



**Babendure Design Group**  
8140 Walnut Hill Ln. #950  
Dallas, Texas 75231  
214.265.1960  
[www.babendure.com](http://www.babendure.com)

# University Medical Center of El Paso El Paso Children's

8th Floor Build Out - Bid Manual  
Package 1 of 3

June 12, 2024

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*Signage & Wayfinding  
Design Specialists*



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## Bid Instructions

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## **BID SUBMITTAL**

All bids will be issued and received by Babendure Design Group. Babendure Design Group will accept bids by e-mail or by overnight mail, as long as your bid submittals are received by the date and time referenced above.

- 2.1 Each bidder is required to submit a fabrication and installation schedule based on this project, which, if agreed upon, will become a binding part of the final contract agreement. The schedule should be based on your shop's current manufacturing capacities and existing commitments. No bid will be accepted unless a fabrication and installation schedule is included.
- 2.2 Include any notes and/or revisions directly on the bid form. No changes or additional notes will be accepted unless prior approval requested or directed specifically in writing.
- 2.3 The President or an Officer of the company is required to sign and date the bid form, with the company's name clearly stated.

## **AWARD OF CONTRACT**

The awarded Signage Contractor will be signing a contract directly with the Owner. The day-to-day coordination will be handled directly through Babendure Design Group, and all invoices will be submitted to Babendure Design Group for review, authorization and forward for payment processing by the Owner.

All of the information contained in the Graphics Project Manual, the Design Intent documents and all other information included in this package will become a binding part of the contract.

All of the bidders are responsible for the information contained. If there are any discrepancies contained in these documents, it is the bidder's responsibility to point these items out, in writing, to Babendure Design Group prior to bid submittal.



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## Construction Specifications

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## SIGNAGE PLACEMENT GUIDELINES

Following are general guidelines for placement of vehicular, pedestrian and interior signage, as viewed when approaching the respective sign types. These are to be followed in all conditions unless specifically directed by the designer or a local authority having jurisdiction.

### Interior Signs

To conform with the 2010 Federal Standards for Accessible Design requirements the following instructions must be followed.

- Permanent room signage must be mounted so tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character (this is measured to lowest Braille characters in California) and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.
- Permanent room signage is to be located alongside the door at the latch side.
- Where tactile signage is provided at double doors with one active leaf, the sign shall be located on the inactive leaf.
- Where tactile signage is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door.
- Where there is no wall space at the latch side of a single door or at the right side of double doors, signage shall be located on the nearest adjacent wall.
- Signage with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.
- Signage containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.
- Signage containing only visual characters are to be installed 40 inches (1015 mm) minimum above the finish floor or ground.
- Overhead signage must be mounted to maintain a minimum of 80" (2030 mm) clearance above finished floors or ground surface.
- Overhead signs should be placed perpendicular to the pedestrian flow of traffic whenever possible. It will be ineffective or overlooked if it is placed parallel.

## **CONSTRUCTION SPECIFICATIONS**

### **1.0 Introduction**

The purpose of this document is to serve as a reference which identifies project submittal requirements, materials, finishes, construction specifications, performance requirements and quality controls, as well as Signage Contractor/Fabricator's responsibilities and obligations. Signage Contractor(s) shall furnish and install signs and/or graphics as detailed in the design intent drawings and/or described in these specifications. Signage shall carry messages, symbols and images as specified in the attached Sign Message Schedule. Quantities shall be as called for in the attached Signage Bid Table and should be confirmed by the Signage Contractor against the Message Schedule.

### **2.0 Definition Of Terms**

#### **2.1 Contract Documents**

Refers to the design intent drawings, specifications, signage message schedule, all bidding addendum and modifications or clarifications incorporated therein during the bid process and before their execution. When applicable, additional appendages provided by Owner, Owner's Representative or General Contractor shall also become part of the contract documents.

#### **2.2 Owner**

Shall refer to:

UNIVERSITY MEDICAL CENTER - EL PASO CHILDREN'S  
Address: 4815 Alameda Ave.  
El Paso, Texas 79905

#### **2.3 Graphics Designer**

Shall refer to:

BABENDURE DESIGN GROUP  
Contact: Bernie Babendure  
8140 Walnut Hill Ln. #950  
Dallas, Texas 75231  
Tel: 214.265.1960

#### **2.4 Signage Contractor / Fabricator**

Refers to the group(s), firm(s), organization(s), company or corporation(s) designated as such in an Agreement with the Owner or designated representative of the Owner (such as Owner's Representative, General Contractor or others) and shall apply to any such entity under contractual obligation to perform any fabrication, installation, finishing, printing or other work related to the signs and graphics, as referenced in the Contract Documents.

#### **2.5 Work**

As employed herein, includes any management, submittal, material, hardware, equipment, construction, labor, installation, logistics, service or maintenance, and warranties required to complete the fabrication prescribed in these specifications and contract documents. This shall include, but not limited to, all of the sign types identified in the signage message schedule and design intent drawings.

#### **2.6 Addenda**

Written communications covering changes, corrections, clarifications and special interpretations of the design intent drawings and specifications, shall become a part of the documents.

## **2.7 Substitutions**

When one or more than one product or material is specified and the Signage Contractor desires to offer a substitute product that is not specified and which will completely accomplish the purpose and meet the performance requirements of the contract documents. Refer to Section 6.0 for the conditions governing all substitutions.

Where observed discrepancies occur between contract documents design intent drawings, message schedules, location plans or construction specifications) or within any document section, submit written notice of such discrepancies and any assumption concerning same prior to submittal of bids. Should no written notice be provided, the item or arrangement of better quality, greater quantity, or higher cost shall be deemed included in the bid submittal.

## **2.8 Approved, Acceptable or Satisfactory**

Shall be understood as approved by, acceptable with, or satisfactory to the Owner/Owner's Representative/General Contractor/Designer. Equal or satisfactorily approved equal products, materials and substitutions thereof shall be considered only prior to time of bid and must be clearly identified in writing to Owner/Owner's Representative/General Contractor/Designer as such.

## **2.9 Not In Contract (N.I.C.)**

Refers to work not included in this contract.

## **2.10 Final Completion**

The date when the Graphic Designer finds the entire work as described in the contract documents, acceptable and fully performed, as written in the final certificate of payment.

## **3.0 General Conditions**

### **3.1 Quality Assurance**

The Signage Contractor shall be responsible for the quality of materials and workmanship required for the execution of the work defined in the contract documents including the materials and workmanship of any entities or individuals who act as their sub-contractors.

The Signage Contractor shall have sole responsibility for conformance with the design intent and no review by the Owner/Owner's Representative/General Contractor/Designer shall release them of this responsibility.

It is intended that the work described in these documents be of sound, quality construction. The Signage Contractor shall be solely responsible for the inclusion of adequate amounts to cover the management, engineering, approvals, construction, delivery, installation, inspection and cleaning of all items indicated, described and/or implied.

### **3.2 Commencement**

The work described in these contract documents shall only begin when an Owner-authorized, written Contract, Subcontract or Letter of Intent has been issued to the Signage Contractor with instructions to proceed, provided all other requirements have been met.

### **3.3 Contract Administration**

Reviewing the quality and progress of the work and submittals received from the Signage Contractor, the Graphic Designer is acting solely for the convenience of the Owner/Owner's Representative/General Contractor in following the work. The Graphic Designer has no responsibility to assist the Signage Contractor in the supervision or performance of the work. No action by the Graphic

Designer shall in any way relieve the Signage Contractor from his responsibility for the performance of the work in accordance with the contract documents, or give rise to any negligence or other action against the Owner or the Graphic Designer or anyone acting for or on behalf of either of them. Signage Contractor shall allow Owner's Representative or an authorized representative complete access to their plant, excluding such areas or processes judged by the Signage Contractor to be of a highly secretive or proprietary nature, for the purpose of inspecting production techniques, materials, or other items related to the work of which the Owner is committed, or which may be contemplated.

Upon notification from the Signage Contractor that all work is complete, the Graphic Designer will inspect the final installation for compliance with all approved documents. Additional hours spent by Graphic Designer's personnel on documentation, coordination, and additional site visits required by incorrect, incomplete, or faulty workmanship on the part of the Signage Contractor, will result in a back-charge to the Signage Contractor's contract equal to the fees and expenses accumulated by the additional hours and efforts expended.

### **3.4 Retainage**

Refers to any payment request or invoice percentage of value to be retained by the Owner/ Owner's Representative/General Contractor as defined in the provisions and conditions governing retainage and as provided in the general conditions or contract agreement of the Owner/Owner's Representative/General Contractor. All payment requests or invoices shall be submitted to the Graphic Designer for initial approval. The Graphic Designer will review all requests for payment or invoices for accuracy and representation of percentage of completion of work, and forward to the Owner/Owner's Representative/General Contractor with any recommendations or comments.

### **3.5 Extensions**

The conditions of such extensions will be regulated by the provisions in the contract or subcontract agreement of the Owner/Owner's Representative/General Contractor.

- A. The following represents the Graphic Designer's standard extension policy, which may or may not be in accordance with the Owner/Owner's Representative/General Contractor requirements:
1. In consideration for an extension in the time required to perform the work as specifically outlined in the contract, the Signage Contractor must furnish such justification and supporting evidence as the Owner/Owner's Representative/General Contractor/Designer may deem necessary.
  2. All claims for extensions of time shall be made in writing and submitted to the Graphic Designer within three (3) days of the first instance of the delay. The Signage Contractor shall provide a written estimate of the probable effect of such delay on the progress of work.
  3. A careful review of supporting evidence will be made by the Graphic Designer. Should the Graphic Designer find that the Signage Contractor is entitled to any extension in the time allowed for completion of work, the Graphic Designer's determination upon the total number of days to be extended shall be based upon the currently approved schedule and all data relevant to the extension. Such data will be incorporated into the schedule as a revision thereto only upon approval of the Owner/Owner's Representative/General Contractor.
- B. Subject to other provisions of the contract or subcontract agreement, the Signage Contractor may be entitled to an extension (but no increase in the contract sum) for delays arising from unforeseeable causes beyond the control and without the fault or negligence of the Signage Contractor or his subcontractors as follows:
1. Labor disputes and strikes (including strikes affecting transportation) that do, in fact, directly and critically affect the progress of the work. However, an extension on account of an individual labor strike shall not exceed the number of calendar days of said strike.
  2. Acts of God that damage completed work or stored materials.

3. Abnormal inclement weather. However, an extension for execution of exterior work will not be considered as a result of adverse weather conditions reasonably anticipated.

### **3.6 Liquidated Damages & Penalties**

The Owner/Owner's Representative/General Contractor contract or subcontract agreement conditions of the project shall regulate any liquidated damages or penalty clauses and any such clauses will be communicated in advance of the bid submittal and contract award.

### **3.7 Artwork**

Provided for spacing and reference only. The Signage Contractor is required to produce artwork for all symbols and lettering, and will submit to the Graphic Designer for review and approval prior to fabrication. Artwork for specific graphic items and logos, as noted in the design intent drawings, shall be provided by the Owner. All other artwork, as well as final artwork for fabrication (including reproducible film positives) is to be provided by the Signage Contractor.

The Signage Contractor may be required to refine said artwork for the sake of reproduction. All special dyes prepared for graphic items shall become the property of the Owner and are not to be used further without written permission.

### **3.8 Field Verification**

Field verification and dimensions shall be taken by the Signage Contractor prior to preparation of shop drawings and fabrication where possible. Signage Contractor is to immediately notify the Graphic Designer of any discrepancies identified between field conditions and the design intent drawings or specifications. Allow time and make accommodations for trimming and fitting of signage components wherever the taking of field measurements before fabrication might delay work.

All supplementary parts necessary to complete each item of work shall be furnished by the Signage Contractor, even though such parts may not be definitively shown or specified in the Design Intent or specifications documents. All anchors and other fasteners for securing work to the construction as well as provision and/or coordination of any and all blocking required for secure attachment shall be included.

## **4.0 Signage Contractor Responsibilities**

### **4.1 Engineering Responsibility**

The graphic design requirements shown by the details on the sign type drawings are for design intent only and intended to establish basic dimensions of units or modules, profiles and sight lines of members, colors, finishes, messaging and graphic appearance of the program. Within these limitations, the Signage Contractor is responsible for engineering, fabrication and implementation of the entire system, and to make whatever modifications of, and additions to the details as may be required to achieve safe, durable, functional and quality work. The Signage Contractor must maintain the visual design intent concept as shown, including members sizes, profiles and alignment of components, materials, colors, finish and function.

The Signage Contractor shall supplement the general design intent shown with complete and detailed shop drawings of all sign types in the system and submit to the Graphic Designer for review and approval. The shop drawings shall include major aspects of the system proposed, such as dimensioned elevations, sections, shapes, methods for connections of components and joints, how temperature movement is handled, electrical diagrams and requirements, illumination methods, venting, maintenance access requirements, and anchorage to structure.

Engineered and stamped shop drawings by a professional structural engineer, licensed in the state of the project site, to be submitted with Signage Contractor shop drawings for any sign types indicated in the design intent drawings, required by local authorities having jurisdiction or that pose any risk of liability through structural failure.

#### **4.2 Statement of Application**

The Signage Contractor, by commencing the work of the project, accepts and assumes complete responsibility as a part of his warranty of the work, to assure that all assembled components and parts shown or required within the work of this project comply with the contract documents. The Signage Contractor shall further warrant:

- A. That all components specified, or required, to satisfactorily complete the fabrication and installation, are compatible with each other and with the conditions of installation and expected use;
- B. The overall effective integration, correctness and quality of individual parts and the entirety of the work;
- C. Compatibility with adjoining substrate, materials and work by other trades;
- D. There shall be no premature material failures due to improper design, engineering or fabrication of the work or system. All products and materials are to fully perform to their normal life expectancy.

#### **4.3 Execution**

The Signage Contractor shall be responsible for all work done under this contract, including but not limited to:

- A. Faulty or improper work of subcontractor(s), vendor(s) and others under them by subcontract or otherwise;
- B. Diligent and professional execution of work and giving their full and complete attention and supervision to same until completed;
- C. All delays caused by neglect on their part or of those under them by subcontract or otherwise;
- D. Compliance or conformance with all laws, ordinances, regulations and guidelines bearing on the conduct or construction of the work as drawn and specified.
- E. Obtaining, at their own cost, inspection certificates which may be required of the project by local authorities, or any other governing body. The Signage Contractor shall procure and pay for all permits, licenses and approvals necessary for the execution of the work.

#### **4.4 Submittals**

By the approval and submission of shop drawings and samples, the Signage Contractor thereby represents that he has determined and verified all field measurements, field construction criteria, materials, catalogue numbers and similar data or will do so, and that he has checked and coordinated each shop drawing and sample with the requirements of the work and the contract documents. Refer to Section 5.0 for a list of required submittals.

#### **4.5 Special Instructions**

Halt the graphics work when notified of a proposed change, or if unsatisfactory results are anticipated. Notify the Graphic Designer immediately and proceed only after receiving additional instructions from the Graphic Designer and/or Owner.

#### **4.6 Acts and Omissions**

The Signage Contractor is responsible for having free access to the premises for the purpose of acquainting himself with the conditions, delivering furnishings and equipment and performing the work under this contract. He should cooperate with the separate trades who may currently be working on the premises, integrating the work with that of others, all to the best interest of the project and its

orderly completion. Damages to the building contents, when such damages result from the use of faulty materials or negligent workmanship, shall be the responsibility of the Signage Contractor.

#### **4.7 Protection and Handling of Products**

Store all graphic items under cover and off the ground. Handle in such a manner so as to protect surfaces and to prevent damage during storage, installation, and throughout remaining construction. Protect exposed finishes by covering with adhesive paper or other suitable covering where adhesive is not appropriate for finish material. Apply covering prior to shipment from the fabricating or finishing shop. Covering shall not adversely affect finish. Remove protective coverings when there is no longer any danger of damage to the graphics work from other work yet to be performed.

#### **4.8 Shipping and Transportation**

Signage Contractor will be responsible for proper shipping and transportation of all signage to the job site and will specify whether it will be common carrier or on his own trucks. Signage Contractor will be liable for all damage incurred during shipping and loss of time in the installation schedule.

#### **4.9 Storage of Equipment of Materials**

Space for storage of equipment or materials prior to installation will be determined and if approved, designated by the Owner/Owner's Representative/General Contractor. The Signage Contractor must give advance notice of deliveries and space requirement so that proper provision may be considered. If deliveries are to be made to the premise at times other than normal working hours, the Signage Contractor will be required to reimburse Owner for any overtime costs incurred by the Owner.

#### **4.10 Warranty**

Upon final completion and acceptance, the Signage Contractor will warrant for a period of no less than one year all work and materials to be in full and complete accordance with the contract documents and agreement between Owner/Owner's Representative/General Contractor and Signage Contractor, and requirements appertaining thereto; that all work and materials are free from any and all defects and imperfections, and fully meet the manufacturer's published performance criteria for the use and purposes for which each and every part is specified.

The Signage Contractor also agrees that, should any defect develop or appear, which the Graphic Designer and/or Owner finds was not caused by improper use, the Signage Contractor shall promptly, upon demand, fully correct, substitute and make good any such defective material without any cost to the Owner and will save the Owner harmless against any claim, demand, loss or damage by reason of any breach of this warranty.

The period of this warranty shall commence on the date on which the Graphic Designer determines the Signage Contractor has met all Final Completion requirements. The period of said warranty shall last twelve (12) months unless otherwise specified.

## 5.0 Submittals

All required submittals and shop drawings are to be delivered to the Graphic Designer for distribution.

### 5.1 Schedule

A detailed graphic project schedule by phases of production and installation is to be submitted by the successful bidder no later than within five (5) days of receiving notice or award of the project contract or subcontract. The submitted schedule will be consistent with that submitted in the bid process with only additional details and minor adjustments included.

### 5.2 Materials, Colors & Control Samples

Submit three (3) 3" x 3" samples of each material, color and finish of exposed components and accessories, or final material substrate to be used in the work.

These samples shall be utilized for review and approval of conformance with the design intent and specifications documents. One set of approved samples will be returned to the Signage Contractor, the remainder will become the property of the Graphic Designer and used as control samples for inspection of the completed work, unless otherwise noted. The Signage Contractor is responsible for the prompt revision of and immediate re-submittal of rejected samples. Failure to achieve timely approval of samples will not result in any project schedule extensions.

**All Color and Material Samples need to include the following information on each sample when submitted to BDG for review and approval.**

1. **Submitting Companies Name**
2. **Project Name**
3. **Color Name and Number as it is called out in our CD Packages.**
4. **Date of Submittal**

Samples submitted without this information will be rejected and the vendor will be required to supply a corrected set of samples.

Submit one (1) complete control sample of the following sign types to the Graphic Designer's for review and approval before beginning final production:

Sign Type	Description
INT.103.1 Wall Directional, Extra-Small	Full-sized digital print sample
INT.105 Typical Room Identity	Complete sign sample
INT.108.2 Patient Room Identity - Child	Complete sign sample, minus gripper bar

These samples shall become the property of the Graphic Designer and used as control samples for inspection of the completed work.

### 5.3 Shop Drawings

Submit one (1) reproducible set of shop drawings in tabloid format (11" x 17") for the manufacturing, fabrication and installation of signage and graphic work at large scale. Show all appropriate level of details for joining, adhesions, assembly, electrical diagramming, illumination sources, maintenance access, functional aspects, graphic applications, materials, finishes, anchorage and any accessory items.

- A. Acceptance or approval of shop drawings does not in any way change the specifications or requirements of the contract documents. Contract documents may only be changed in writing.

- B. The Signage Contractor is responsible for reviewing their shop drawings for conformance with the contract documents and notifying, in writing, the Graphic Designer of any variation from the documents.
- C. Changes, corrections or revisions to the shop drawings are to be promptly made by the Signage Contractor, as directed by the Graphic Designer, and resubmitted for final review.
- D. The Signage Contractor is responsible for the timely submittal or re-submittal of shop drawings in order to meet the project schedule.

#### **5.4 Copy Layouts**

Copy layouts are to be provided for all sign types and all messages utilizing the Graphic Designer or Owner/Owner Representative provided message schedule, and illustrate the final message layouts. Each layout should reference the item number from the message schedule.

#### **5.5 Manufacturer's Data**

Submit one (1) copy of the manufacturer's printed specifications, anchorage details and installation, and maintenance instructions for products to be used in the fabrication of signs and graphics work. The Signage Contractor is also responsible for providing Material Safety Data Sheets (MSDS) for any products and materials delivered, installed or utilized on the project site.

### **6.0 Substitutions**

The design intent drawings and specifications of this project are to be utilized as the basis for all bidding, award, construction and installation. The Signage Contractor is responsible for thoroughly reviewing the contract documents and must submit any requests for substitutions prior to submittal of bids and award of contract.

#### **6.1 Pre-Bid Substitution Required Evidence**

Request for substitutions of products, materials or processes other than those specified will be accompanied by the evidence that the proposed substitution,

- A. Is equal in quality and serviceability to the specified item;
- B. Will not entail changes in details and construction of related work;
- C. Will be acceptable in consideration of the required design and artistic effect;
- D. Will provide a cost advantage to the Owner.

#### **6.2 Post Award Substitution Approvals**

Any substitutions requested after the award of the contract will be considered only under these cases:

- A. When the specified product is not available;
- B. When a certain product or process is specified, a warranty of performance is required, and, in the judgment of the Signage Contractor, the specified product or process will not produce the desired results;
- C. When such substitution, in the opinion of the Graphic Designer, is in the best interest of the Owner;
- D. Proposed substitutions must be made within five (5) days after the award of the contract, except when circumstances are beyond the Signage Contractor's control.

The Signage Contractor shall furnish with their request such shop drawings, specification samples, performance data and other information as may be required of them to assist the Owner/Owner's Representative/General Contractor/Graphic Designer in determining whether the proposed substitution is acceptable. The burden of proof shall be upon the Signage Contractor.

### **6.3 Warranty Of Substitution**

Regardless of the evidence submitted or any review or independent investigation by the Owner or the Graphic Designer, a request for a substitution of products, materials, or processes is a warranty by the Signage Contractor to the Owner and Graphic Designer that the requested substitution:

- A. Is equal in quality and serviceability to the specified item;
- B. Will not entail changes in details and construction of related work;
- C. Will be acceptable in consideration of the required design intent and artistic or graphic effect;
- D. Will not involve any change in cost to the Owner other than that specified in an accompanying request for a change order.

### **6.4 Requests for Substitutions**

The Signage Contractor must submit requests for substitutions to the Graphic Designer in writing, providing the required information and samples for evaluation and consideration. The Signage Contractor must also identify the addition to or reduction in costs, if any, to the project. Substitution must be approved in writing by the Graphic Designer and the Owner before they may be used.

## **7.0 Fabrication**

Shop fabrication and tolerances shall conform to the highest standards of the industry. All items shall be shop fabricated so far as practicable. Perform high-quality, professional workmanship. Attach materials with sufficient strength, number and spacing of attachments as to not fail until materials joined are broken or permanently deformed. Fabricate all work to be truly straight, plumb, level and square, with seamless or hair line joints, and to sizes, shapes and profiles indicated on the approved shop drawings.

### **7.1 Shop Assembly**

Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units with alignment points for reassembly and coordinated installation.

### **7.2 Welding**

All welding procedures shall conform to applicable American Welding Society (AWS) specifications and be accomplished by personnel qualified within the previous two years under AWS specifications. All welds shall develop capacity of members being joined unless specific length or extent is noted on the shop drawings. Type of alloy filler metal and electrodes to be that which is recommended by producer of the metal to be welded, and as required for color match, strength and compatibility in the fabricated items.

### **7.3 Flatness of Panels**

Panels shall show no visual distortion when viewed in installed position. All panel faces shall be of such flatness that when measured, the maximum slope of the surface at point, measured from the nominal plane of the surface, shall not exceed 1.0%. Any panel not meeting these requirements is subject to rejection by the Graphic Designer and replacement by the Signage Contractor.

### **7.4 Wind Loading**

Exterior signs shall be designed to withstand wind pressure loadings of 30 psf (146.5 kg/sq.m) on the gross area of the exposed units, acting in all directions or to meet and/or exceed all applicable codes, whichever is greater. The Signage Contractor will be required to have structural elements of exterior signs stamped by an engineer licensed in the state of the project site. Standard and approved methods of fabrication will be required by the Graphic Designer.

### **7.5 Thermal Movement**

Design, fabricate and install component parts to provide for expansion and contraction over a temperature range for the material and adjoining materials of 150 degrees Fahrenheit (83.3 degrees Celsius), without buckling, sealant joint failure, glass breakage, undue stress on members or anchors, and other detrimental effect.

### **7.6 Wrought Work**

Wrought work shall be leveled and straightened. Members shall have sharp lines and angles and smooth surfaces. Extruded members shall be free from extrusion marks. Square turns and corners shall be sharp. Curves shall be true.

### **7.7 Castings**

Castings shall have fine, even texture and shall be un-warped and sound. Lines and meters shall be sharp, arises unbroken, profiles accurate and ornament true to pattern. Plane surfaces shall be smooth. Ornamentation shall not have excess material or imperfections that obscure design, undercut to restore detail. Filed or cut areas shall have texture restored. Background textures to be as specified and finishes are to match approved control samples.

### **7.8 Corrosion Protection**

Coat concealed metal surfaces which will be in direct contact with concrete, masonry, wood or dissimilar metals, in exterior work, and work to be built into exterior and below grade walls and decks, with a heavy coat of bituminous paint. Do not extend coating onto exposed surfaces.

### **7.9 Metric Conversion**

Stock or standardized materials sized in metric and not equivalent to U.S. standard may be provided if approved.

### **7.10 Other**

Holes for bolts and screws shall be drilled. Parts to receive hardware shall be countersunk. Fasteners shall be of basic metal and alloy, matching finished color and texture as the metal being fastened, unless otherwise indicated. There shall be no exposed fasteners; all fasteners shall be concealed. Exposed ends and edges shall be milled smooth, with corners slightly rounded. Joints exposed to weather shall be formed to exclude water.

Joints shall be fastened flush to conceal reinforcement, or welded where thickness of section permits. Contact surfaces of connected members shall be ground true. Parts shall be so assembled that joints will be tight and practically unnoticeable, without use of filling compound.

Form work to the required shapes and sizes, with true curves, lines and angles. Provide necessary receptor lugs and brackets for assembly of units. Use concealed fasteners wherever possible. Plates for mounting hardware shall be welded in place.

## **8.0 Installation**

The installation of finished materials shall be under the general direction of the Graphic Designer in accordance with applicable specifications, design intent drawings and signage location plans, where provided.

### **8.1 Preparation**

Coordinate setting shop drawings, diagrams, templates, instructions and directions for the installation of items having integral anchors which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to applicable trades for installation in advance of field work and final installation of signage.

### **8.2 Delivery to Premise**

Unless indicated to the contrary, items of loose material shall be delivered, un-crated, assembled, set in proper place and installed ready for use, free from breakage, blemishes or other defects. All site deliveries must be coordinated with the Owner/Owner's Representative/General Contractor/Designer at least 24 hours in advance of delivery and any associated field work. Secure storage of materials on site will not be provided and is the responsibility of the Signage Contractor over the course of the installation.

### **8.3 Inspection**

Examine the substrate and the conditions under which the materials are to be installed. Do not proceed with the work until unsatisfactory conditions detrimental to the timely and proper completion of the work have been corrected. Signage Contractor is to immediately notify the Owner/Owner's Representative/General Contractor/Designer of such conditions.

### **8.4 Anchors and Inserts**

Furnish inserts and anchoring devices which must be set in concrete or built into masonry for installation of this work to related trade in advance of their work and the installation of final signage. Provide setting shop drawings, templates, instructions and directions for installation of anchorage devices, as the Signage Contractor is responsible for the proper placement of all anchors and inserts. Provide toothed steel or lead shield expansion bolt devices for drilled-in-place anchors and inserts for exterior installation and confirm with Owner/Owner's Representative/General Contractor that proposed substrate is appropriate to receive drilled-in-place mounting hardware. Provide all components with exposed surfaces matching the texture and finish of item anchored.

### **8.5 Cutting, Fitting and Placement**

Perform all cutting, drilling and fitting required for installation. Set the work accurately in location, alignment and elevation, plumb, level and true, measured from established lines and levels. Provide temporary bracing or anchors as required.

Form tight joints with exposed connection accurately fitted with uniform reveals and spaces for sealants and joint fillers. Where cutting, welding and grinding are required for proper shop fitting and jointing of the work, restore finishes to eliminate any evidence of such corrective work.

Do not cut or abrade finishes which cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing or provide new units at Signage Contractor's option.

### **8.6 Erection**

All surfaces shall be covered with protective cover non-deleterious to finish for protection until final installation or erection. Complete all connections in proper alignment and tighten bolts securely. Leveling is to be done only by instruments; measuring equal distances from existing building surfaces will not be acceptable as a basis of level and/or plumb. After erection, all surfaces marred during erection should be returned to original finish and all exposed bolts, bolt heads, etc., shall be retouched to match background or specified color.

### **8.7 Electrical**

Electrical signage shall conform to UL 48 specifications and shall display the required UL label. All electrical lighting and power devices contained within or upon signage devices, which are required as part of the illumination system such as lamps, sockets, internal wiring, switches, ballasts, power supplies, transformers, etc., shall be included. Additionally, the Signage Contractor is responsible for

electrical connection only of signage items. Power distribution to required locations shall be coordinated by the Signage Contractor but is the responsibility of the Owner or their designated agent unless otherwise specified in the design intent drawings or specifications.

#### **8.8 Protective Coverings**

Restore protective coverings which have been damaged during shipment or installation of the work. Remove protection when requested for inspection of finishes and replace. Retain protective coverings intact and remove simultaneously from similar finished items to preclude non-uniform oxidation and discoloration. Remove protective coverings only when there is no possibility of damage from other work yet to be performed at the same location.

#### **8.9 Cleaning of Premises**

The Signage Contractor shall use special care in the disposition of excess materials and rubbish. Rubbish shall not be allowed to accumulate but shall be consistently collected and removed at the completion of this work, on a daily basis.

Storage for paint materials, preparation and mixing, shall be in well lit and ventilated central location but shall not be allowed on finished or carpeted flooring. Ample protection by means of drop cloths or layers of paper must be provided for existing apparatus or parts of the building.

Adequate safeguards shall be provided against fire by placing oils, rags and waste in self-closing metal receptacles and shall be removed from the work and storage area at the end of each work shift. Under no circumstances will they be allowed to accumulate.

## **9.0 Materials And Finishes**

### **9.1 Aluminum**

Aluminum used for exposed structural elements shall be T-5 mill aluminum, thickness as shown on the design intent drawings. Aluminum used for concealed framing of signage shall be 6063 T-5 alloy with mill finish.

#### 9.1.1 Extrusions

Shapes and thicknesses as shown and as required to fulfill requirements, but not less than 1/8" (3.2 mm) thick, unless otherwise shown. Suitable alloy and temper for extruding with adequate structural characteristics and suitable for finishing as specified.

#### 9.1.2 Sheets and Plates

Sizes and minimum gauges as shown and as required to fulfill performance requirements. Sheets that are roller/stretcher leveled 3003-H14 or 5052-H34 and conforming with ASTM B-209 are suitable alloy and temper for forming and fabrication requirements and suitable for finishing as specified.

#### 9.1.3 Castings

ASTM-B-26 or B-108, alloy 214 for natural anodized aluminum finish, and alloy 43 for color anodized aluminum or baked enamel finish.

#### 9.1.4 Finishing

Aluminum finishes shall be acrylic polyurethane two-part catalyzed coating system. All coating applications shall be prepared and spray applied in the factory by skilled technicians. All surfaces shall be mechanically sanded removing all grain lines, striations, and surface blemishes, cleaned with non-abrasive scouring pads, rinsed, and air-dried prior to receiving coatings.

- A. Coatings shall be prepared as designated by manufacturers latest literature for surface preparation and application but in no case less than one (1) applicable self etching primer coat and two (2) final full coats. All finished surfaces shall be uniform.
- B. Colors shall match color designations as indicated in the design intent drawings and specifications.

#### 9.1.5 Anodizing

Exterior Application: For a clear anodized (natural) finish use AA-M21C22A41 with a minimum 0.7 mil (0.02 mm). For a color anodized finish use AA-M21C22A42 with a minimum 0.7 mil (0.02mm) to match samples provided by Graphic Designer.

Interior Application: For a clear anodized (natural) finish use AA-M21C22A31 with a minimum 0.4 mil (0.01 mm). For a color anodized finish use AA-M21C22A32 with a minimum 0.4 mil (0.01 mm) to match samples provided by Graphic Designer.

### **9.2 Stainless Steel**

#### 9.2.1 Alloys & Standards

Provide alloys 302 or 304 established by American Iron and Steel Institute (AISI) unless specified otherwise. In addition, comply with the following standards:

- A. Extrusions: ASTM A 167
- B. Bar Stock: ASTM A 267
- C. Plate: ASTM A 167
- D. Tubing: ASTM A 269
- E. Castings: ASTM A 296, iron-chromium-nickel alloy

### 9.2.2 Finishes

Unless otherwise specified, provide stainless steel finishes to match approved samples, and as follows (AISI designations):

- A. Matte: No. 2D
- B. Directional/Bright: No. 4
- C. Directional/Satin: No. 6
- D. Directional/Highly Reflective: No. 7
- E. Non-directional/Mirror Reflective: No. 8

## 9.3 **Steel**

### 9.3.1 Materials & standards

Structural Steel Shapes and Plates: ASTM A 36

Steel Plate for Cold Forming: ASTM A 283, Grade C

Hot Rolled Steel Bars: ASTM A 108, Grade as selected by Signage Contractor.

Steel Pipe: ASTM A 53, Type E, F or S, at Signage Contractor's option, Grade A, black finished unless shown as galvanized, standard weight (Schedule 40) unless otherwise shown or specified.

Hot-Formed Rectangular Tubing: ASTM A butt welded, cold finished and stress relieved.

Cold-Drawn Steel Tubing: ASTM A 512, sunk drawn, butt welded, cold finished and stress relieved.

Steel Sheet for Cold Forming: ASTM A 569, hot-rolled sheet steel of commercial quality, pickled and oiled, free of defects which would impair the work.

Galvanized Steel Sheet: ASTM A 526, commercial quality.

### 9.3.2 Finishes

Chrome Plated: ASTM B 456, Type SC-2 over a coating of copper and nickel. Provide a bright polished finish unless otherwise specified.

Primer: Provide one of the following, unless steel indicated to receive galvanized finish:

- A. Dimetcote No. 4, Amercote Corporation
- B. Tnemec Zinc 92, Tnemec Company
- C. Carbo Zinc II, Carboline Company

Baked Enamel Finish: Provide manufacturer's standard baked acrylic enamel finish, in colors specified by the Graphic Designer.

Powder Coating: Provide manufacturer's standard powder coating finish, in colors specified or approved by the Graphic Designer.

## 9.4 **Photopolymer**

### 9.4.1 Reference Standards

The following ASTM, UL and 2010 Standards for Accessible Design reference standards are provided and all photopolymer products provided shall conform to these standards or as per required by local authorities.

- A. ASTM International (ASTM):
  - 1. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
  - 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 3. ASTM D 1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
- B. Underwriters Laboratories (UL):
  - 1. UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
  - 2. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials.
- C. 2010 Federal Standards for Accessible Design (2010 SAD)
  - 1. Chapter 7, Section 703, Signs

#### 9.4.2 Submittals

Provide material and finish samples as required to illustrate quality and construction of finished products and in accordance with the design intent drawings and specifications. Approved samples will be retained by the Graphic Designer for use as control sample for inspection of completed work.

#### 9.4.3 Fabrication

Graphics to be produced in accordance with material manufacturers instructions and approved shop drawings. Polymer to be processed using film negatives conforming to design intent drawings, message schedule and approved copy layouts. All tactile elements of graphics, numerals, text and Grade 2 Braille to be raised a maximum of .037" and minimum of .025" from background. All raised graphics to be integral with the background material. Individually applied and hand-spaced graphics are not acceptable.

Grade 2 Braille to meet Braille dimensions prescribed in Table 703.3.1 of the 2010 SAD or any more stringent local requirements. Braille dots shall have domed or rounded shape. Signage Contractor is responsible for conversion of specified raised text or numerals to appropriate Grade 2 Braille translation. No sharp or abrasive edges are to exist on any tactile signage components.

Sign panels to be provided in thicknesses as specified in the design intent drawings and any laminations of individual materials to achieve the specified thickness are to appear seamless. Corners to be square and true, round corners to be produced to match specified radius. All exposed edges to have machine routed finish without tool marks, chips or variations in finish.

#### 9.4.4 Finishes

Tactile sign panel background to be primed and painted with acrylic enamel or polyurethane type paint as required by the manufacturer with all exposed fully covered and final finish to be a non-glare. Raised graphic surfaces to be silk-screened with acrylic enamel or approved screening enamel compatible with the background finish. Applied finishes to raised elements to also have a non-glare finish matching the panel background. Grade 2 Braille to be the same color as the background.

#### 9.4.5 Approved Suppliers

The following are approved polymer suppliers:

- A. Nova Polymers, Inc.  
8 Evans Street, Suite 201  
Fairfield, NJ 07004  
888.484.6682  
[www.novapolymers.com](http://www.novapolymers.com)
- B. JET USA  
1116 MacDade Blvd.  
Collingdale, PA 19023  
800.528.1153  
[www.jetusa.com](http://www.jetusa.com)

### 9.5 Thermoformed Tactile Plaques

Provide manufacturer's standard monolithic thermally formed and bonded tactile plaque produced through a high-pressure thermoforming process, which provides a fully integral one piece tactile plaque. The plaque background, face, raised elements and Grade 2 Braille are compression molded to form a single dimensional component. Surface textures to be selected from manufacturers standard finishes by Graphic Designer.

#### 9.5.1 Reference Standards

The following ASTM, UL and 2010 Standards for Accessible Design reference standards are provided and all thermoformed tactile plaque products provided shall conform to these standards or as per required by local authorities.

- A. ASTM International (ASTM):
  - 1. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
  - 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 3. ASTM D 1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
- B. Underwriters Laboratories (UL):
  - 1. UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
  - 2. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials.
- C. 2010 Federal Standards for Accessible Design (2010 SAD)
  - 1. Chapter 7, Section 703, Signs

#### 9.5.2 Submittals

Provide material and finish samples as required to illustrate quality and construction of finished products and in accordance with the design intent drawings and specifications. Approved samples will be retained by the Graphic Designer for use as control sample for inspection of completed work.

#### 9.5.3 Fabrication

Graphics to be produced in accordance with material manufacturers instructions and approved shop drawings. Thermoformed tactile plaques to be processed machined molds conforming to design intent drawings, message schedule and approved copy layouts. All tactile elements of graphics, numerals, text and Grade 2 Braille to be raised a maximum of .037" and minimum of .025" from background. All raised graphics to be integral with the background material. Individually applied and hand-spaced graphics are not acceptable.

Grade 2 Braille to meet Braille dimensions prescribed in Table 703.3.1 of the 2010 SAD or any more stringent local requirements. Braille dots shall have domed or rounded shape. Signage Contractor is responsible for conversion of specified raised text or numerals to appropriate Grade 2 Braille translation. No sharp or abrasive edges are to exist on any tactile signage components.

Sign panels to be provided in thicknesses as specified in the design intent drawings and any laminations of individual materials to achieve the specified thickness are to appear seamless. Corners to be square and true, round corners to be produced to match specified radius. All exposed edges to have machine routed finish without tool marks, chips or variations in finish.

#### 9.5.4 Finishes

Tactile sign panel background to be of specified material and surface finish or primed and painted with acrylic enamel or polyurethane type paint as required by the manufacturer with all exposed fully covered and final finish to be a non-glare. Raised graphic surfaces to be silk-screened with acrylic enamel or approved screening enamel compatible with the background finish. Applied finishes to raised elements to also have a non-glare finish matching the panel background. Grade 2 Braille to be the same color as the background.

#### 9.5.5 Approved Suppliers

The following are approved thermoformed tactile plaque suppliers:

- A. Alchemy Dimensional Graphics, LLC;  
507B Cornerstone Court

Hillsborough, NC, 27278  
919.241.4368  
www.alchemy-dg.com

B. Best Sign Systems, Inc.  
1202 N. Park Avenue,  
Montrose, CO 81401  
800.235.BEST.

C. AccuBraille  
529 Railroad Avenue  
So. San Francisco, CA 94080  
855.232.7446

## **9.6 Plastics**

### 9.6.1 Acrylics

Provide acrylic plastics equivalent to “Plexiglas” manufactured by Rohm and Haas Company, in sizes as specified. Provide colors as specified, or as selected by the Graphic Designer.

### 9.6.2 Polycarbonate

Provide polycarbonate plastics equivalent to “Lexan SG305-OB”, manufactured by SABIC Innovative Plastics, in sizes as specified. Provide colors as specified, or as selected by the Graphic Designer.

## **9.7 Rigid PVC Board (Thermoplastic Sheet)**

Thermoplastic (PVC) sheet shall be of thickness and sizes specified, formed to profiles and shapes indicated on the design intent drawings. All exposed edges shall be filed smooth, without tool marks and finished to a smooth surface without any grain.

### 9.7.1 Adhesives

Where thermoplastic (PVC) sheet is to be bonded to itself or other substrates solvents or solvent-dispersed adhesives such as THF (Tetra Hydro Furan), Cyclohexanone, or MEK (Methyl Ethyl Ketone) based types shall be used. Prior to adhesive applications both surfaces to be joined must be clean, de-greased and dry. The pre-treatment procedure shall consist of wiping surfaces with isopropyl alcohol with non-colored cloth and allowing surfaces to properly dry.

### 9.7.2 Coatings

All surfaces shall be prepared to receive coatings or surface finishes according to manufacturer’s instructions for surface preparation and application but in no case less than one (1) applicable primer coat and two (2) final full coats. All finished surfaces shall be uniform.

### 9.7.3 Approved Supplier

Thermoplastic polyvinyl chloride (PVC) sheet shall be Komacel as manufactured by Komerling USA, Inc., 3402 Stanwood Blvd., Huntsville, AL 35811, 800.330.2239.

## **9.8 Fibermate Board**

Class III wood fiber panel with the following minimum performance requirements.

### 9.8.1 Physical Properties

- A. Standard Size: 49” x 97”
- B. Thickness: 3.2mm

### 9.8.2 Typical Physical Properties

- A. Constructed of 100% recyclable fiber

- B. Face and back with white water based UV print coating for ink or paint adhesion
- C. Hardness Combustibility: Flamespread @ less than 200 (Class III)
- E. Machinability: May be used with most types of woodworking equipment. However, special care must be taken when sawing as chip-out may occur.
- F. Thickness: 3.2mm

#### 9.8.3 Painting

Follow manufacturers instructions and specifications for application of water-based or solvent-based materials on faces or edges.

#### 9.8.4 Approved Supplier

- A. 3A Composites  
3480 Taylorsville Road  
Statesville, NC 28625  
800.626.3365

### 9.9 **Millwork**

#### 9.9.1 Reference Standards

Detail, construct and erect millwork in conformance with the standards of the Architectural Woodwork Institute (AWI) and in accordance with requirements of all governing codes and regulatory agencies.

#### 9.9.2 Submittals

Prior to commencing fabrication, submit at least three (3) samples of each type of wood and finish required showing range of natural characteristics, color and texture to be expected in the completed work.

#### 9.9.3 Fabrication and Installation

Strictly comply with AWI standards and approved shop drawings. Provide work matching shapes, profiles and sizes indicated. Scribe work to fit with hair line accuracy. Miter and cope all wood joints and moldings. Install in longest available lengths to minimize seams and joints; no finger-jointed wood is acceptable. Securely fasten work to substrates, framing and blocking with concealed fasteners. When face fasteners are unavoidable, countersink fasteners and fill holes flush as to be not noticeable after finishing. Conceal all seams in exterior panels with wood trim.

#### 9.9.4 Tolerances

Do not exceed the following maximum acceptable installation tolerances, except where tighter tolerances are specified in AWI standards:

- A. Allowable Variation from True Plumb and Level: 1/8" in 20'
- B. Allowable Variation from True Plane: 1/8" in 10'
- C. Allowable Variation from True Alignment: 1/8" in 10'
- E. Allowable Variation from True Flush at Joints: Joints shall be invisible after painting or finishing

#### 9.9.5 Wood for Paint Finish

Provide Pine or Poplar interior framing, miscellaneous wood and moldings complying with AWI Premium Grade requirements. Provide solid stock; glued pieces and finger-jointed pieces are not acceptable.

#### 9.9.6 Plastic Laminated Work

Provide NEMA LD-3 laminate complying with AWI Premium Grade materials and workmanship. Provide 0.050" horizontal grade with colors and textures as selected by Graphic Designer from

industry available choices. Provide minimum 42 pound density particle board core and laminate balancing sheets applied.

#### 9.9.7 Fasteners

Provide nails, screws, and fasteners of material and finish appropriate for intended use.

### **9.10 Rough Carpentry**

#### 9.10.1 Lumber

Provide Construction Grade or No. 2 Grade lumber complying with PS 20.

- A. Decay Treated: Provide above ground lumber in contact with roofing, flashing, sheet metal, masonry concrete, damp-proofing and waterproofing that is pressure-treated with waterborne preservatives complying with AWPB LP-2 and AWWPA C2. Dry lumber to maximum moisture content of 19% after treatment.
- B. Fire-Retardant Treated: For all interior blocking, provide lumber which is UL labeled fire-retardant FR-S. Dry lumber to maximum moisture content of 19% after treatment.

#### 9.10.2 Plywood

Provide APA trademarked Exposure 1 C-D veneer performance rated plywood panels with span rating for span indicated if thickness is not shown. Provide UL listed Class A fire-retardant treated plywood for telephone and electrical mounting panels and all interior plywood.

#### 9.10.3 Plywood Backing Panels

Provide APA trademarked, UL labeled, fire-retardant treated, C-D Plugged Exposure 2 panels not less than 5/8" thick and complying with PS 1. Provide treatment that yields a flame spread rating of not more than 25 when tested according to ASTM E84.

#### 9.10.4 Fasteners

Provide nails, screws, and fasteners appropriate for intended use.

#### 9.10.5 Wood for Paint Finish

Provide Pine or Poplar materials or Medium Density Overlay (MDO) plywood with paintable surfaces on both sides. Follow manufacturers instruction for priming and painting surfaces.

## **10.0 Miscellaneous Products**

### **10.1 Adhesives**

#### 10.1.1 Foam Tape

1/16" (1.6 mm) thick, double-faced, white pressure sensitive urethane foam adhesive tape, one of the following:

- A. 3M Company: No. 4016
- B. Spectape of Texas: No. ST1116

1/32" (.08 mm) thick, double-faced, white pressure sensitive urethane foam adhesive tape, one of the following

- A. 3M Company: No. 4032
- B. Spectape of Texas: No. ST1132

#### 10.1.2 Film Tape

4 mil (0.1 mm) thick, double-faced pressure sensitive film tape, one of the following:

- A. 3M Company: No. 415
- B. Macbond: No. SB1786 or No. 0530-IS-0303-KA1100

#### 10.1.3 Silicone

FS TT-S-001543, Class A, one of the following:

- A. General Electric: Silicone Sealant #1200
- B. Dow Corning: Building Sealant #781

#### 10.1.4 Epoxy

Two component thermosetting epoxy adhesive with 100% solids content, one of the following:

- A. Miracle Adhesives: No. NP-428
- B. Hughson Chemicals: Chemlok #304

### **10.2 Silkscreen Inks**

All inks, paints and lacquers required for silkscreened or imprinted surfaces or other specified surfaces, shall be a type made for the surface material on which it is to be applied and recommended by the manufacturer of the ink or paint. Exact identification of all ink and paint shall be noted on the shop drawings, together with data describing the method of application and if other than "air"-dried drying. All silkscreen inks shall be made by a manufacturer with experience in production and consistency of such inks for the purposes and surfaces involved.

#### 10.2.1 General Requirements

All screen printing specified shall be executed from photo screens prepared from reproductions of the copy specified. The Signage Contractor shall submit full-size copy layouts to be used to the Graphic Designer for approval. All above work is to be included in this contract. No hand-cut screens will be accepted.

Prime coats or other surface pre-treatment, where recommended by the manufacturer for inks, paints or lacquers, shall be included in the work (and noted on the shop drawings) as part of the finished surface work at no additional cost to the Owner/Owner's Representative/General Contractor/Graphic Designer.

All screen printing shall be executed in such a manner that all edges and corners of finished letterforms and graphic devices are true and clean. Letterforms with rounded positive or negative corners, edge build-up or bleeding, double images, etc., will not be accepted. No paint, ink or lacquer that will fade, discolor or delaminate as a result of proximity to UV light source or heat there from shall be used. All inks, paints and lacquers shall be evenly applied and without pinholes,

scratches, orange peeling, application marks, etc. Rear-illuminated panels containing the above or other defects which cause light leaks in surface areas specified to be covered will not be accepted. Workmanship in connection with finishes and formations of letters and/or graphics shall conform to the standards of the trade and shall be acceptable to the Graphic Designer.

#### 10.2.2 Manufacturers

Provide silkscreen inks in colors and sheen as specified by the Graphic Designer and as manufactured by one of the following or approved equal:

- A. Naz-Dar Company  
Shawnee, KS 66227
- B. Wornow Products Department  
Dexter Corporation  
Industry, California
- C. Colonial Printing Ink Company  
East Rutherford, New Jersey

### **10.3 Vinyl**

This specification defines basic materials and fabrication methods for markings/graphics to be used by the Signage Contractor for computer cut and applied graphics. No deviation from these specifications is permissible without the written approval of the Owner or Graphic Designer. The Signage Contractor shall certify that all markings/graphics conform to these specifications, and will be replaced without additional cost to the Owner if they fail to meet this requirement.

#### 10.3.1 Non-Reflective

The marking film used shall be 3M ScotchCal™ brand film, series 220. The finished emblems shall be pre-masked.

#### 10.3.2 Reflective

The marking film shall be 3M ScotchLite™ reflective sheeting, series 680, 580 or 480, or others as approved by the Owner or Graphic Designer. The Signage Contractor shall verify all City and State traffic codes for grade of reflective vinyl, and shall use high intensity vinyl when required by code. If the codes do not specify, then engineering grade vinyl is acceptable.

#### 10.3.3 Pressure Sensitive

Cut vinyl to be 1.8 mil (0.89) thick, pre-spaced and pre-aligned on transfer paper. Provide vinyl graphics in colors and type styles specified.

#### 10.3.4 Letterforms

Size: Letterforms shall be sized as specified or indicated in the design intent drawings, and shall be only in typography specified. Letter size for the appropriate sign types shall be as shown on submitted shop drawings and copy layouts. Alternate letterforms, typography or letter size will not be accepted.

Spacing: Letter spacing shall be at the standard optical-spacing. Spacing between words shall equal the horizontal dimension of a lower-case “m” for the size of the copy being used. The Signage Contractor shall furnish to the Graphic Designer for approval, full-size spacing patterns or copy layouts for each message specified. No work shall be executed from spacing patterns or copy layouts not approved by the Graphic Designer.

#### 10.3.5 Installation

Install vinyl graphics in accordance with the manufacturers instruction, to the highest standards of the industry and as illustrated in shop drawings. All work shall be performed by skilled technicians, especially trained and experienced in this product installation. All surfaces to be cleaned, dry and free of blemish. Completed vinyl installations to be free of wrinkles, bubbles or other defects.

#### 10.3.6 General Requirements

- A. Color, copy and logotype rendition shall be approved by Owner or Graphic Designer prior to production.
- B. Graphics shall be weather-resistant and shall not be affected by oil, water, salt spray or alcohol.
- C. Where specifically noted, provide reverse cut copy for application to second surface glass. All other applications shall be “correct-reading” on the exterior of glass.
- D. Size, colors and shape of markings to be fabricated in accordance with 3M Product Bulletin for each item. Marking shall be produced and installed in accordance with 3M Instruction Bulletin No. 5.
- E. All cut edges (i.e. laser, kiss cut, guillotined, etc.) shall be smooth and free of ragged areas.
- F. Markings shall be packaged in substantial cartons which will protect against physical damage in shipping and handling and against dirt or moisture.

### **10.4 ScotchPrint® Digitally Printed Graphics**

#### 10.4.1 Application

Follow 3M product bulletin and instruction bulletins in their entirety per the required material and application. Provide digitally printed graphics in colors, textures and patterns specified by the Graphic Designer and per approved sample submittals.

#### 10.4.2 ScotchPrint Film Series 8620 ES

Method of Decoration: 8620 ES base film with matte over laminate 8911 or 8931 and 8700 toners.

Base Film: Marking Film #8620 ES White, Product Bulletin 8000/8600, Instruction Bulletin 4.7.

Application Tape: 3M Application Tape #SCPM-3, Instruction Bulletin 4.3.

Overlaminating Film: ScotchPrint Film #8911, Product Bulletin 8000, Instruction Bulletin 4.8;

ScotchPrint #8931, Product Bulletin 8000, Instruction Bulletin 4.8.

Related Literature: ScotchPrint Toners, Product Bulletin 8700; Surface Preparation (Non-Vehicular), Instruction Bulletin 5.1;

Application Procedures: ControlTac Plus (Corrugated) Instruction Bulletin 5.4; and ControlTac Plus (Flat and Curved), Instruction Bulletin 5.6;

Removal Procedures: Instruction Bulletin 6.5

#### 10.4.3 ScotchPrint Film Series 8640 ES

Method of Decoration: 8640 ES base film with matte over laminate 8911 or 8931 and 8700 toners.

Base Film: Marking Film #8640 ES White, Product Bulletin 8000/8600, Instruction Bulletin 4.7.

Application Tape: 3M Application Tape #SCPM-3, Instruction Bulletin 4.3.

Over laminating Film: ScotchPrint Film #8911 or #8931, Product Bulletin 8000, Instruction Bulletin 4.8;

Related Literature: ScotchPrint Toners, Product Bulletin 8700; Surface Preparation (Non-Vehicular), Instruction Bulletin 5.1;

Application Procedures: ControlTac Plus (Corrugated) Instruction Bulletin 5.4; and ControlTac Plus (Flat and Curved), Instruction Bulletin 5.6;

Removal Procedures: Instruction Bulletin 6.5

#### 10.4.4 ScotchPrint Film Series IJ180Cv3-10 Wall Covering Graphics

Method of Decoration: IJ180C base film with protective over laminate #8519, #8520 or #8515 and solvent inkjet or UV Inkjet printed graphics.

Base Film: Marking Film IJ180Cv3-10 2 Mil White, Product Bulletin PIJ180/180C, Instruction Bulletin 5.3.7.

Application Tape: 3M Application Tape #SCPS-55, Instruction Bulletin 4.3.

Over laminating Film: Scotchcal Films #8519 (Luster), #8520 (Matte) or #8515 (Ultra Matte) Product Bulletin 8000, Instruction Bulletin 4.22;

Related Literature: Appropriate Printer Inks Product Bulletins;

Application Procedures: Guide to understanding and applying graphics to common interior and exterior wall surfaces, Instruction Bulletin 5.37

Removal Procedures: Instruction Bulletin 6.5

#### 10.4.5 Manufacturing

Markings must be manufactured using materials and procedures described in the appropriate manufacturers Product and Instruction Bulletins and only by 3M Scotchprint Graphics Authorized Manufacturers.

#### 10.4.6 Graphics Installation

Surface preparation and application of markings must use the materials, methods and tools described in the appropriate Product and Instruction Bulletins. All work shall be performed by skilled technicians, especially trained and experienced in this product installation.

#### 10.4.7 Technical Assistance

Any technical questions relating to the 3M products referred to in the specification should be directed to 3M Commercial Graphics Technical Service at 800-328-3908.

#### 10.4.8 Manufacturers

Identified as 3M Scotchprint Graphics Authorized Manufacturers

- A. Vomela 800.240.9279
- B. Lowen Color Graphics 888.765.6936
- C. Craftsmen Industries 800.373.3575
- D. Approved Equal

## **11.0 Paints And Coatings**

### **11.1 Acrylic Polyurethane**

#### **11.1.1 Grip Gard®**

Grip Gard® approved automotive type paint systems manufactured by Akzo Nobel or approved equal. Signage Contractor shall be approved by the manufacturer for application of paint or coating system.

The spray area and substrate must be warm and have adequate airflow. Application of primers, top-coats, and clear coats should never take place in temperatures under 60°F/16°C. Substrates should also be brought to or above this temperature guideline before applying any primer or topcoat.

Signage Contractor shall apply paint system strictly observing the manufacturer's recommendations regarding application technique using internal mix conventional spray equipment. Apply as to achieve 100% coverage at the rate of 150 square feet per gallon or as manufacturer recommends.

Overall appearance must match specified color and pattern of approved samples. Pattern and sheen should be uniform. If primer is visible through paint when inspected, paint coverage will be considered incomplete and disapproved by the Owner or Graphic Designer. Should the Owner or Graphic Designer disapprove of the applied coating, the Signage Contractor shall bear all costs to complete paint finish.

#### **11.1.2 Manufacturer**

Akzo Nobel Coatings Inc.  
5555 Spalding Drive  
Norcross, GA 30092  
800.618.1010  
[www.signfinishes.com](http://www.signfinishes.com)

#### **11.1.3 Matthews**

Matthews acrylic polyurethane enamels as manufactured by the Matthews Paint Company, a division of PPG. Signage Contractor shall be approved by the manufacturer for application of paint or coating system.

The spray area and substrate must be warm and have adequate airflow. Application of primers, top-coats, and clear coats should never take place in temperatures under 60°F/16°C. Substrates should also be brought to or above this temperature guideline before applying any primer or topcoat.

Signage Contractor shall apply paint system strictly observing the manufacturer's recommendations regarding application technique using internal mix conventional spray equipment. Apply as to achieve 100% coverage at the rate of 150 square feet per gallon or as manufacturer recommends.

Overall appearance must match specified color and pattern of approved samples. Pattern and sheen should be uniform. If primer is visible through paint when inspected, paint coverage will be considered incomplete and disapproved by the Owner or Graphic Designer. Should the Owner or Graphic Designer disapprove of the applied coating, the Signage Contractor shall bear all costs to complete paint finish.

#### **11.1.4 Manufacturer**

Matthews Paint  
760 Pittsburgh Drive  
Delaware, OH 43015  
Ph: 800.323.6593

### **11.2 Bituminous Paint**

Cold-applied asphalt mastic for application to materials required to isolate dissimilar metals.

### **11.3 Paint Enamels**

Provide high quality sign lettering paints; colors to match those specified and applied per manufacturers instruction regarding application techniques. Apply to achieve 100% coverage at manufacturers recommended rate of coverage per gallon.

#### 11.3.1 Manufacturers

Use paints as manufactured by the following, or approved equal:

- A. Ronan Paints: 800.247.6626
- B. Chromatic Paint, One-Shot Lettering Enamel: 773.646.2778

### **11.4 Polyurethane Enamel**

Provide an aliphatic polyurethane enamel with ultraviolet inhibitors, lightfast, weather abrasions and wear resistant.

#### 11.4.1 Manufacturers

Use polyurethane enamels as manufactured by the following, or approved equal:

- A. Chemglaze Series: Hughson Chemical Division, Lord Corporation: 877.275.5673
- B. Imron: DuPont de Nemours & Company

### **11.5 Tnemec Paint**

#### 11.5.1 Reference Standards

Steel Structures Painting Council (SSPC)

- A. SSPC-Vis 1 Pictorial Surface Preparation Standards for Painting Steel Structures
- B. SSPC-SP2 Hand Tool Cleaning
- C. SSPC-SP3 Power Tool Cleaning
- D. SSPC-SP6 Commercial Blast Cleaning
- E. SSPC-PA2 Measurement of Dry Paint Thickness with Magnetic Gauges

American Society for Testing and Materials (ASTM)

- A. ASTM D 522 Mandrel Bend Test of Attached Organic Coating, Test Method B-Cylindrical Mandrel Test
- B. ASTM B 117 Method of Salt Spray (Fog) Testing
- C. ASTM D 4060 Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
- D. ASTM D 3359 Method for Measuring Adhesion by Tape Test

Federal Standards and Test Methods

- A. Federal Specification TT-P-86d, Types I and II.

#### 11.5.2 Approved Supplier

Products manufactured by the Tnemec Company, Inc., P.O. Box 4112749, Kansas City, Missouri 64141, are used herein to establish quality and type.

Products of other manufacturers may be submitted with supporting test data showing performance characteristics, which meet or exceed those standards set forth herein.

Shop Primer: 10-99 Tnemec Primer

### 11.5.3 Fabrication Priming

Shop paint all steelwork using the following systems:

- A. Surface Preparation: SSPC-SP6 Commercial Blast Cleaning
- B. Application: Follow coating manufacturer's printed directions.
- C. Material: 10-99 Tnemec Primer
- D. Number of Coats: One
- E. Dry Film Thickness: 2.0 mils minimum
- F. Volume Solids: 55.0 ± 2.0% minimum

### 11.5.4 Inspection

Visually evaluate surface preparation by comparison with pictorial standards in accordance with SSPC-Vis 1. Measure dry film thickness with a magnetic film thickness gauge in accordance with SSPC-PA2. Visually inspect dried film for runs, sags, dry spray, overspray, imbedded particles and missed areas. Repair defective or damaged areas in accordance with manufacturers instruction.

### 11.5.5 Stacking and Shipping

Keep primed steel off the ground by placing on wooden supports and keep members from touching each other by using wooden separators for stacking. Take measures to avoid damaging prime coat while stacking, loading or unloading and use wooden protectors to prevent damage from chain or cable cinches.

## 11.6 Translucent Coatings

Provide colors specified or selected by Graphic Designer and produced by one of the following:

- A. Grip-Flex: Akzo Nobel 800.618.1010
- B. Lacryl Series 400 or 800: Spraylat Corporation 800.867.7729

## 11.7 Powder Coating

An aliphatic-urethane color coating process that meets or exceeds AAMA 2605 requirements.

Provide custom colors specified or selected by the Graphic Designer.

- A. DuPont Power Coatings USA  
800.247.3886  
[www.dupontpowder.com](http://www.dupontpowder.com)
- B. Quality Powder Coating  
972.488.0635  
[www.qualitypowdercoating.com](http://www.qualitypowdercoating.com)
- C. TIGER Drylac U.S.A., Inc  
800.243.8148  
[www.tiger-coatings.us/](http://www.tiger-coatings.us/)



**B D G**

**Babendure Design Group**

8140 Walnut Hill Ln. #950

Dallas, Texas 75231

214.265.1960

[www.babendure.com](http://www.babendure.com)

## Message Schedule

**UNIVERSITY MEDICAL CENTER**  
 EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
0100A	Building Directory, Large				<p>Owner to r Directory f Layout can Constructic Package.</p> <p>Building Di Level 1.</p> <p>Fabricator directory (l include the numbers</p>
	INT.101.3				
0100B	Building Directory, Large				<p>Owner to r Directory f Layout can Constructic Package.</p> <p>Building Di Level 1.</p> <p>Fabricator directory (l include the numbers</p>
	INT.101.3				
0100C	Building Directory, Large				<p>Owner to r Directory f Layout can Constructic Package.</p> <p>Building Di Level 1.</p> <p>Fabricator directory (l include the numbers</p>
	INT.101.3				
08028	Elevator Directory, Small		<p>LEVEL 8 STAFF ONLY</p> <p>(Map)</p> <p>IN CASE OF FIRE DO NOT USE ELEVATORS PLEASE USE DESIGNATED EXIT STAIRS.</p>	(Translation Needed)	Need verifi sign at this
	INT.102.1				

**UNIVERSITY MEDICAL CENTER**  
**EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT**

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>08042</b>	Elevator Directory, Small		LEVEL 8 STAFF ONLY  (Map)	NIVEL 8 SOLO PERSONAL AUTORIZADO  (Map)	Need verification at this sign
	INT.102.1		IN CASE OF FIRE DO NOT USE ELEVATORS PLEASE USE DESIGNATED EXIT STAIRS.	En caso de incendio no use los elevadores. Favor de usar las escaleras de salida designadas.	
<b>08001</b>	Elevator Directory, Medium		Level 8  (Map)	NIVEL 8  (Map)	Architect to select color for sign
	INT.102.2		IN CASE OF FIRE DO NOT USE ELEVATORS PLEASE USE DESIGNATED EXIT STAIRS.  (List of Amenities)	En caso de incendio no use los elevadores. Favor de usar las escaleras de salida designadas.  (List of Amenities)	Need verification at this sign
<b>W809</b>	Wall Directional, Extra Small		<u>Header</u> 8 Floor / Piso East Tower	(Arrow Left) Sala de Usos Múltiples 862-875	Owner to provide
	INT.103.1		<u>Message</u> (Arrow Left) Multipurpose Room 862 - 875		
<b>W802</b>	Wall Directional, Small		<u>Header</u> 8 Floor / Piso East Tower	(Arrow Right) Sala de Conferencias Sala de Descanso Para Familiares 850-860	Owner to provide
	INT.103.2		<u>Message</u> (Arrow Right) Conference Room Family Lounge 850-860  (Arrow Left) Multipurpose Room 861 - 875	(Arrow Left) Sala de Usos Múltiples 861 - 875	

**UNIVERSITY MEDICAL CENTER**  
**EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT**

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>W805</b>	Wall Directional, Small		<u>Header</u> 8 Floor / Piso East Tower	(Arrow Right) Sala de Descanso Para Familiares Cocina Para Familiares	Owner to c
	INT.103.2		<u>Message</u> (Arrow Right) Family Lounge Family Kitchen Multipurpose Room	Sala de Usos Múltiples	
			(Arrow Left) Conference Room	(Arrow Left) Sala de Conferencias	
<b>W806</b>	Wall Directional, Small				Not Used
	INT.103.2				
<b>W801</b>	Overhead Directional, 1-Line Suspended		<u>Side A</u> (Arrow Left) East Tower Elevators #	<u>Side A</u> Elevadores de Torre Este	
	INT.104.1		<u>Side B</u> (Arrow Right) East Tower Elevators #	<u>Side B</u> Elevadores de Torre Este	
<b>W804</b>	Overhead Directional, 2-Line Suspended Small		(Arrow Right) Conference Room, 850 - 853	(Translation Needed)	12.16.20 Sign Type C
	INT.104.5		(Arrow Left ) 855 - 860		

**UNIVERSITY MEDICAL CENTER**  
**EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT**

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>W808</b>	Overhead Directional, 2-Line Suspended Small		(Arrow Right) Multipurpose & 861 - 867  (Arrow Left ) 869 - 875	(Translation Needed)	12.16.20 Sign Type C
	INT.104.5				
<b>08004</b>	Typical Room Identity	E3.08302 TELE/DATA	TELE/ DATE  E3.08302 (G2B)	TELECOMUNICACIONES/ DATOS  (Room Number) (G2B)	
	INT.105				
<b>08006</b>	Typical Room Identity	E3.08110 RESIDENT WORKROOM	RESIDENT WORK AREA  E3.08110 (G2B)	ÁREA DE TRABAJO PARA RESIDENTE  (Room Number) (G2B)	
	INT.105				
<b>08007</b>	Typical Room Identity	E3.08201 CLEAN SUPPLY	CLEAN SUPPLY  E3.08201 (G2B)	SUMINISTROS LIMPIOS  (Room Number) (G2B)	
	INT.105				

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08008	Typical Room Identity  INT.105	E3.08202 EXAM ROOM	EXAM 1  E3.08202 (G2B)	SALA DE EXAMINACIÓN 1  (Room Number) (G2B)	
08009	Typical Room Identity  INT.105	E3.08203 EXAM ROOM	EXAM 2  E3.08203 (G2B)	SALA DE EXAMINACIÓN 2  (Room Number) (G2B)	
08010	Typical Room Identity  INT.105	E3.08204 MEDS	MEDICATION  E3.08204 (G2B)	Medicamentos  (Room Number) (G2B)	
08011	Typical Room Identity  INT.105	E3.08306 ELEC	ELECTRICAL ROOM  E3.08306 (G2B)	CUARTO ELÉCTRICO  (Room Number) (G2B)	

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08013	Typical Room Identity  INT.105	E3.08308 KITCHEN / LOUNGE	FAMILY KITCHEN  E3.08308 (G2B)	Cocina Para Familiares  (Room Number) (G2B)	
08014	Typical Room Identity  INT.105	E3.08307 SOILED UTILITY	SOILED UTILITY  E3.08307 (G2B)	Utilería Sucia  (Room Number) (G2B)	
08015	Typical Room Identity  INT.105	E3.08406 NOURISH	NOURISHMENT  E3.08406 (G2B)	Alimentación  (Room Number) (G2B)	
08016	Typical Room Identity  INT.105	E3.08405 SOILED HOLD/ TRASH	SOILED HOLDING  E3.08405 (G2B)	ALMACÉN DE ROPA DE CAMA E INSTRUMENTOS SUCIOS  (Room Number) (G2B)	

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08017	Typical Room Identity	E3.08404 EVS	EVS E3.08404 (G2B)	EVS (Room Number) (G2B)	INT.105
08018	Typical Room Identity	E3.08401 MEDS	MEDICATION E3.08401 (G2B)	Medicamentos (Room Number) (G2B)	INT.105
08019	Typical Room Identity	E3.08400 EQUIPMENT / BED STORAGE	STORAGE E3.08400 (G2B)	ALMACÉN (Room Number) (G2B)	INT.105
08020	Typical Room Identity	E3.08309 CLEAN SUPPLY	CLEAN SUPPLY E3.08309 (G2B)	SUMINISTROS LIMPIOS (Room Number) (G2B)	INT.105

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08022	Typical Room Identity  INT.105	E3.08310 FAMILY LOUNGE	FAMILY LOUNGE  E3.08310 (G2B)	SALA DE DESCANSO PARA FAMILIARES  (Room Number) (G2B)	
08027	Typical Room Identity  INT.105	E3.08111 NOURISH	NOURISHMENT  E3.08111 (G2B)	Alimentación  (Room Number) (G2B)	
08029	Typical Room Identity  INT.105	E3.08109 NOURISH	CONFERENCE ROOM  E3.08109 (G2B)	SALA DE CONFERENCIAS  (Room Number) (G2B)	
08030	Typical Room Identity  INT.105	E3.08108 EVS	EVS  E3.08108 (G2B)	EVS  (Room Number) (G2B)	

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08032	Typical Room Identity  INT.105	E3.08000K HALL	AUTHORIZED PERSONNEL ONLY  E3.08000K (G2B)	SOLO PERSONAL AUTORIZADO  (Room Number) (G2B)	Does owner door?  Owner to c
08033	Typical Room Identity  INT.105	E3.08106 STAFF BREAKROOM / LOCKERS	Staff Only  E3.08106 (G2B)	Solo Personal Autorizado  (Room Number) (G2B)	
08034	Typical Room Identity  INT.105	E3.08105 PHY. LEADER OFFICE	OFFICE  E3.08105 (G2B)	Oficina  (Room Number) (G2B)	
08035	Typical Room Identity  INT.105	E3.08104 HOSPITALIST OFFICE	OFFICE  E3.08104 (G2B)	Oficina  (Room Number) (G2B)	

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08036	Typical Room Identity	E3.08103 DIRECTOR OFFICE	OFFICE E3.08103 (G2B)	Oficina (Room Number) (G2B)	
	INT.105				
08037	Typical Room Identity	E3.08102 MANAGER OFFICE	OFFICE E3.08102 (G2B)	Oficina (Room Number) (G2B)	
	INT.105				
08038	Typical Room Identity	E3.08101 CMO OFFICE	OFFICE E3.08101 (G2B)	Oficina (Room Number) (G2B)	
	INT.105				
08039	Typical Room Identity	E3.08100 SHARED OFFICE	WORKROOM E3.08100 (G2B)	SALA DE TRABAJO (Room Number) (G2B)	Owner to c
	INT.105				

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>08053</b>	Typical Room Identity  INT.105	E3.08408  MULTI PURPOSE ROOM	MULTIPURPOSE ROOM  E3.08408 (G2B)	SALA DE USOS MÚLTIPLES  (Room Number) (G2B)	
<b>08060</b>	Typical Room Identity  INT.105	E3.08410  CONSULT	CONSULT  E3.08410 (G2B)	CONSULTAS  (Room Number) (G2B)	
<b>08021</b>	Patient Room Identity, Child  INT.108.2	E3.0854  PATIENT ROOM	854  E3.0854 (G2B)		
<b>08023</b>	Patient Room Identity, Child  INT.108.2	E3.0853  PATIENT ROOM	853  E3.0853 (G2B)		

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08024	Patient Room Identity, Child	E3.0852 PATIENT ROOM	852 E3.0852 (G2B)		INT.108.2
08025	Patient Room Identity, Child	E3.0851 PATIENT ROOM	851 E3.0851 (G2B)		INT.108.2
08026	Patient Room Identity, Child	E3.0850 PATIENT ROOM	850 E3.0850 (G2B)		INT.108.2
08043	Patient Room Identity, Child	E3.0875 PATIENT ROOM	875 E3.0875 (G2B)		INT.108.2

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>08044</b>	Patient Room Identity, Child	E3.0874 PATIENT ROOM	874 E3.0874 (G2B)		INT.108.2
<b>08045</b>	Patient Room Identity, Child	E3.0873 PATIENT ROOM	873 E3.0873 (G2B)		INT.108.2
<b>08046</b>	Patient Room Identity, Child	E3.0872 PATIENT ROOM	872 E3.0872 (G2B)		INT.108.2
<b>08047</b>	Patient Room Identity, Child	E3.0871 PATIENT ROOM	871 E3.0871 (G2B)		INT.108.2

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08048	Patient Room Identity, Child	E3.0870 PATIENT ROOM	870 E3.0870 (G2B)		INT.108.2
08049	Patient Room Identity, Child	E3.0869 PATIENT ROOM	869 E3.0869 (G2B)		INT.108.2
08050	Patient Room Identity, Child	E3.0868 PATIENT ROOM	868 E3.0868 (G2B)		INT.108.2
08051	Patient Room Identity, Child	E3.0867 PATIENT ROOM	867 E3.0867 (G2B)		INT.108.2

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08052	Patient Room Identity, Child	E3.0866 PATIENT ROOM	866 E3.0866 (G2B)		
	INT.108.2				
08055	Patient Room Identity, Child	E3.0865 PATIENT ROOM	865 E3.0865 (G2B)		
	INT.108.2				
08056	Patient Room Identity, Child	E3.0864 PATIENT ROOM	864 E3.0864 (G2B)		
	INT.108.2				
08057	Patient Room Identity, Child	E3.0863 PATIENT ROOM	863 E3.0863 (G2B)		
	INT.108.2				

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08058	Patient Room Identity, Child	E3.0862 PATIENT ROOM	862  E3.0862 (G2B)		
	INT.108.2				
08059	Patient Room Identity, Child	E3.0861 PATIENT ROOM	861  E3.0861 (G2B)		
	INT.108.2				
08062	Patient Room Identity, Child	E3.0860 PATIENT ROOM	860  E3.0860 (G2B)		
	INT.108.2				
08063	Patient Room Identity, Child	E3.0859 PATIENT ROOM	859  E3.0859 (G2B)		
	INT.108.2				

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08064	Patient Room Identity, Child	E3.0858 PATIENT ROOM	858 E3.0858 (G2B)		INT.108.2
08065	Patient Room Identity, Child	E3.0857 PATIENT ROOM	857 E3.0857 (G2B)		INT.108.2
08066	Patient Room Identity, Child	E3.0856 PATIENT ROOM	856 E3.0856 (G2B)		INT.108.2
08067	Patient Room Identity, Child	E3.0855 PATIENT ROOM	855 E3.0855 (G2B)		INT.108.2

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>08003</b>	Restroom Identity	E3.08304 Public Toilet (ADA)	t;  PUBLIC RESTROOM	SANITARIO PARA PUBLICO  (Room Number) (G2B)	
	INT.109		E3.08304 (G2B)		
<b>08005</b>	Restroom Identity	E3.08300 Public Toilet (ADA)	t;  PUBLIC RESTROOM	SANITARIO PARA PUBLICO  (Room Number) (G2B)	
	INT.109		E3.08300 (G2B)		
<b>08012</b>	Restroom Identity	E3.08305 Public Toilet (ADA)	t;  PUBLIC RESTROOM	SANITARIO PARA PUBLICO  (Room Number) (G2B)	
	INT.109		E3.08305 (G2B)		
<b>08031</b>	Restroom Identity	E3.08107 STAFF TOILET (ADA)	t; STAFF RESTROOM	SANITARIO PARA PERSONAL  (Room Number) (G2B)	
	INT.109		E3.08107 (G2B)		

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08054	Restroom Identity	E3.08407 PATIENT TOILET	t; PATIENT RESTROOM  E3.08407 (G2B)	SANITARIO PARA PACIENTES  (Room Number) (G2B)	
	INT.109				
08040A	Stair Corridor Identity	STAIR	STAIR K  NO RE-ENTRY PLEASE KEEP DOOR CLOSED (G2B)	Escalera K  No se permite reentrar por esta puerta Favor de mantener esta puerta cerrada (g2b)	
	INT.112				
08061A	Stair Corridor Identity	STAIR	STAIR L  NO RE-ENTRY PLEASE KEEP DOOR CLOSED (G2B)	Escalera L  No se permite reentrar por esta puerta Favor de mantener esta puerta cerrada (g2b)	
	INT.112				
08040B	Stairwell Identity	STAIR	STAIR LEVEL K 8 (G2B) (G2B)  LEVELS B - R (G2B)  ROOF ACCESS (G2B)  A EXIT LEVEL 1 (G2B)		Sign should be part of the  Architect to be needed.
	INT.113				

**UNIVERSITY MEDICAL CENTER**  
**EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT**

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08061B	Stairwell Identity	STAIR	STAIR LEVEL L 8 (G2B) (G2B)  LEVELS B - R (G2B)  ROOF ACCESS (G2B)  A EXIT LEVEL 1 (G2B)		
	INT.113				
08002	Notice Posting, Small	E3.08303 Nurse Station	X	Solo Personal Autorizado	
	INT.114.1		Authorized Personnel Only		
08041A	Notice Posting, Small		X	ELEVADORES PARA PERSONAL	
	INT.114.1		STAFF ELEVATORS		
08041B	Notice Posting, Small		X	ELEVADORES PARA PERSONAL	
	INT.114.1		STAFF ELEVATORS		

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 EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>08056A</b>	Notice Posting, Small	E3.0864 PATIENT ROOM	ISOLATION	AISLAMIENTO	
	INT.114.1				
<b>08057A</b>	Notice Posting, Small	E3.0863 PATIENT ROOM	ISOLATION	AISLAMIENTO	
	INT.114.1				
<b>08058A</b>	Notice Posting, Small	E3.0862 PATIENT ROOM	ISOLATION	AISLAMIENTO	
	INT.114.1				
<b>08059A</b>	Notice Posting, Small	E3.0861 PATIENT ROOM	ISOLATION	AISLAMIENTO	
	INT.114.1				

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Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
08014A	Notice Posting, Medium	E3.08307 SOILED UTILITY	U Biohazard	U Riesgo Biológico	
	INT.114.2				
08016A	Notice Posting, Medium	E3.08405 SOILED HOLD/ TRASH	U Biohazard	U Riesgo Biológico	
	INT.114.2				
08054A	Flag Identity, Small, Wall-Mounted	E3.08407 PATIENT TOILET	<u>Side A</u> †  <u>Side B</u> †		
	INT.115.1				
W803	Flag Identity, Small, Wall-Mounted		<u>Side A</u> (Elevator symbol)  <u>Side B</u> (Elevator symbol)		12.01.20 Sign Type C
	INT.115.1				

**UNIVERSITY MEDICAL CENTER**  
 EL PASO CHILDREN'S - 8TH FLOOR BUILD OUT

Item No.	Sign Type ID	Arch. Room No. & Message	Signage Room No. & Message	Translation	Comments
<b>W807</b>	Flag Identity, Small, Wall-Mounted		<u>Side A</u> (Elevator symbol)  <u>Side B</u> (Elevator symbol)		12.01.20 Sign Type C
	INT.115.1				

<b>08012A</b>	Flag Identity, Small, Hanging	E3.08305 Public Toilet (ADA)	<u>Side A</u> †  <u>Side B</u> †		
	INT.115.2				