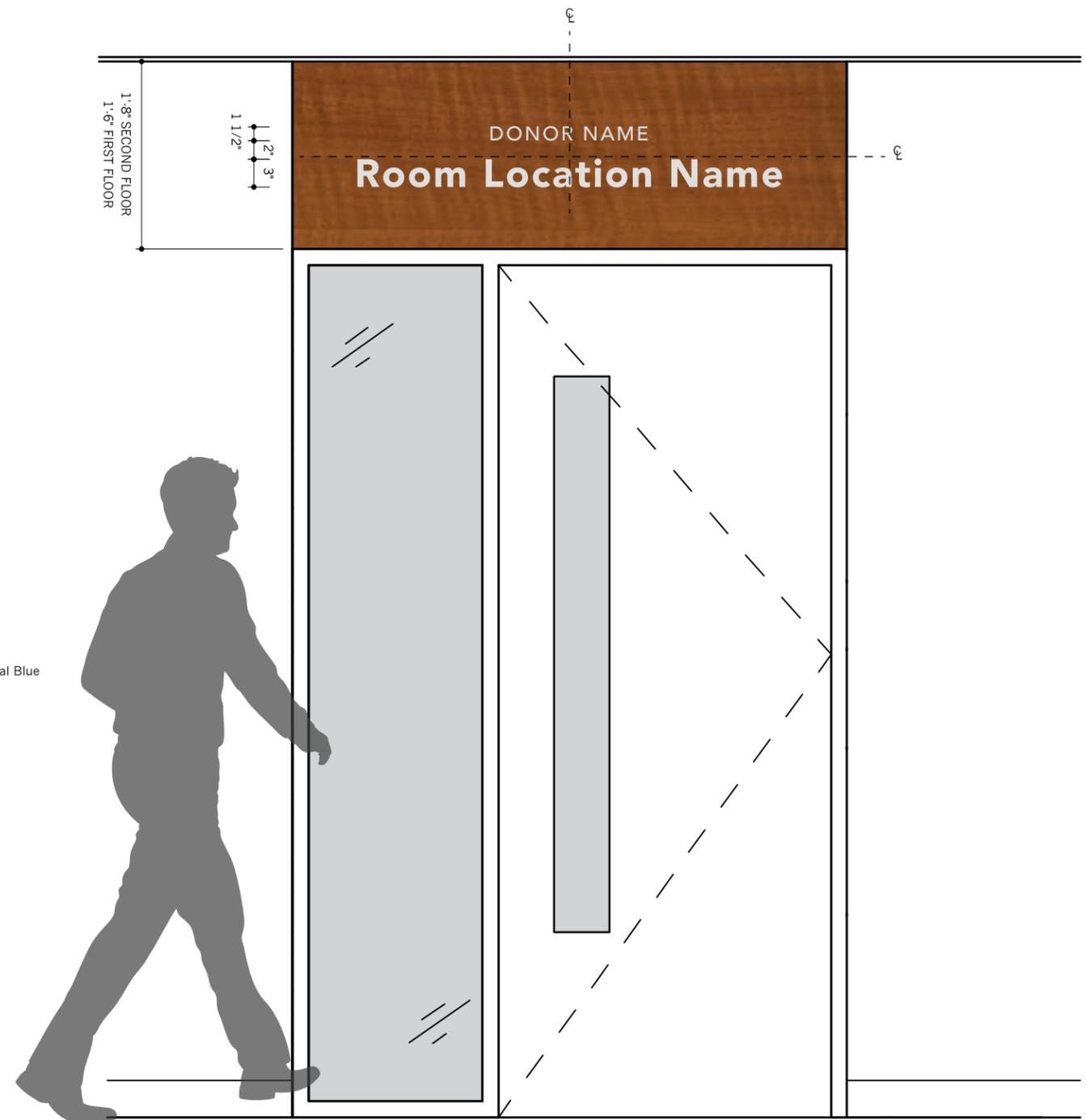
Material Example



RENDERING
Wood Application



RENDERING
White Application



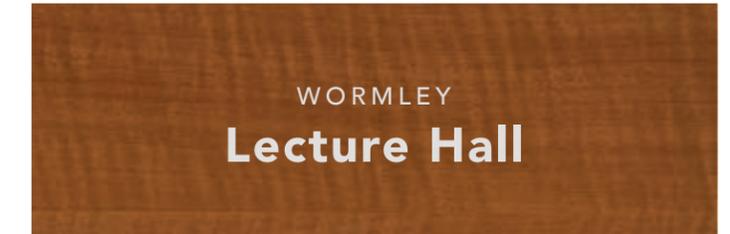
ELEVATION
SCALE: 3/4" = 1'-0"

LEVEL 1



Quantity: 2

LEVEL 2



Quantity: 2

THE COMMUNITY FOUNDATION
FOR McHENRY COUNTY
Resource Lab



This location is flush right, spaced 6" off of door frame.

Quantity: 1

MILLER VERCHOTA, INC., CPAS
MCC Weather Center

Quantity: 1



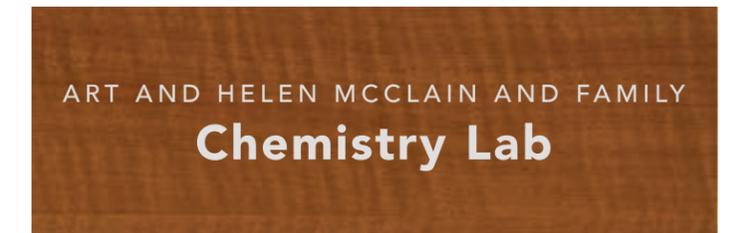
Quantity: 1



Quantity: 2



Quantity: 2



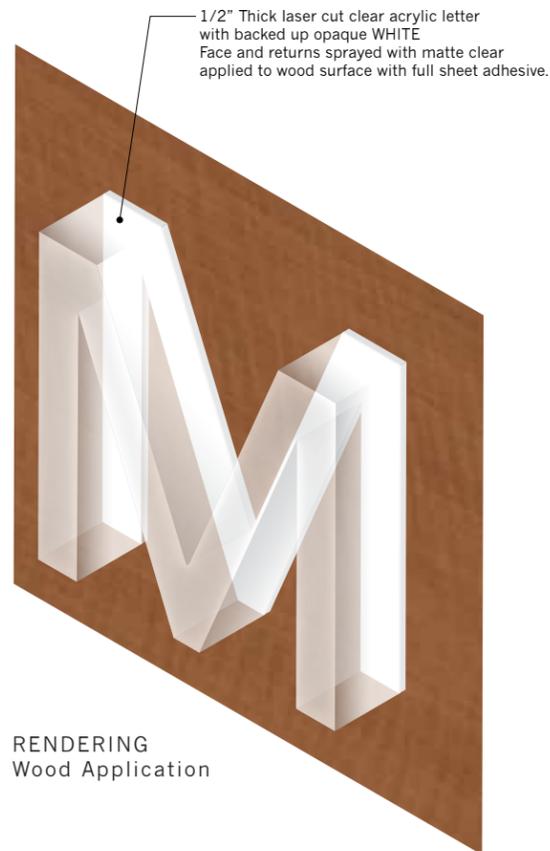
Quantity: 2



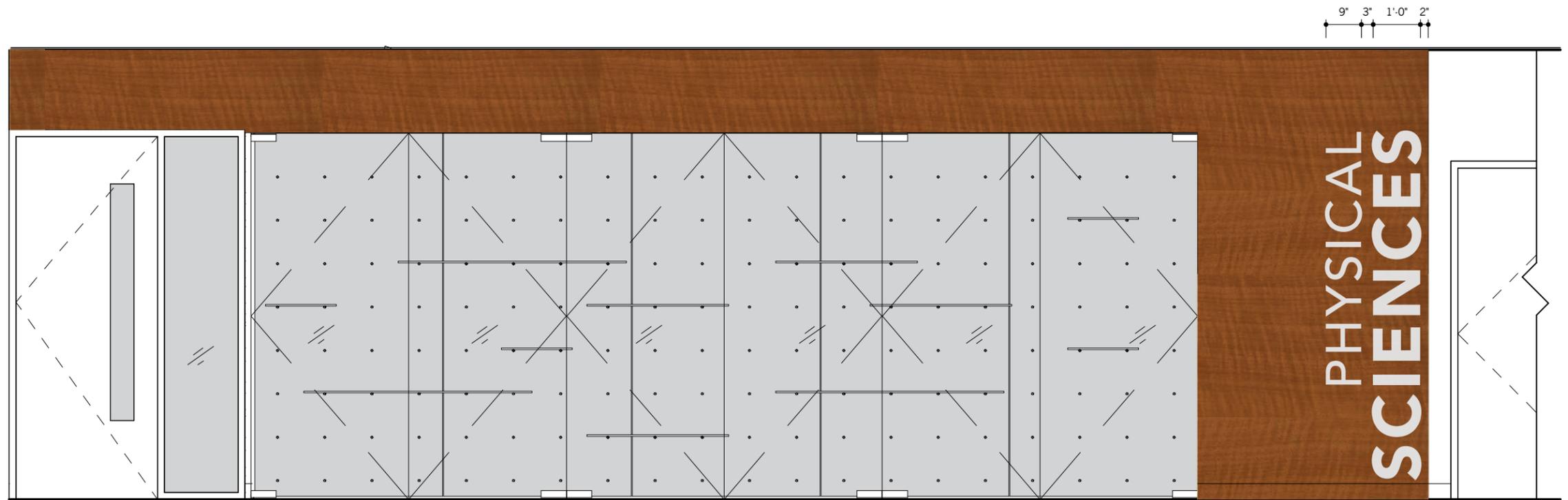
Quantity: 1



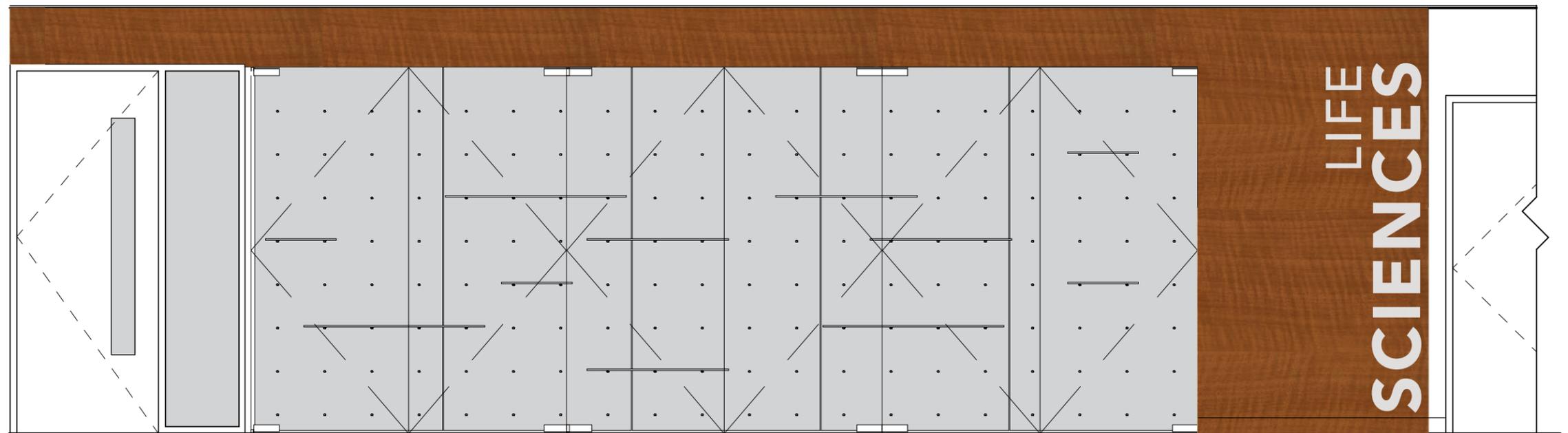
Material Example



RENDERING
Wood Application



2nd FLOOR ELEVATION
SCALE: 3/8" = 1'-0"



1st FLOOR ELEVATION
SCALE: 3/8" = 1'-0"