

HISTORIC AND DESIGN REVIEW COMMISSION

April 15, 2015

Agenda Item No: 15

HDRC CASE NO:	2015-121
COMMON NAME:	Collins Garden Library
ADDRESS:	200 N PARK BLVD
LEGAL DESCRIPTION:	NCB: 6274 BLK: 31 LOT: 32 COLLINS GARDENS BRANCH LIBRY
ZONING:	R5
CITY COUNCIL DIST.:	5
APPLICANT:	Stacey Gonzales
OWNER:	David Alvidrez
TYPE OF WORK:	New entrance addition and facade renovations

REQUEST:

The applicant is requesting a Certificate of Appropriateness for the remodel of the existing building as well as an addition to the Collins Garden Branch Library. The proposed work includes:

1. New entrance addition (997 sf) and façade reface.
2. Patch and repair damaged pavers.
3. Replacement of pavers with salt finish concrete.
4. Restroom addition / ADA compliance (70 sf) and District Council Office.
5. New signage.

APPLICABLE CITATIONS:

UDC Section 35 – 643. – Alteration, Restoration and Rehabilitation

- a. Every reasonable effort shall be made to adapt the property in a manner which requires minimal alteration of the building, structure, object, or site and its environment.
- b. The distinguishing original qualities or character of a building, structure, object, or site and its environment, shall not be destroyed. The removal or alteration of any historic material or distinctive architectural features should be avoided when possible.
- c. All buildings, structures, objects, and sites shall be recognized as products of their own time. Alterations that have no historical basis and which seek to create an earlier appearance shall be discouraged.
- d. Changes which may have taken place in the course of time are evidence of the history and development of a building, structure, object, or site and its environment. These changes may have acquired significance in their own right, and this significance shall be recognized and respected.
- e. Distinctive stylistic features or examples of skilled craftsmanship which characterize a building, structure, object, or site shall be kept where possible.
- f. Deteriorated architectural features shall be repaired rather than replaced, wherever possible. In the event replacement is necessary, the new material should reflect the material being replaced in composition, design, color, texture, and other visual qualities. Repair or replacement of missing architectural features should be based on accurate duplications of features, substantiated by historical, physical, or pictorial evidence rather than on conjectural designs or the availability of different architectural elements from other buildings or structures.
- g. The surface cleaning of structures shall be undertaken with the gentlest means possible. Sandblasting, high pressure washes and other cleaning methods that will damage the historic building's materials shall not be undertaken.
- h. Every reasonable effort shall be made to protect and preserve archaeological resources affected by, or adjacent to, any project.
- i. Contemporary design for alterations and additions to existing properties shall not be discouraged when such alterations and additions do not destroy significant historical, architectural or cultural material, and such design is compatible with the size, scale, color, material, and character of the property, neighborhood or environment.
- j. Wherever possible, new additions or alterations to buildings, structures, objects, or sites shall be done in such

a manner that if such additions or alterations were to be removed in the future, the essential form and integrity of the building, structure, object, or site would be unimpaired.

UDC Section 35-642 – New Construction of Buildings and Facilities:

a. Site and Setting

2. Special consideration should be given to maintain existing urban design characteristics, such as setbacks, building heights, streetscapes, pedestrian movement, and traffic flow. Building placement should enhance or create focal points and views. Continuity of scale and orientation shall be emphasized.
3. Accessibility from streets should be designed to accommodate safe pedestrian movement as well as vehicular traffic. Where possible, parking areas should be screened from view from the public right-of-way by attractive fences, berms, plantings or other means.
4. Historically significant aspects of the site shall be identified and if possible incorporated into the site design. Historic relationships between buildings, such as plazas or open spaces, boulevards or axial relationships should be maintained.

b. Building Design

1. Buildings for the public should maintain the highest quality standards of design integrity. They should elicit a pride of ownership for all citizens. Public buildings should reflect the unique and diverse character of San Antonio and should be responsive to the time and place in which they were constructed.
2. Buildings shall be in scale with their adjoining surroundings and shall be in harmonious conformance to the identifying quality and characteristics of the neighborhood. They shall be compatible in design, style and materials. Reproductions of styles and designs from a different time period are not encouraged, consistent with the secretary of the interior's standards. Major horizontal and vertical elements in adjoining sites should be respected.
3. Materials shall be suitable to the type of building and design in which they are used. They shall be durable and easily maintained. Materials and designs at pedestrian level shall be at human scale, that is they shall be designed to be understood and appreciated by someone on foot. Materials should be selected that respect the historic character of the surrounding area in texture, size and color.
5. Colors shall be harmonious with the surrounding environment, but should not be dull. Choice of color should reflect the local and regional character. Nearby historic colors shall be respected.
8. Auxiliary design. The site should take into account the compatibility of landscaping, parking facilities, utility and service areas, walkways and appurtenances. These should be designed with the overall environment in mind and should be in visual keeping with related buildings, structures and places.

UDC Section 35-645 – Signs and Billboards on Public Property or Right-of-Way

Proportion of Signs. Signage width and height must be in proportion to the facade, respecting the size, scale and mass of the facade, building height, and rhythms and sizes of window and door openings. The building facade shall be considered as part of an overall sign program but the sign shall be subordinate to the overall building composition. Additionally, signs should respect and respond to the character and/or period of the area in which they are being placed.

(d) **Standards for Sign Design and Placement.** In considering whether to recommend approval or disapproval of an application for a certificate to construct or alter signage on a building, object, site, or structure, the historic and design review commission shall be guided by the following standards in addition to any specific design guidelines adopted by city council:

- (1) Primary sign design considerations shall be identification and legibility. Size, scale, height, color and location of signs shall be harmonious with, and properly related to, the overall design of the building or structure and the surrounding area.
- (2) The number of signs on each building shall be kept to a minimum to prevent unsightly clutter and confusion.
- (3) Signs which describe, point, or direct the reader to a specific place or along a specific course, such as "entrance," "exit," and "handicap access" shall be reviewed.
- (4) All graphic elements shall reinforce the architectural integrity of any building. Signs should not disfigure, damage, mar, alter, or conceal architectural features or details and should be limited to sizes which are in scale with the architecture and the streetscape. The historic and design review commission shall be guided by the building's proportion and scale when such elements are incorporated.

(5) Additionally, when reviewing applications for signage the historic preservation officer and the historic and design review commission shall consider the visual impact on nearby historic resources and established neighborhood character.

FINDINGS:

- a. The existing structure is a public library.
- b. The proposed improvements are appropriate for the existing structure and are compatible with the size, scale, color, material, and character of the property and environment. This is consistent with the UDC Section 35-643.i-j.
- c. The new entrance vestibule/façade reface will utilize aluminum painted panels, a perforate metal screen wall, and a painted bent steel plate canopy. The contemporary design and use of materials is consistent with the UDC Section 35-643.i.
- d. The proposed new storefront will feature an aluminum thermal frame system with insulated glass. This is consistent with the UDC Section 35- 643.a & 1.
- e. The proposed library signage will be constructed with 1” thick aluminum metal letters. The free-standing letters will be strap - mounted to the storefront’s aluminum frame. The signage is proportional in size and scale with the façade of the building. The signage meets the standards for sign design and placement as outlined in the UDC Section 35-645d.1-5.
- f. The proposed patch and repair of the damaged pavers located east of the main entrance would be consistent with the UDC Section 35-642.a.2. The proposed alternate plan of replacing the existing pavers with salt finish concrete would also be appropriate and would be consistent with the preceding UDC section.
- g. The proposed restroom and alternate additions along the north elevation would infill existing intruded areas on the façade. The additions would become flush with the existing adjacent walls and would be finished with cement plaster to match existing. These alterations are appropriate and consistent with the UDC Section 35-642.b. & 643.

RECOMMENDATION:

Staff recommends approval of items 1-5 based on findings a through g.

CASE MANAGER:

Alyson Smith



200 N. Park

Printed: Mar 18, 2015

Collins Garden Library

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March 2015

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PHOTOS – EAST ELEVATION

COLLINS GARDEN BRANCH LIBRARY

ALVIDREZ
architecture inc.

Sheet 2 of 21



March 2015

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PHOTOS – NORTH ELEVATION

COLLINS GARDEN BRANCH LIBRARY



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PHOTOS – SOUTH ELEVATION

COLLINS GARDEN BRANCH LIBRARY



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PHOTOS – INTERIOR

COLLINS GARDEN BRANCH LIBRARY





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PHOTOS – INTERIOR

COLLINS GARDEN BRANCH LIBRARY



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PHOTOS – INTERIOR

COLLINS GARDEN BRANCH LIBRARY



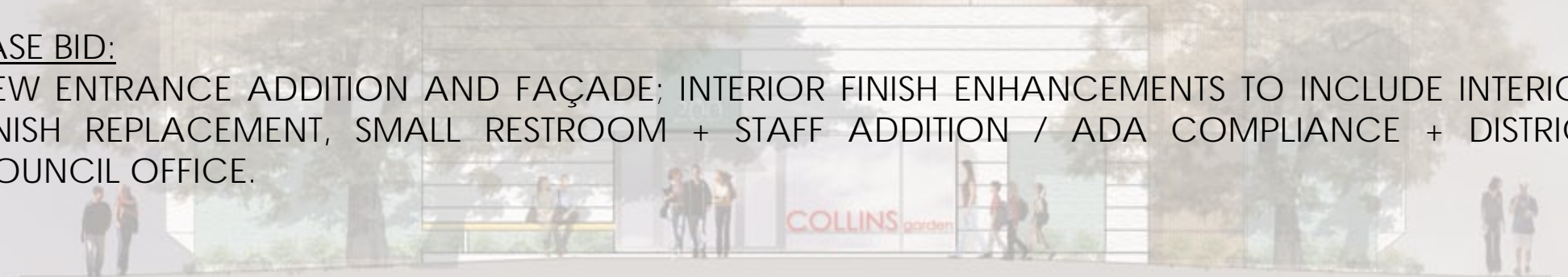
Sheet 7 of 21

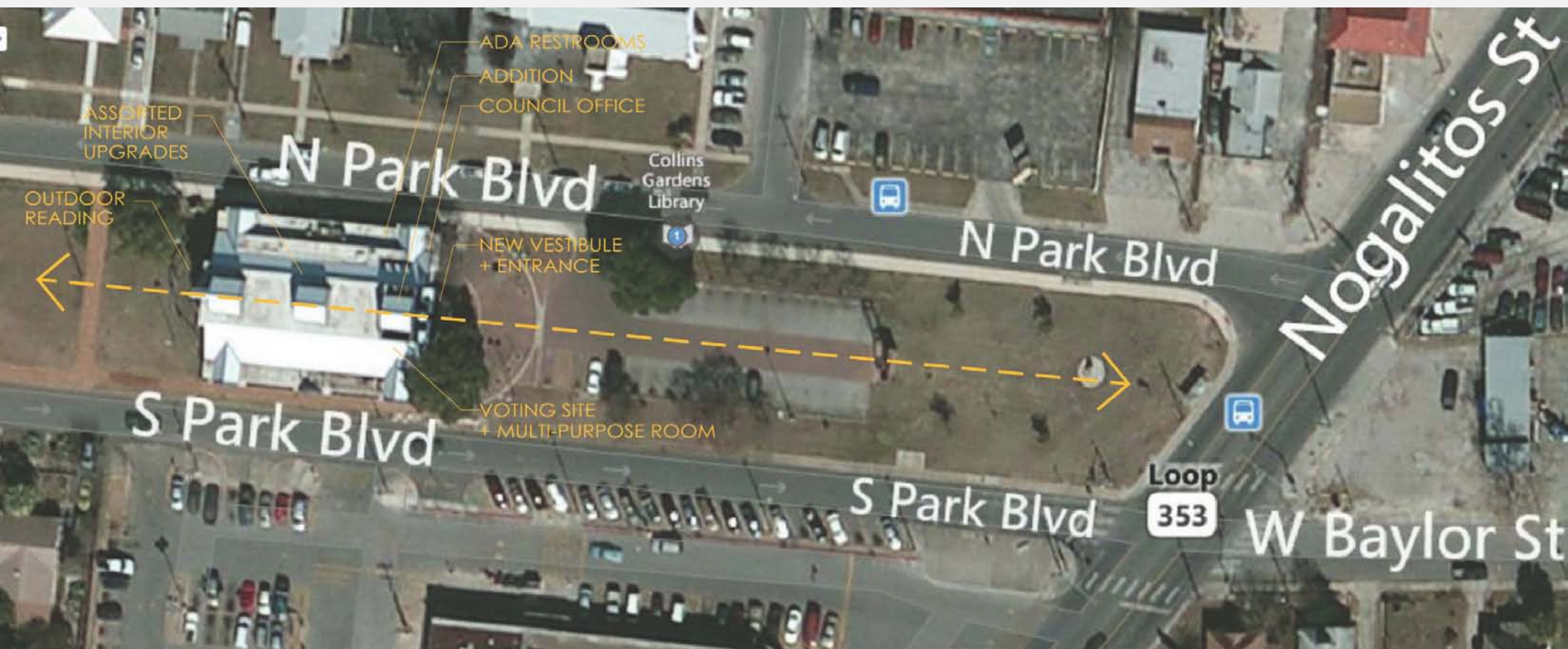
SCOPE OF WORK:

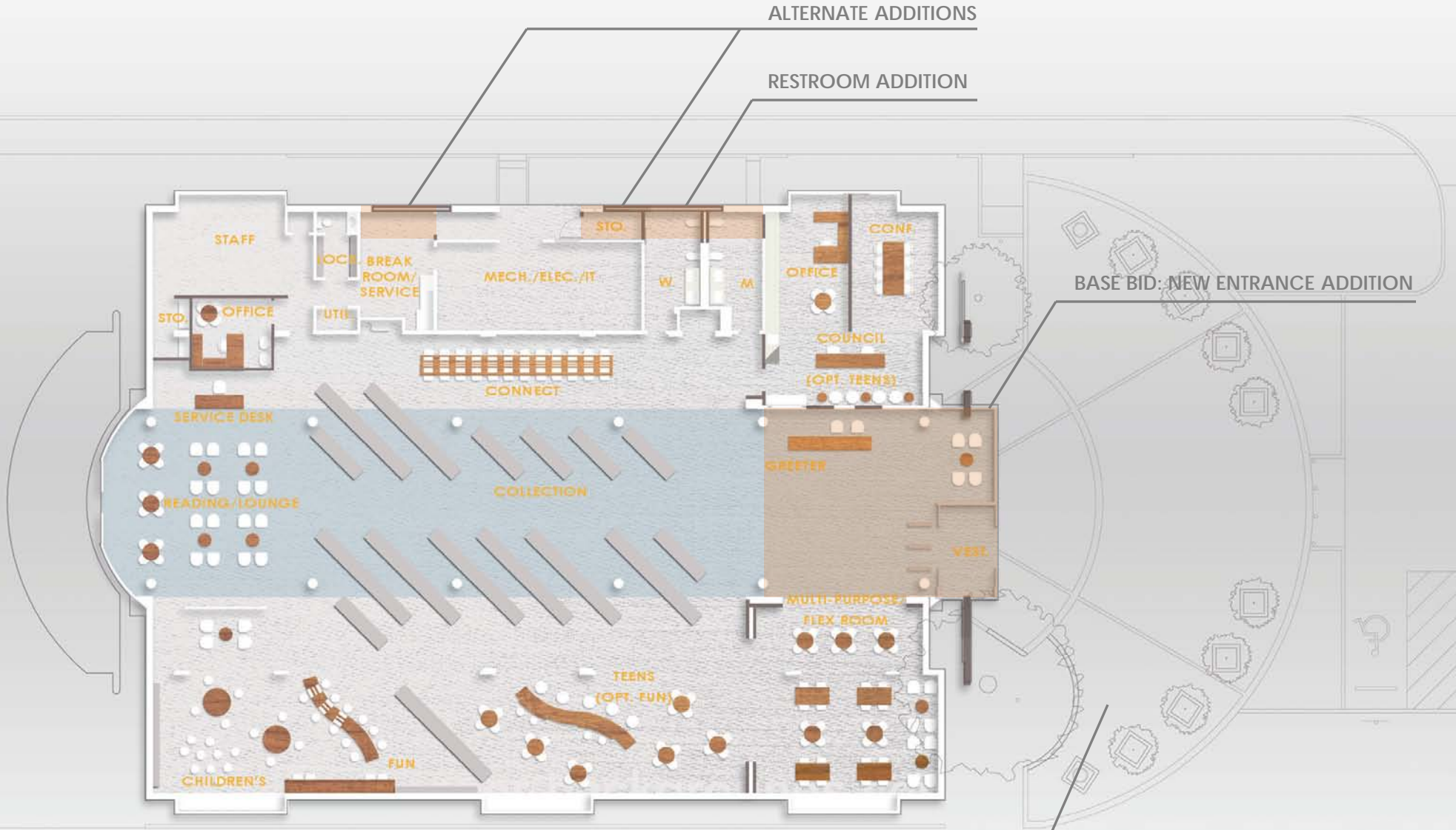
THE WORK INCLUDES THE REMODEL OF THE EXISTING BUILDING AS WELL AS AN ADDITION TO THE **COLLINS GARDEN BRANCH LIBRARY**. THE PROJECT SCOPE INCLUDES MINOR EXTERIOR IMPROVEMENTS, CONCRETE, MASONRY, METALS, WOODS, PLASTICS, AND COMPOSITES, THERMAL AND MOISTURE PROTECTION, OPENINGS, FINISHES, FURNISHINGS, MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS.

BASE BID:

NEW ENTRANCE ADDITION AND FAÇADE; INTERIOR FINISH ENHANCEMENTS TO INCLUDE INTERIOR FINISH REPLACEMENT, SMALL RESTROOM + STAFF ADDITION / ADA COMPLIANCE + DISTRICT COUNCIL OFFICE.







BASE BID: PATCH + REPAIR OF DAMAGED PAVERS
 ALTERNATE: REPLACEMENT OF PAVERS WITH SALT FINISH CONCRETE



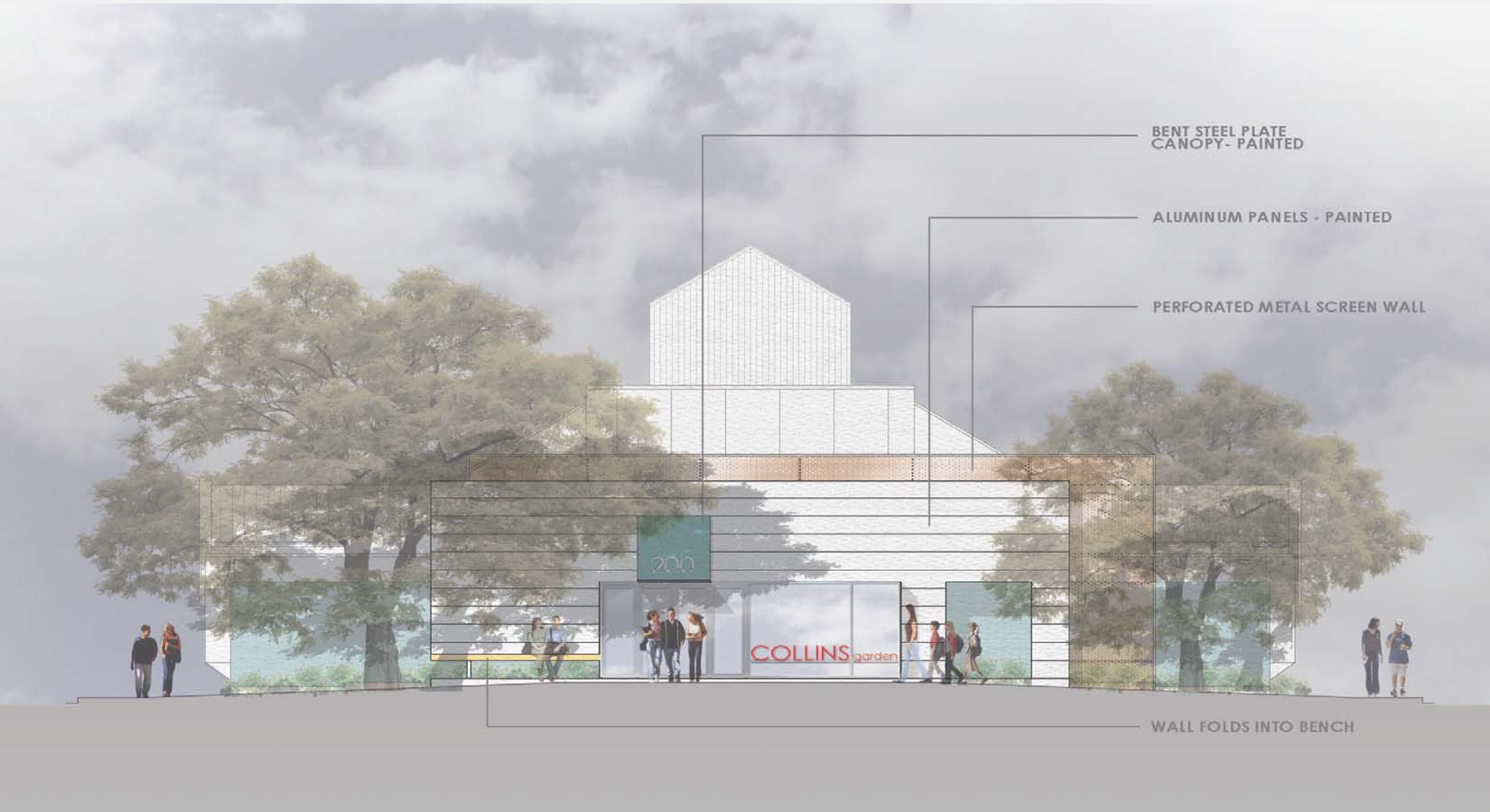
March 2015

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FLOOR PLAN

COLLINS GARDEN BRANCH LIBRARY





BENT STEEL PLATE
CANOPY - PAINTED

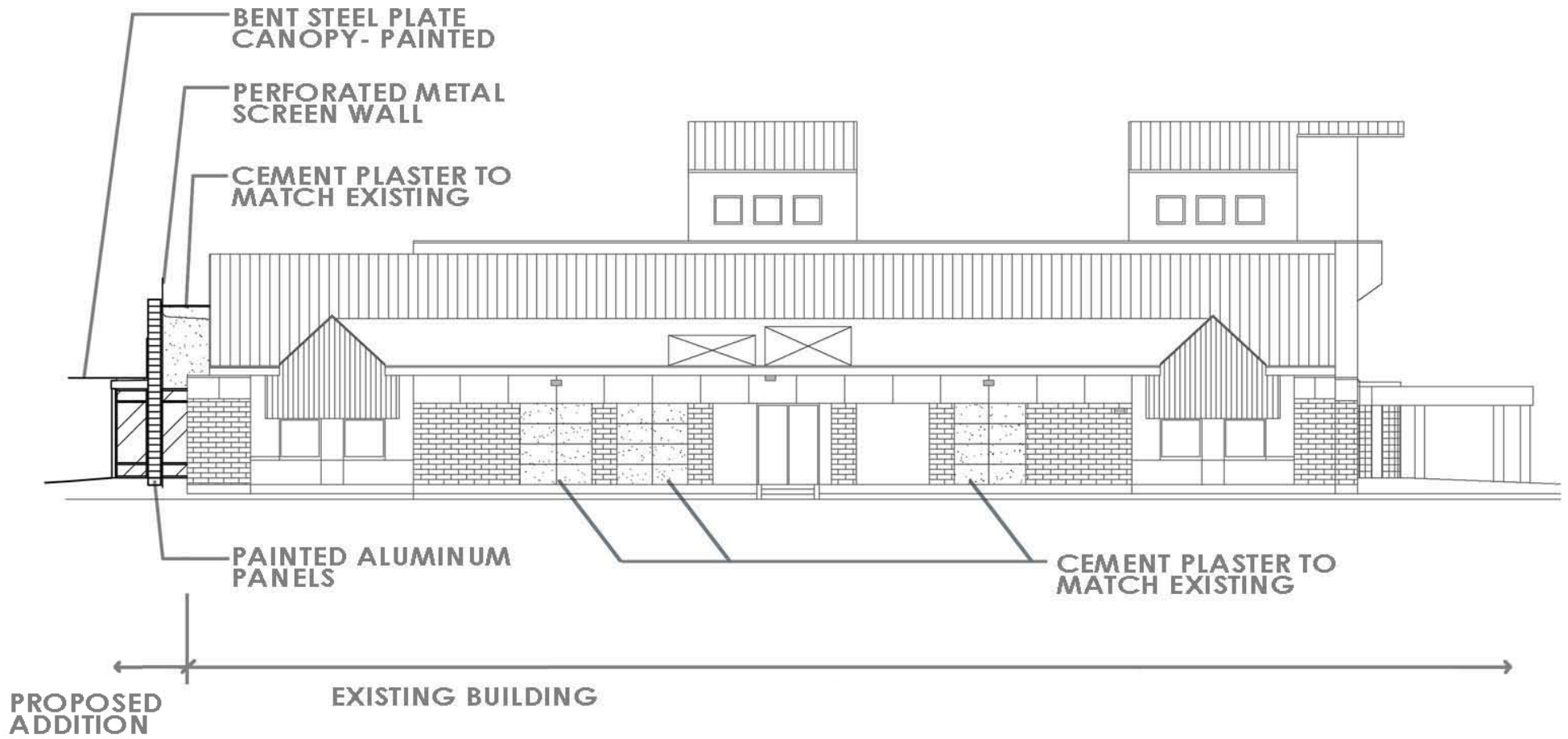
ALUMINUM PANELS - PAINTED

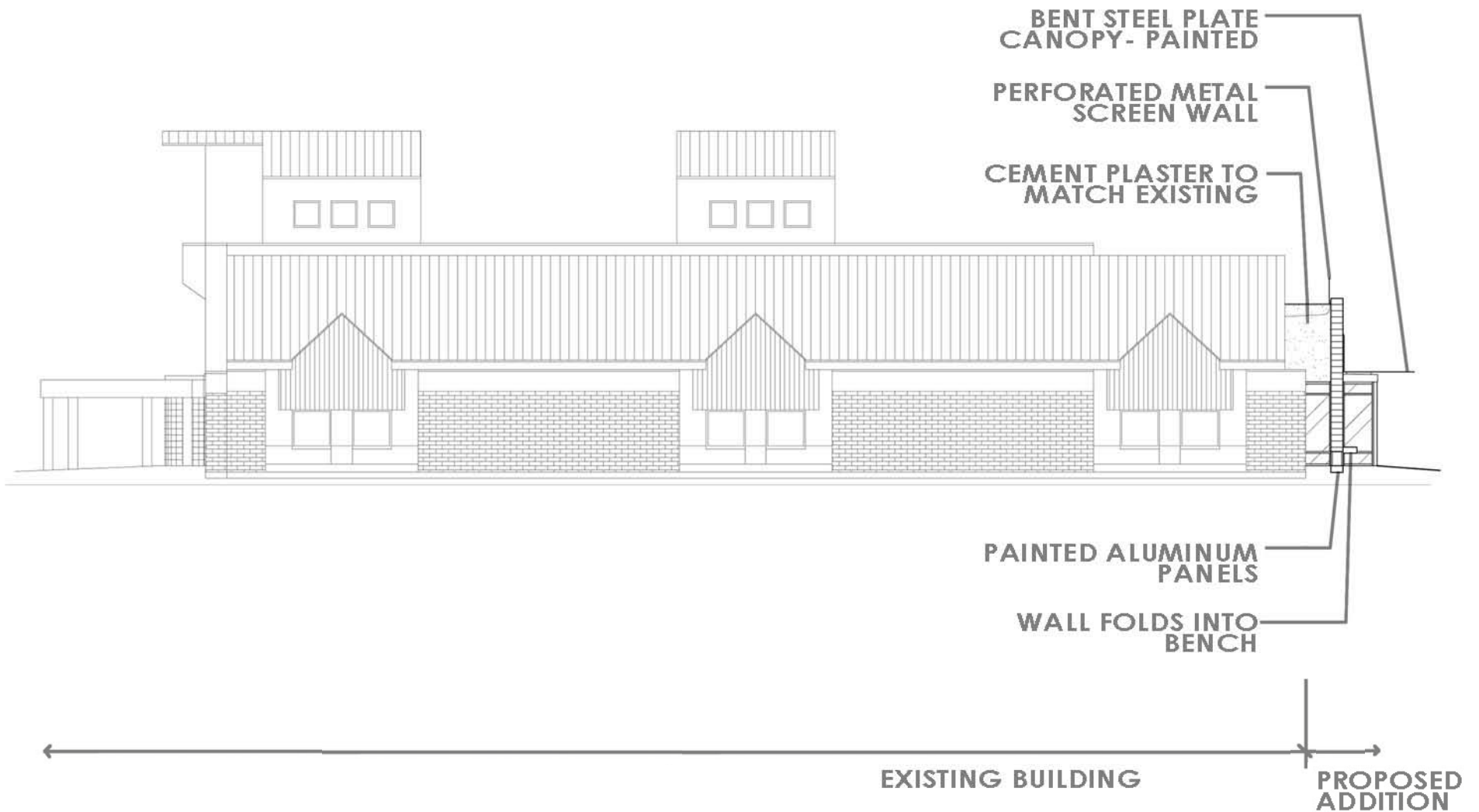
PERFORATED METAL SCREEN WALL

WALL FOLDS INTO BENCH

2015

COLLINS garden





MORE THAN JUST BUILDINGS

RMIG City Emotion is for everyone who values the beautiful and innovative qualities of our cities, because a city is not just about buildings. A city is a place for emotion and it requires our full attention to unleash its aesthetic appeal.

RMIG City Emotion captures the passion for creative urban design by offering innovative technologies and materials. We can help you realise the most ambitious architectural projects and their emotional potential.

- Let us guide you through the benefits and practicality of your design
- We can work on your drawings in CAD, 2D and 3D formats
- Use perforated sheets, embossed sheets or expanded metal
- Enjoy the unique finishing operations and surface treatments

RMIG is the world's largest manufacturer and supplier of perforated metal. In addition to exterior cladding, the company also supplies products for a large number of construction applications such as car park and security screening, acoustic wall linings, ceilings, lighting, street furniture, balustrades and walkways.

Austria: +43 2256 62482

Belgium: +32 63 76 77 40

Denmark: +45 44 20 88 00

France: +33 4 72 47 43 43

Germany: +49 34 906 50 0

Italy: +39 010 740 39 39

The Netherlands: +31 184 491 919

Norway: +47 33 33 66 66

Poland: +48 61 88 63 270

Romania: +40 742 990228

Spain: +49 34 906 50 334

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Switzerland: +41 62 287 88 88

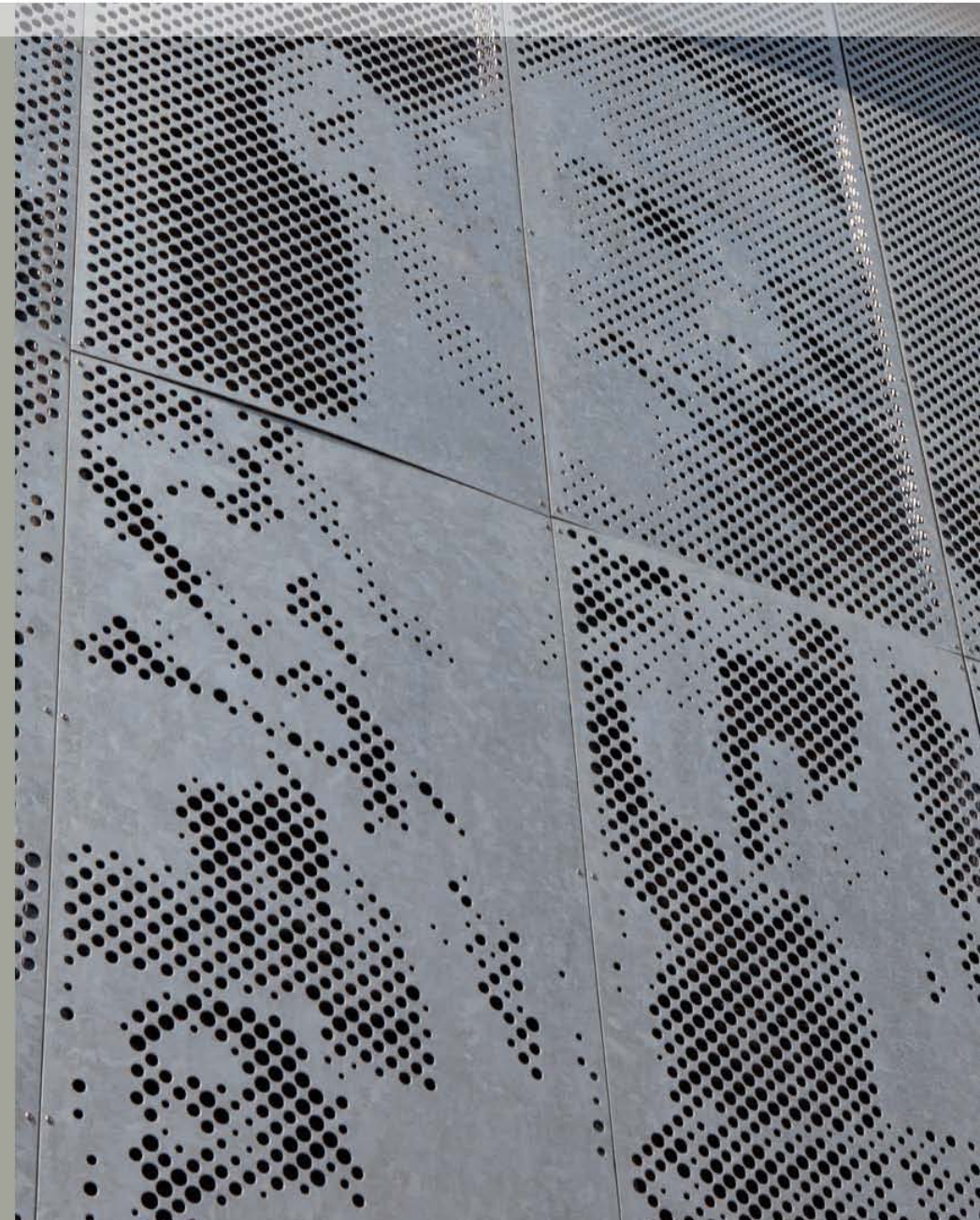
United Kingdom: +44 1925 839 610

Other locations

Eastern Europe: +43 2256 62482 311

Outside Europe: +45 44 20 88 00

WWW.CITY-EMOTION.COM



DRI-DESIGN'S ENVIRONMENTAL FOOTPRINT

At Dri-Design we strive to continually improve our Sustainability practices and products through innovation. We are dedicated to developing sustainable products while looking at all aspects of the environmental impact.

MADE LOCAL

Dri-Design purchases its aluminum from domestic mills which saves transportation energy costs.

NO SILICONE SEALANTS

Dri-Design uses no joint sealants or gaskets which are made with petroleum, saving fossil fuels and future maintenance costs.

RECYCLED AND RECYCLABLE

Dri-Design wall panels are made with recycled metal, are 100% recyclable and can be repurposed.

EFFICIENT MANUFACTURING

Dri-Design panels are made quickly with highly automated equipment... saving energy costs.

QUICK INSTALL

Dri-Design wall panels install fast which helps save energy as well.

NO PLASTICS

Dri-Design single skin technology does not have a plastic core like our MCM competitors... saving fossil fuels.

NO VOCs

Our Kynar paint providers are environmentally-conscious finishers. They use a 100% air capture system and destroy the VOCs with a regenerative thermal oxidizer, so there is no adverse environmental impact.

dri-design.com | 616.355.2970



Technical Information:

System Depth - 1 ¼" nominal

Material - Aluminum

Material Thickness - .080" standard (other gauges available)

Panel Joints - ½" nominal standard (1/8" - 1" available)

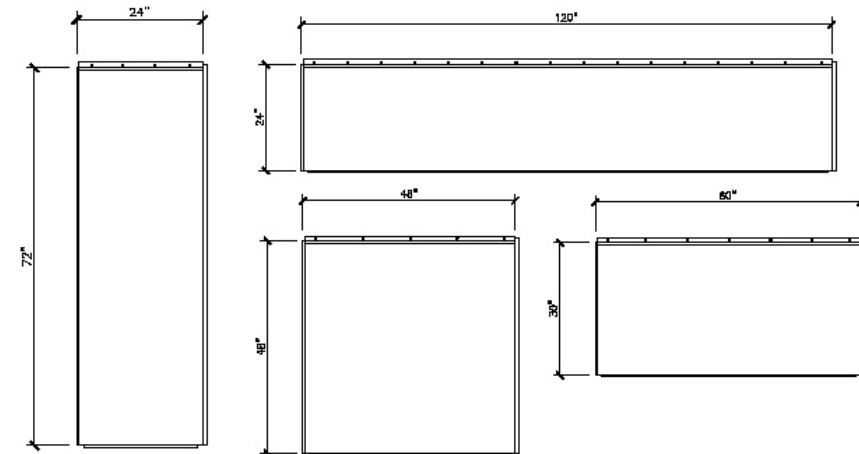
Finish - Fluoropolymer, unlimited color palette

Finish Warranty - 20 year standard

Weight - Less than 2 pounds per square foot

Panel Size Parameters:

These are the recommended maximum size panel guides. If the panel you would like fits inside these guides, Dri-Design can easily manufacture it. For larger sizes, please contact a Dri-Design representative to discuss your specific requirements.



DRI-DESIGN METAL WALL PANELS

Through research and real life experience in the metal panel industry, Dri-Design was invented to solve what were viewed as significant shortfalls of traditional metal panel systems: delamination, staining due to the effects of weather on joints and gaskets, a lack of color and texture options, the rising cost of production and inefficient installation practices.

The result of Dri-Design's meticulous engineering is a 100% recyclable, pressure equalized rain-screen, architectural metal wall system that attaches to nearly any substrate without the use of clips or extrusions. Additionally, Dri-Design's patented design has passed the most stringent air, water and structural testing requirements in the industry, including AAMA 508-07 test for pressure equalized rain-screens, as well as Miami Dade County hurricane testing.

Key Advantages of Dri-Design:

- No sealants, gaskets or butyl tape in the panel joints, means no dirty streaks or a legacy of maintenance for the building owner.
- Panels are not laminated nor a composite - they will never delaminate.
- Dedicated to developing sustainable products.
- Fully tested to exceed ASTM standards and the latest AAMA 508-07 for pressure equalized rain-screens. Miami Dade approved.
- Interlocking panel design makes installation quick and easy.
- Dri-Design is economical. Our highly automated manufacturing process makes panels in seconds.

Formed Outside Corner and Column Size Parameters

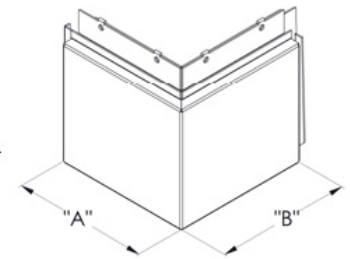
Formed Outside Corner:

Aluminum:

- One dimension (either dimension "A" or "B") must not exceed a maximum dimension of 24".
- The minimum dimension is 4".
- The total unfolded panel length cannot exceed standard aluminum flat panel size parameters.
- If you have corner panels that fall outside of these parameters, contact Dri-Design for additional options.

VMZINC®:

- One dimension (either dimension "A" or "B") must not exceed a maximum dimension of 18".
- The minimum dimension is 4".
- The total unfolded panel length cannot exceed 72".
- If you have corner panels that fall outside of these parameters, contact Dri-Design for additional options.



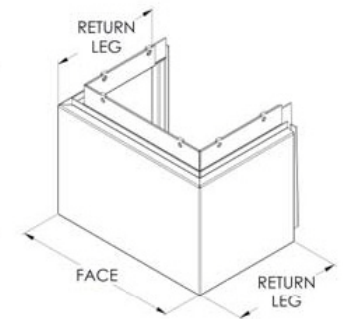
Columns:

Aluminum:

- The return leg dimensions cannot exceed 80% of the column face (.8x") or a maximum of 24".
- The total unfolded panel length cannot exceed standard aluminum flat panel size parameters.
- If you have column panels that fall outside of these parameters, contact Dri-Design for additional options.

VMZINC®:

- The return leg dimensions cannot exceed 80% of the column face (.8x") or a maximum of 18".
- The total unfolded panel length cannot exceed 72".
- If you have column panels that fall outside of these parameters, contact Dri-Design for additional options.



EnCORE™ Thermal Framing System

A Proven Performer
Recognized for
Economical Installation



Forever 21 – Hawaii
Architect: J.T. Nakaoika Associates Architects, Los Angeles, California, USA
Glazing Contractor: Reflections Glass, Waipahu, Hawaii, USA
Photography: © Aqua Photo

Taking center stage in Kawneer's lineup, the EnCORE™ Thermal Framing System is a two-piece, face-and-gutter system that offers thermal economy, a Structural Silicone Glazing (SSG) option and numerous design choices. Engineered for easy installation and lower costs, features include the unique QuickSeal™ self-sealing system, a broad selection of system depths and a 1-3/4" (44.5 mm) minimal sightline. EnCORE™ Thermal Framing readily adapts to remodel projects and new construction, whether traditional or modern architecture.

Economy

EnCORE™ Thermal Framing System's QuickSeal™ dry-glazed self-sealing framing system is the first to eliminate joint sealant at horizontal joints, making it more cost effective. The vertical gasket runs through, and when "pinched" by the head, sill and intermediate horizontals, a watertight seal is created, eliminating the need for sealant.

By using the same extrusions for horizontal and vertical mullions, metal utilization is maximized. In addition, the tongue on the extrusions eliminates the need for a secondary, continuous water deflector, thus economizing on installation costs and time.

EnCORE™ Thermal Framing also requires no setting block chair at intermediate horizontals. And at the sill, the system utilizes a simple setting block chair that fits snugly within the glazing pocket and requires no fastening. The system accepts standard 1" (25.4 mm) or 1/4" (6.4 mm) infills and can also be adapted to accept other infills in 1/8" (3.2 mm) increments.

The top-loaded glazing gaskets are the same as those used in the Kawneer flagship TriFab™ Framing Systems, which helps reduce field labor and minimize inventory requirements.

Providing single-source responsibility, Kawneer entrances, windows, curtain walls and slope glazing are compatible with EnCORE™ Thermal Framing.

Performance

A specially engineered thermal clip eliminates metal-to-metal contact by snapping onto the mullion. The cover then snaps onto the clip for true thermal integrity. In addition, the clip has an extended leg on one side, which acts as a "w" block and prevents shifting of glass due to climate changes and building movement.

Engineered to meet or exceed certified performance requirements for air and water infiltration, EnCORE™ Thermal Framing has been fully tested according to ASTM E283 and ASTM E331. Thermal testing was completed in accordance with AAMA 1503.

EnCORE™ Thermal Framing also offers architects and building owners the ability to determine project-specific U-factors by referring to thermal tables in our architectural manual. Unique to Kawneer, these tables enable U-factor calculations for each project by utilizing the total glass percentage and the project's center of glass (COG) U-factor.

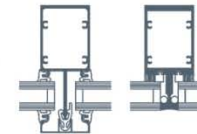
Aesthetics

For additional freedom of expression, EnCORE™ Thermal Framing offers front or center glazing options. A Structural Silicone Glazing (SSG) option is also available. And to provide greater design flexibility, the face-and-gutter system offers system depths of 3-9/16" (90.5 mm), 4-1/2" (114.3 mm) or 6" (152.4 mm) front glazed and 4-1/2" (114.3 mm) center glazed.

The 1-3/4" (44.5 mm) minimal sightline provides consistent design aesthetics, while a 1-1/4" (31.75 mm) perimeter sightline is also available. Since the exterior face and interior mullions are separate pieces, two-color design considerations are easily realized.



Forever 21 – Hawaii
Architect: J.T. Nakaoika Associates Architects, Los Angeles, California, USA
Glazing Contractor: Reflections Glass, Waipahu, Hawaii, USA



Another key feature of EnCORE™ Thermal Framing's separate components is that they are easily adapted to curved applications. The framing is available in three fabrication methods: screw spline, shear block or Type B, which is a combination of both.

For the Finishing Touch

Permanodic™ anodized finishes are available in Class I and Class II in seven different color choices.

Painted finishes, including fluoropolymer, that meet or exceed AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the "green" element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.

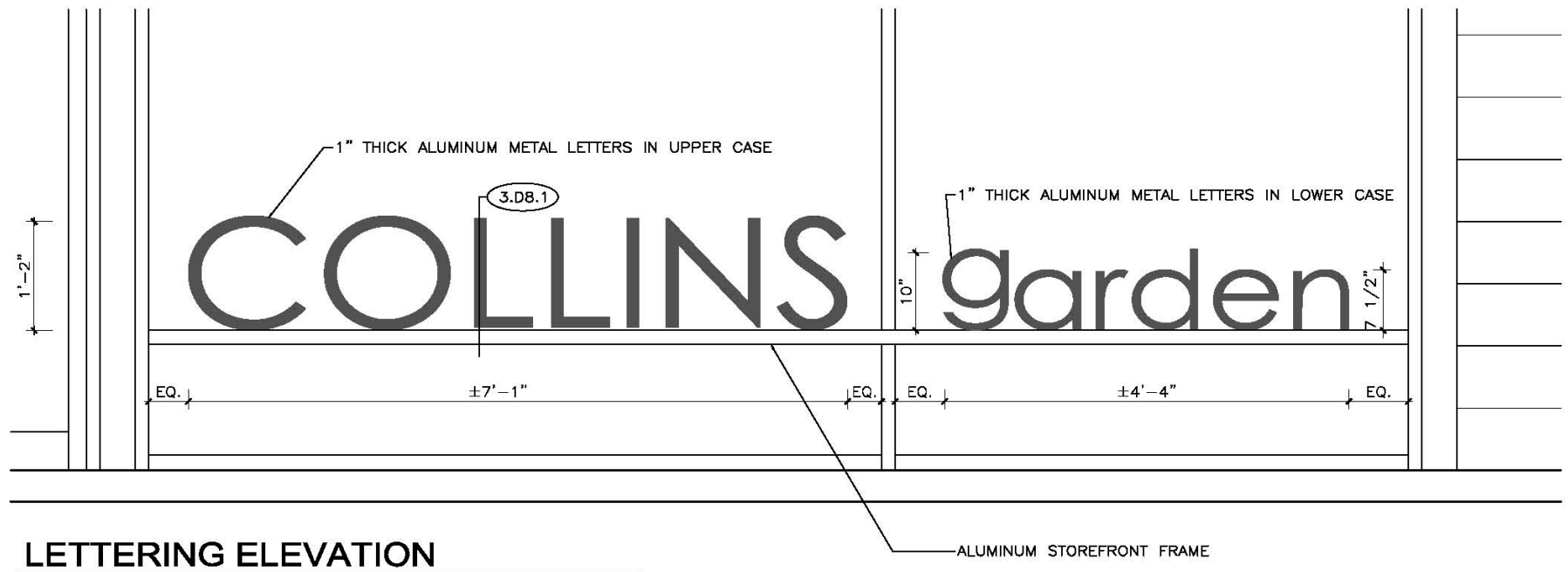
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Technology Park / Atlanta
555 Guthridge Court
Norcross, GA 30092

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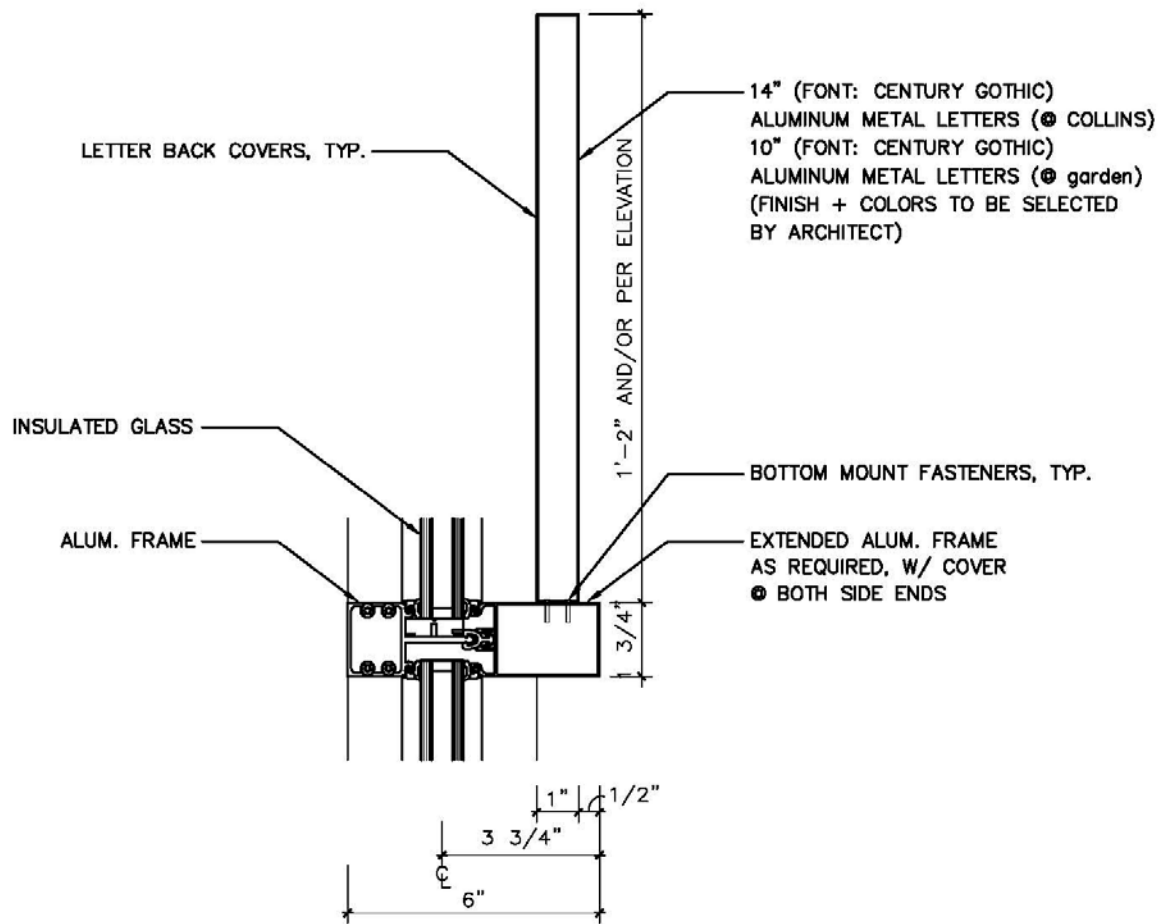
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LETTERING ELEVATION

SCALE: N.T.S.



3.D8.1 STOREFRONT JAMB + ALUM. LETTERS

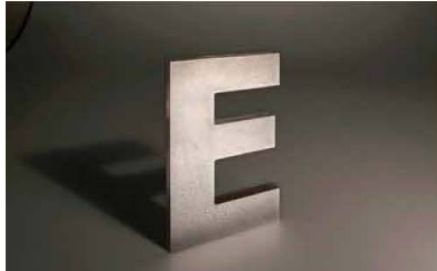
SCALE: 3" = 1'-0"

METAL FACE LETTERS/GRAPHICS

CCSW also offers precision cut metal faced letters. Metal faced letters look elegant, professional and are lightweight. A thin metal sheet is bonded to an acrylic substrate, giving the illusion of solid metal. This is a great option for interior applications, where a high quality look is desired for a cost effective price. Choose from a clear or black acrylic core.



POLISHED GOLD FACE



FLORENTINE FACE



ANODIZED ALUMINUM FACE



BRUSHED BLACK ALUMINUM FACE



SATIN BRUSHED LITE BRONZE FACE



6" REVUE BT FONT, SATIN BRASS FACE OVER 3/8" BLACK ACRYLIC

CUSTOM FABRICATION

Make a bold statement with custom fabricated letters and graphics. This is a perfect choice when you want your message back-lit. Our highly trained and experienced craftsman can fabricate your design to specification.



STAINLESS STEEL CUSTOM FABRICATED LOGO, BACK (HALO) LIT



10" WIDE SCHOOL MASCOT, PAINTED ALUMINUM, 3/8" THICK



24" FUTURA FONT, STAINLESS STEEL, BOTTOM STRAP MOUNT



1/8" THICK PRECISION CUT ALUM. MECHANICALLY MOUNTED TO TWO 15' X 5' PERFORATED ALUM. PANELS HELD IN PLACE WITH 1/2" STAINLESS STEEL BOLTS & COMPRESSION SPRINGS



ALUMINUM LOGO WITH 12" REVERSE CHANNEL LETTER, BACK (HALO) LIT



6" ALUMINUM SEAL WITH 3" RETURN AND PRECISION CUT ALUMINUM LETTERS



30" LETTERS, FABRICATED ALUMINUM, 3" THICK



24" PAINTED PRECISION CUT ALUMINUM LETTERS, 1/4" THICK

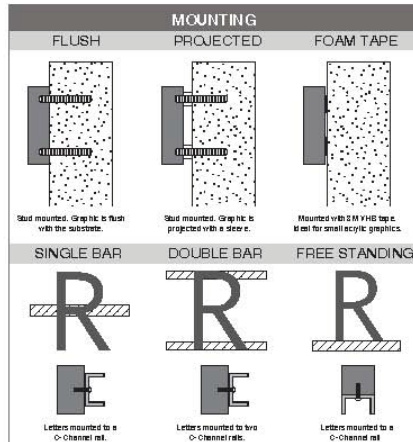
GENERAL CONSIDERATIONS/OPTIONS

SIZE	
MINIMUM HEIGHT AVAILABLE	
Acrylic:	1/2" Metal: 1" Cast Metal: 2"
DEPTH OPTIONS	
Precision Cut Metal and Acrylic: 1/16" 1/8" 3/16" 1/4" 3/8" 1/2"	
Cast Metal: Options are determined by letter style	
<small>Size options depend on material availability.</small>	

FINISHES	
Acrylic	Clear or Painted Color
Aluminum	Brush Satin, Polished or Painted Color
Bronze	Brush Satin, Polished or Patina
Brass	Brush Satin or Polished
<small>Grain can be requested as vertical or horizontal</small>	

COLORS					
<small>Crimson Red</small>	<small>Jasper Yellow</small>	<small>Bard Green Teal</small>	<small>Lilac Purple</small>	<small>Terra Sand Beige</small>	<small>Brushed Aluminum</small>
<small>Burgundy Red</small>	<small>Lemon Yellow</small>	<small>Sage Green</small>	<small>Deep Purple</small>	<small>Cool Gray</small>	<small>Tuscan Gold</small>
<small>Bright Orange</small>	<small>Forest Green</small>	<small>Electric Blue</small>	<small>Burgundy Brown</small>	<small>Natural White</small>	<small>Dark Bronze</small>
<small>Salmon</small>	<small>Spring Green</small>	<small>Electrical Blue</small>	<small>Cobalt Teal</small>	<small>Axeite Black</small>	<small>TM Copper</small>
<small>Colors shown above are representations and not meant for exact matches. Any standard Matthews Acrylic Polyurethane (MAP) colors are available. Custom colors can also be matched. Satin finish is standard.</small>					

POPULAR FONTS		
Century	Bembo	ZapfHumnst
*Garamond	Perpetua	*COPPERPLATE
Georgia	*Arial	*Avant Garde
*Goudy	*Futura	*Optima
Rockwell	Folio	<i>Brush Script</i>
*Times	*Helvetica	<i>Microslab</i>
Palatino	*Eurostile	<i>Gothic Two</i>
Baskerville	Verdana	*Gill Sans
Universe 65	Corbel	Gill Sans Condensed
<small>*Indicates fonts available in cast patterns.</small>		
<small>CCSW can produce virtually any font as well as custom typefaces.</small>		
<small>Some fonts may need to be manipulated to be machinable.</small>		



LIGHTING
FACE-LIT
<small>Face-lit letters are available with a cut-out face and translucent acrylic insert.</small>
BACK (HALO) LIT
<small>Back-lit letters are available with clear or light diffused LEXAN backs.</small>

LETTER VISIBILITY CHART		
Height	Max. Impact	Max. Readability
3"	30'	100'
6"	60'	200'
9"	90'	400'
12"	120'	525'
15"	150'	630'
18"	180'	750'
24"	240'	1000'
30"	300'	1250'
42"	420'	1750'

HOW TO ORDER:
SPECIFY
<small>MATERIAL, FONT, SIZE, DEPTH, COLOR, FINISH, MOUNTING AND NUMBER OF SETS</small>
SUBMITTING ARTWORK
<small>Submit artwork as a vector graphic file. Convert all text to outlines or curves.</small>



Bottom Stud Installation Letters drilled and tapped from bottom. Customer provides own bar or channel for mounting. \$10.00 per letter. Letters with round bottoms (ie. O,S,G etc) have a flattened base to receive studs. Exterior applications greater than 8" letters require tiebacks. Minimum letter thickness: 3/8".

How to Install:

- Verify all boxes and letters have been delivered before the installation.
- Check installation template (mounting pattern) before the installation.
- Center and level then tape template on mounting surface.
- Drill 1/4" holes 3 inches deep where indicated on the template.
- Remove Template, then Blow all debris from holes after drilling.
- Insert the studs into the stud holes on the back of each letter.
- Apply silicone to the studs. Push studded letters into drilled holes.
- Make sure number on back of letter matches positioning on template.
- Use top quality materials (silicone, tape, etc.).

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