HISTORIC AND DESIGN REVIEW COMMISSION

June 20, 2018

HDRC CASE NO: 2018-277

ADDRESS: 928 W COMMERCE ST

LEGAL DESCRIPTION: NCB 265 BLK 84 LOT 26 COMMERCE ST PROJECT

ZONING: D, HS CITY COUNCIL DIST.: 5

DISTRICT: Cattleman Square Historic District

LANDMARK: Grand Central Hotel

APPLICANT: Kim Ginther/Hardman Signs

OWNER: Bexar County

TYPE OF WORK: Signage

APPLICATION RECEIVED: May 31, 2018 **60-DAY REVIEW:** July 30, 2018

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to:

- 1. Install two (2), single faced wall signs to feature an overall length of twelve (12) feet and an overall height of three (3) feet for a total square footage of thirty-six (36) square feet. The proposed signage is to feature aluminum cabinets and faces with acrylic, push through lettering. The proposed signage is to feature internal illumination. These signs are referred to as EX.1 in the application documents.
- 2. Install two (2), single faced wall signs to feature an overall length of twenty (20) feet and an overall height of five (50) feet for a total square footage of 100 square feet. The proposed signage is to feature aluminum cabinets and faces with acrylic, push through lettering. The proposed signage is to feature internal illumination. These signs are referred to as EX.2 in the application documents.
- 3. Install two (2), single faced wall signs to feature an overall length of 5' 13/8 inches and an overall height of 1' 1''. The proposed signage is to feature brushed aluminum letters. These signs are referred to as EX. 3 in the application documents.

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 6, Guidelines for Signage

1. General

A. GENERAL

- *i. Number and size*—Each building will be allowed one major and two minor signs. Total requested signage should not exceed 50 square feet.
- *ii.* New signs—Select the type of sign to be used based on evidence of historic signs or sign attachment parts along the building storefront where possible. Design signs to respect and respond to the character and/or period of the area in which they are being placed. Signs should identify the tenant without creating visual clutter or distracting from building features and historic districts.
- *iii.* Scale—Design signage to be in proportion to the facade, respecting the building's size, scale and mass, height, and rhythms and sizes of window and door openings. Scale signage (in terms of its height and width) to be subordinate to the overall building composition.

B. HISTORIC SIGNS

- *i. Preservation*—Preserve historic signs, such as ghost signs or other signs characteristic of the building's or district's period of significance, whenever possible.
- ii. Maintenance—Repair historic signs and replace historic parts in-kind when deteriorated beyond repair.

C. PLACEMENT AND INSTALLATION

i. Location—Place signs where historically located and reuse sign attachment parts where they exist. Do not erect signs above the cornice line or uppermost portion of a facade wall, or where they will disfigure or conceal architectural details,

window openings, doors, or other significant details.

- *ii. Obstruction of historic features*—Avoid obscuring historic building features such as cornices, gables, porches, balconies, or other decorative elements with new signs.
- *iii. Damage*—Avoid irreversible damage caused by installing a sign. For example, mount a sign to the mortar rather than the historic masonry.
- *iv. Pedestrian orientation*—Orient signs toward the sidewalk to maintain the pedestrian oriented nature of the historic districts.

D. DESIGN

- *i. Inappropriate materials*—Do not use plastic, fiberglass, highly reflective materials that will be difficult to read, or other synthetic materials not historically used in the district.
- *ii.* Appropriate materials—Construct signs of durable materials used for signs during the period of the building's construction, such as wood, wrought iron, steel, aluminum, and metal grill work.
- *iii.* Color—Limit the number of colors used on a sign to three. Select a dark background with light lettering to make signs more legible.
- *iv. Typefaces*—Select letter styles and sizes that complement the overall character of the building façade. Avoid hard-to-read or overly intricate styles.

E. LIGHTING

- *i. Lighting sources*—Use only indirect or bare-bulb sources that do not produce glare to illuminate signs. All illumination shall be steady and stationary. Internal illumination should not be used.
- ii. Neon lighting—Incorporate neon lighting as an integral architectural element or artwork appropriate to the site, if used.
- 3. Projecting and Wall-Mounted Signs

A. GENERAL

- *i. Mounting devices*—Construct sign frames and panels that will be used to be attach signs to the wall of a building of wood, metal, or other durable materials appropriate to the building's period of construction.
- *ii. Structural supports*—Utilize sign hooks, expansion bolts, or through bolts with washers on the inside of the wall depending upon the weight and area of the sign, and the condition of the wall to which it is to be attached.
- *iii.* Appropriate usage—Limit the use of projecting and wall-mounted signs to building forms that historically used these types of signs, most typically commercial storefronts. To a lesser degree, these signage types may also be appropriate in areas where residential building forms have been adapted for office or retail uses, if sized accordingly.

B. PROJECTING SIGNS

- *i. Placement*—Mount projecting signs perpendicularly to a building or column while allowing eight feet of overhead clearance above public walkways.
- *ii. Public right-of-way*—Limit the extension of projecting signs from the building facade into the public right-of-way for a maximum distance of eight feet or a distance equal to two-thirds the width of the abutting sidewalk, whichever distance is greater.
- iii. Area-Projecting signs should be scaled appropriately in response to the building façade and number of tenants.

C. WALL-MOUNTED SIGNS

i. Area—Limit the aggregate area of all wall-mounted signs to twenty-five percent of a building facade.

FINDINGS:

- a. The historic, three story brick structure located at 928 W Commerce was constructed circa 1900 as the Grand Central Hotel. In 2015, the Historic and Design Review Commission issued final approval for rehabilitation and new construction on site as well as the demolition of a one story, historic structure. At this time, the applicant has proposed building signage to be located on a site wall as well as on each façade.
- b. SIGNAGE The Historic Design Guidelines, Guidelines for Signage notes that each building will be allowed one major and two minor signs to total no more than fifty (50) square feet. Additional square footage and signage may be approved by the Historic and Design Review Commission.
- c. WALL SIGNS (EX. 1) The applicant has proposed to install two (2), single faced wall signs to feature an

overall length of twelve (12) feet and an overall height of three (3) feet for a total square footage of thirty-six (36) square feet. The proposed signage is to feature aluminum cabinets and faces with acrylic, push through lettering. The proposed signage is to feature internal illumination. These signs are referred to as EX.1 in the application documents. These proposed signs will face north and west and be located sixteen (16) feet above grade. While the proposed square footage of both signs combined is 72 square feet, staff finds the proposed signage to feature an appropriate scale for the building. Additionally, the proposed signage's location adjacent to an automobile overpass will limit its visibility and impact on adjacent properties.

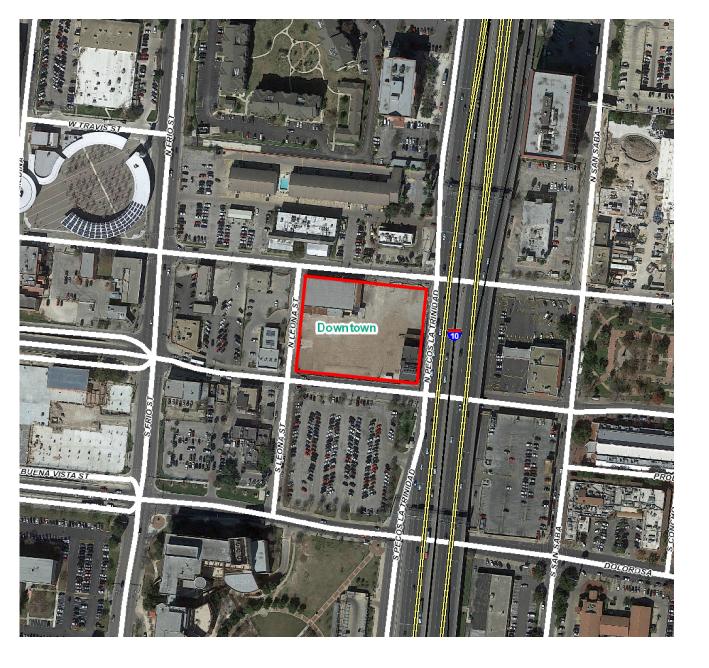
- 4. WALL SIGNS (EX. 2) On the east and south façade, the applicant has proposed to install two (2), single faced wall signs to feature an overall length of twenty (20) feet and an overall height of five (5) feet for a total square footage of 100 square feet. The proposed signage is to feature aluminum cabinets and faces with acrylic, push through lettering. The proposed signage is to feature internal illumination. These signs are referred to as EX.2 in the application documents. The proposed total square footage of both sings combined is 200 square feet. The proposed signs will be located 47' 8" inches above grade. While the proposed signage exceed the amount recommended by the Guidelines for Signage, staff finds the proposed installation to be appropriate.
- d. WALL SIGNS (EX. 3) At the street level on a site wall, the applicant has proposed to install two (2), single faced wall signs to feature an overall length of 5' 1 3/8 inches and an overall height of 1' 1". The proposed signage is to feature brushed aluminum letters. These signs are referred to as EX. 3 in the application documents. The total square footage requested is approximately ten (10) square feet. Staff finds this signage to be appropriate.
- e. ILLUMINATION The applicant has proposed for signs EX.1 and EX.2 to be internally illuminated. The proposed signage cabinets will feature aluminum faces resulting in illumination for only acrylic letters and logos. The applicant has provided night time renderings for reference. Staff finds the proposed illumination method to be appropriate.

RECOMMENDATION:

Staff recommends approval as submitted based on findings a through e.

CASE MANAGER:

Edward Hall





Flex Viewer

Powered by ArcGIS Server

Printed:Jun 08, 2018

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May 30, 2018

Office of historic Preservation 1901 S. Alamo Street San Antonio, TX 78204

Hardman Signs and The Center for Health Care Services are proposing signage at the property address: 928 W. Commerce St.
San Antonio, TX 78207

Please review the drawings attached for the proposed signs and for further details of design and location of signage. These include (4) illuminated cabinet signs to be installed on (4) different elevations. To provide maximum visibility on the (2) Larger cabinets the additional height and size are needed due to the height of the building. Please take into consideration that visibility is key for our development and to allow for maximum visibility for emergency vehicles, pedestrians and motorists.

Please let me know if you have any questions.

Sincerely

Kim Ginther

Permit Expeditor | Hardman Signs



permitting@hardmansigns.com

Corporate Office: 713.957.2324

Toll Free: 1.866.549.1498

Fax: 713.957.2116

9980 Bammel North Houston

Houston, TX 77086

www.hardmansigns.com



CLIENT



PROJECT

THE CENTER FOR HEALTH CARE SERVICES SAN ANTONIO, TEXAS

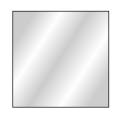
CREATED: 2-28-2018 | PROJECT NUMBER: 2180385



REP: SHANNON LINE | DESIGNER: STEVE SIMS

PALETTE/MATERIALS

PAINT COLORS:





BRUSHED ALUMINUM MP41342SP



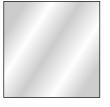
P2

STANDARD CARBON BLACK N929SP

MATERIALS:



VINYL COLORS:

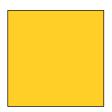




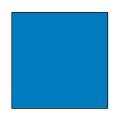
BRUSHED ALUMINUM



ORACAL 8800 009 MIDDLE GREEN



V2 ORACAL 8800 021 YELLOW



V3

ORACAL 8800 052 AZURE BLUE

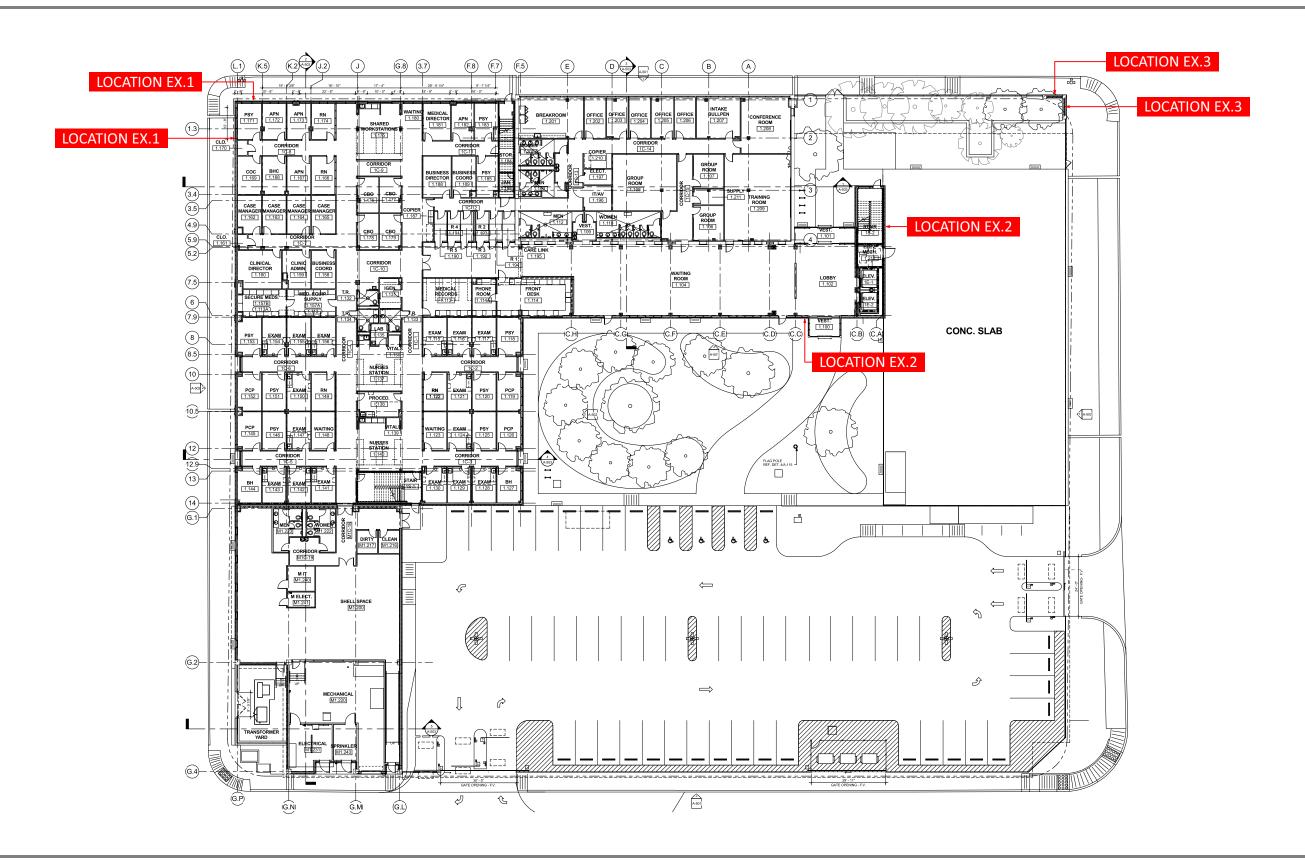
TYPEFACES

TREBUCHET:

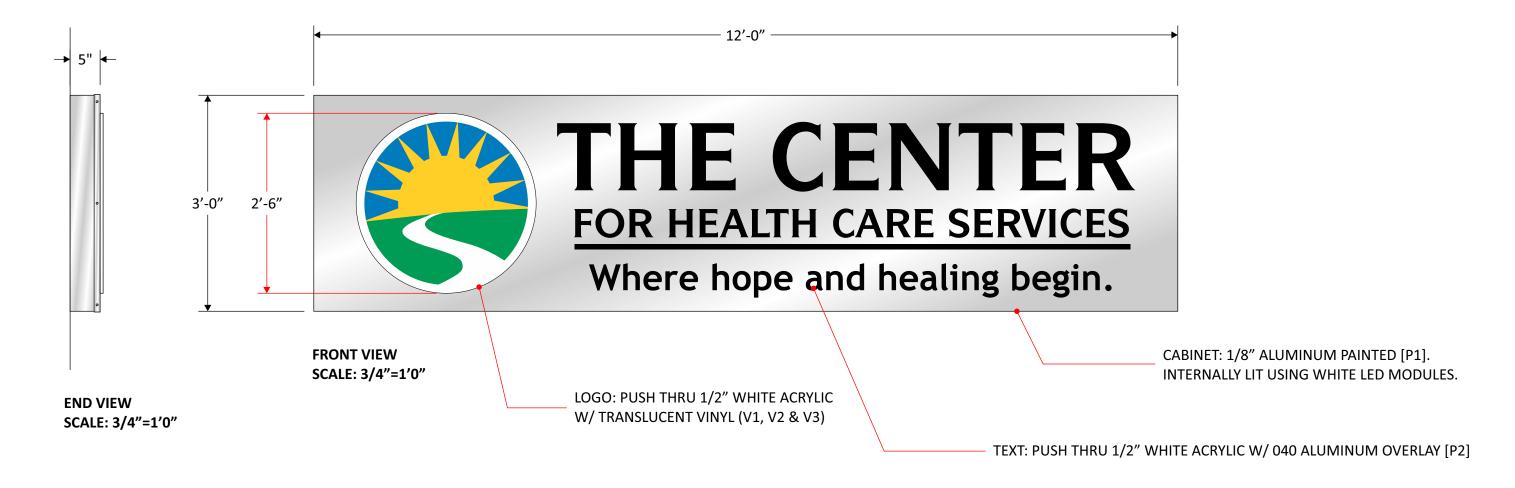
ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890!@#\$%^&*()

PROJECT FILENAME: CENTER FOR HEALTH CARE SERVICES 2180385

REV. DATE: 4/20/2018

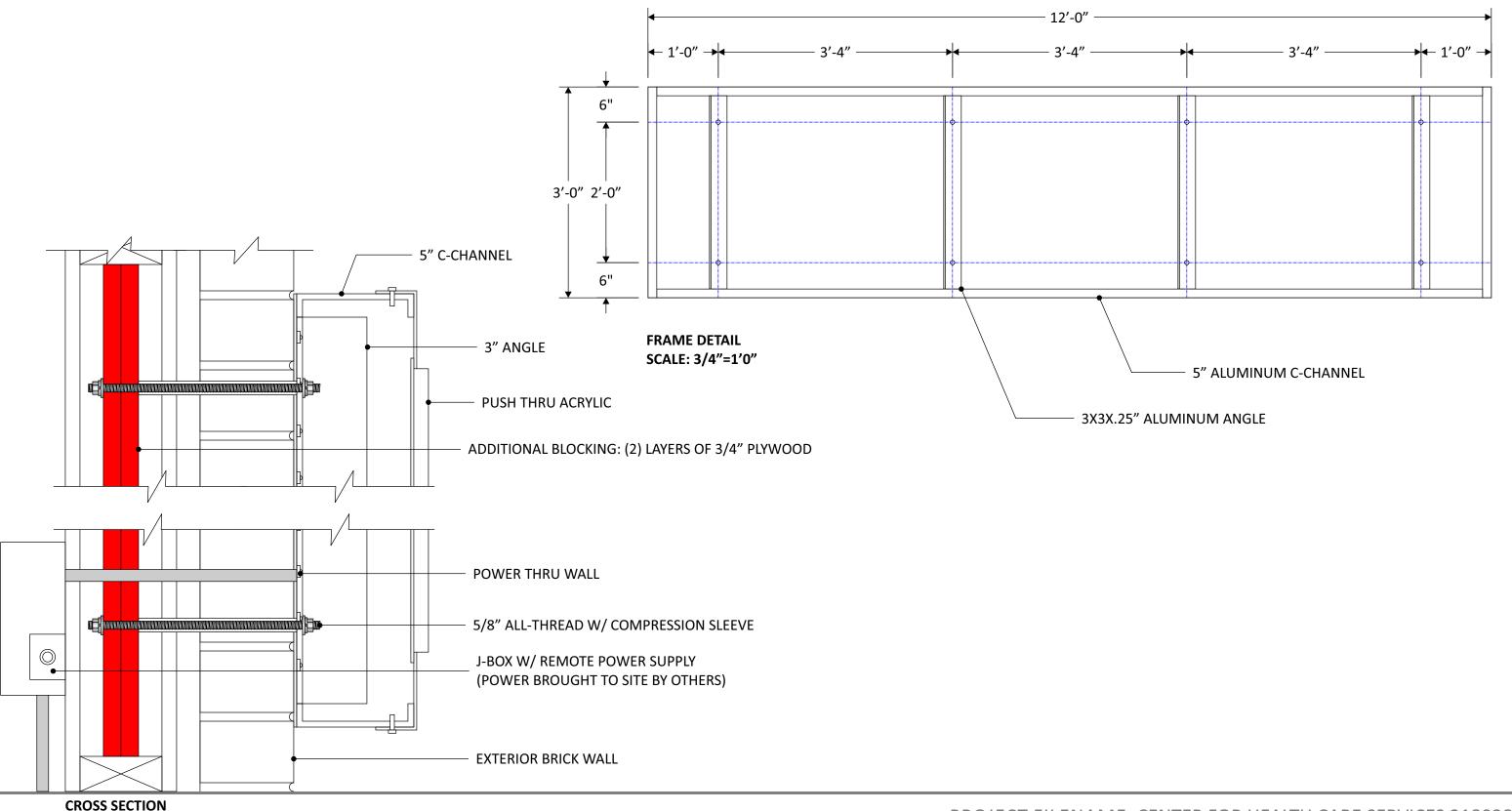


QTY. 2 SINGLE FACE





FABRICATION DETAILS



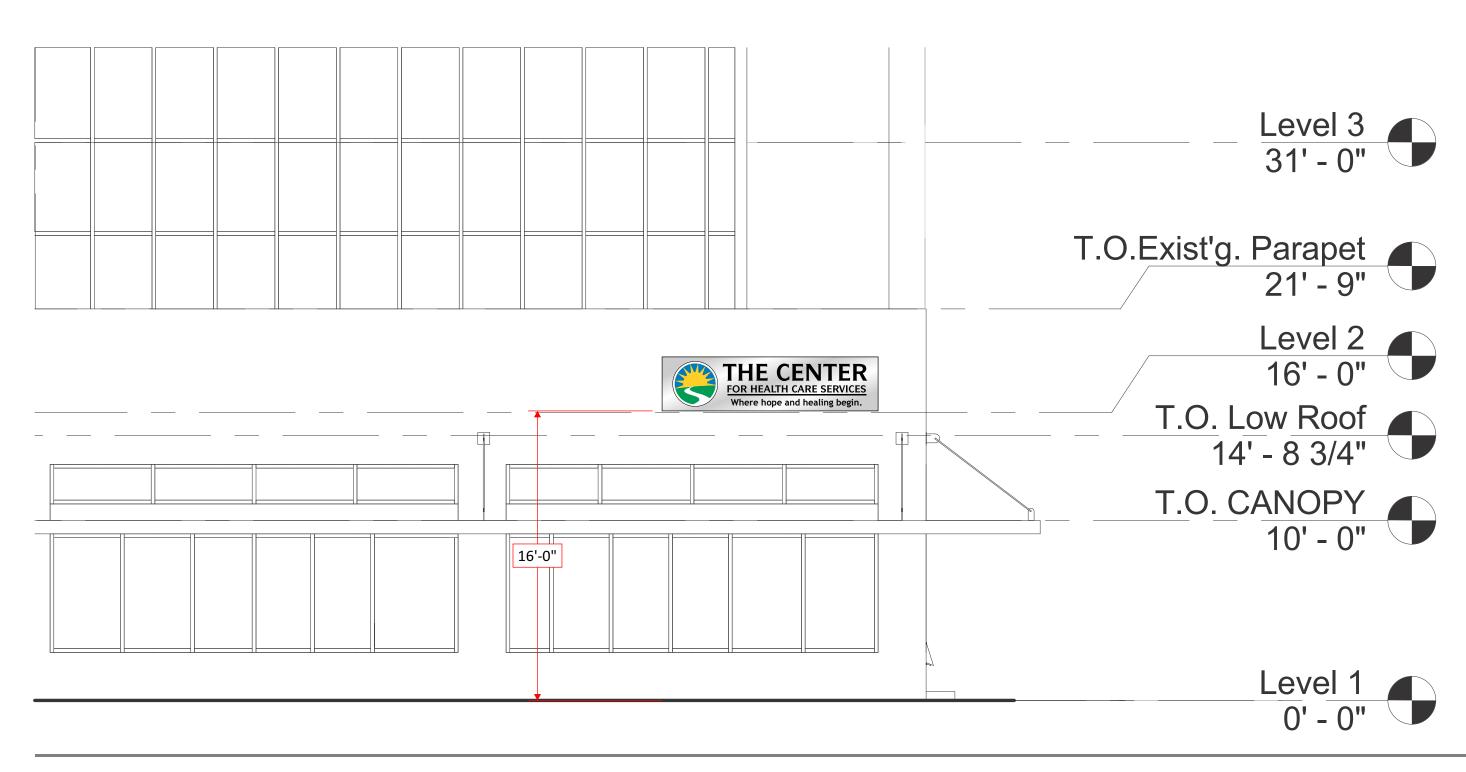
REV. DATE: 4/20/2018

SCALE: 3"=1'0"

SIGN TYPE: EX.1 | MAIN IDENTITY SIGN

PARTIAL NORTH ELEVATION

DRAWING SCALE: 3/16"=1'0"



SIGN TYPE: EX.1 | MAIN IDENTITY SIGN

CORNER ELEVATION

DRAWING SCALE: N.T.S.



LOAD: 2.2A VOLT: 120V. HARDMAN SIGNS MUST BE NOTIFIED OF OTHER VOLTAGES PRIOR TO MANUFACTURE. A DEDICATED CIRCUIT CONSISTING OF PRIMARY,

NEUTRAL AND GROUND CONDUCTORS ARE TO BE PROVIDED BY CUSTOMER.

	rdman ECTURAL SIGNAG	_
E4	96516	
V	А	HZ
DATE:		
Suitable fo	r wet loc	ations.

		TITLE	
	S.F	F. CABINET - 32943	
DATE 4-19-2018	DRAWI	N BY: MATTHEW	
SIGN HEIGHT 36" X 144"		SIGN DEPTH 5"	FACE MATERIAL ALUMINUM / ACRYLIC

(2) 60W



109

NOTE: SPACE ROWS @ 9" O.C. MAX MODS PER SERIES: 40 80 MODULES PER 60W PS

AMP DRAW: 2.2A

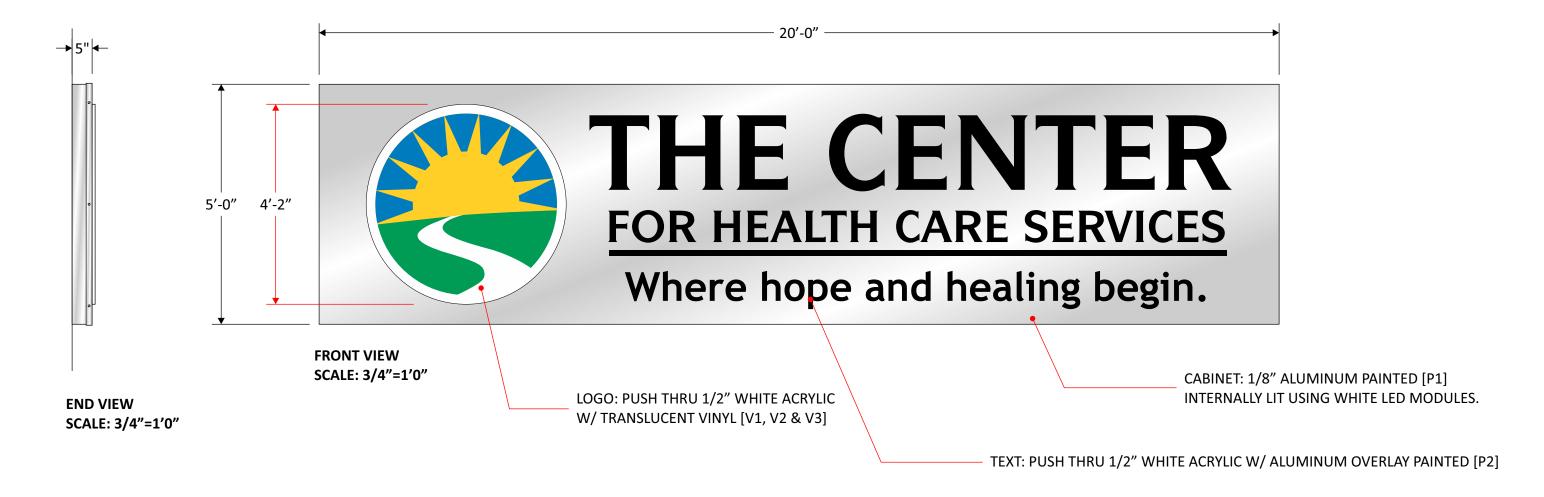
ESTIMATED PRODUCT PER SIGN FACE LIT

(109) TRUE WHITE STREET FIGHTER MIDDLE WEIGHT MODULES (PL-OP2-MW2-P-TW) 49FT TRUE WHITE STREET FIGHTER MIDDLEWEIGHT (2) 60W POWER SUPPLIES (PL-60-12-U)

CAUTION: THIS LAYOUT IS ONLY AN ESTIMATE.

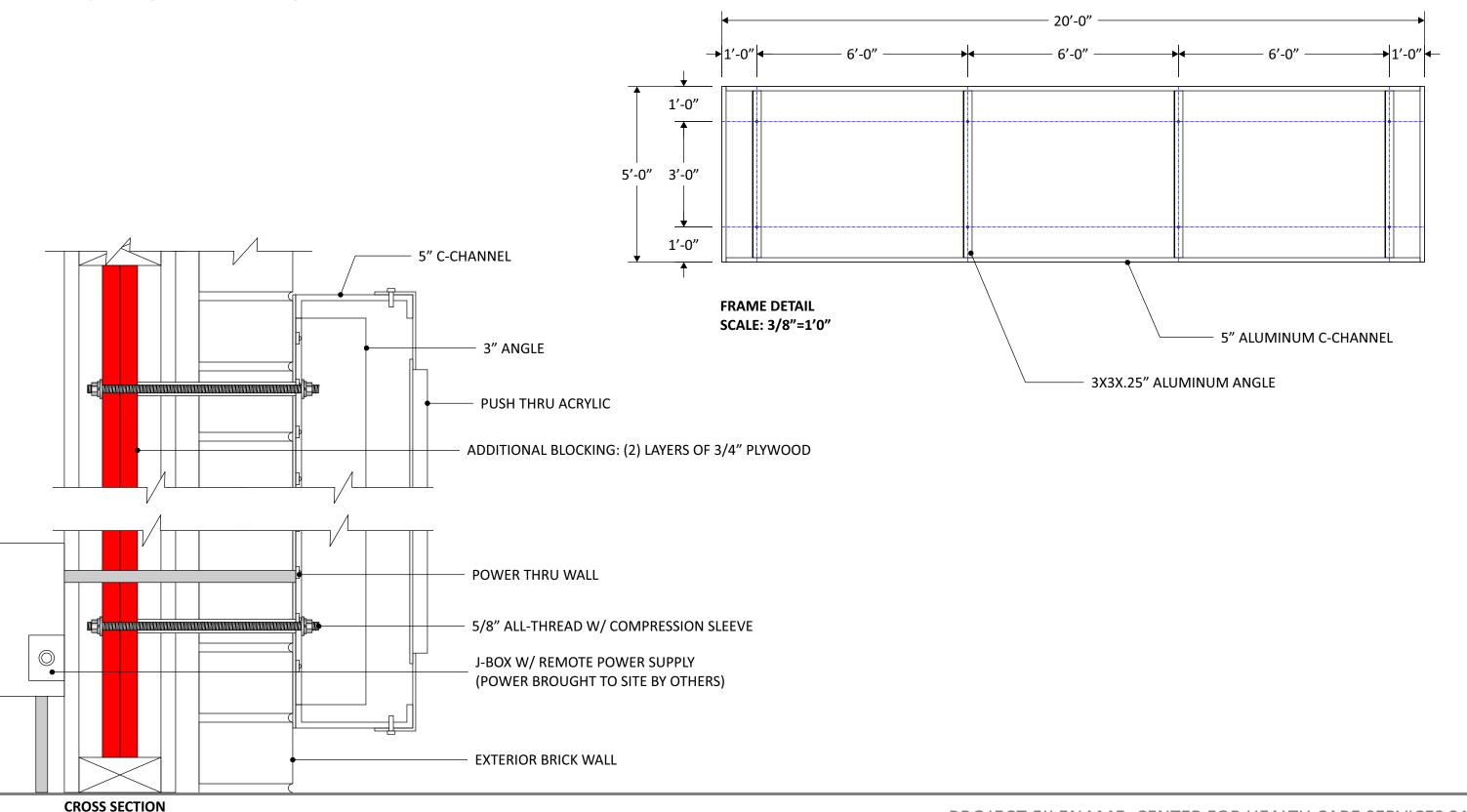
Channel letter depth, face color, material, and thickness can vary which may effect the number of modules required. To ensure accuracy, it is recommended that you test light in a darkened environment prior to installing or shipping to the site to ensure the light output is commercially acceptable. Final material estimates are the responsibility of the sign manufacturer.

QTY. 2 SINGLE FACE





FABRICATION DETAILS



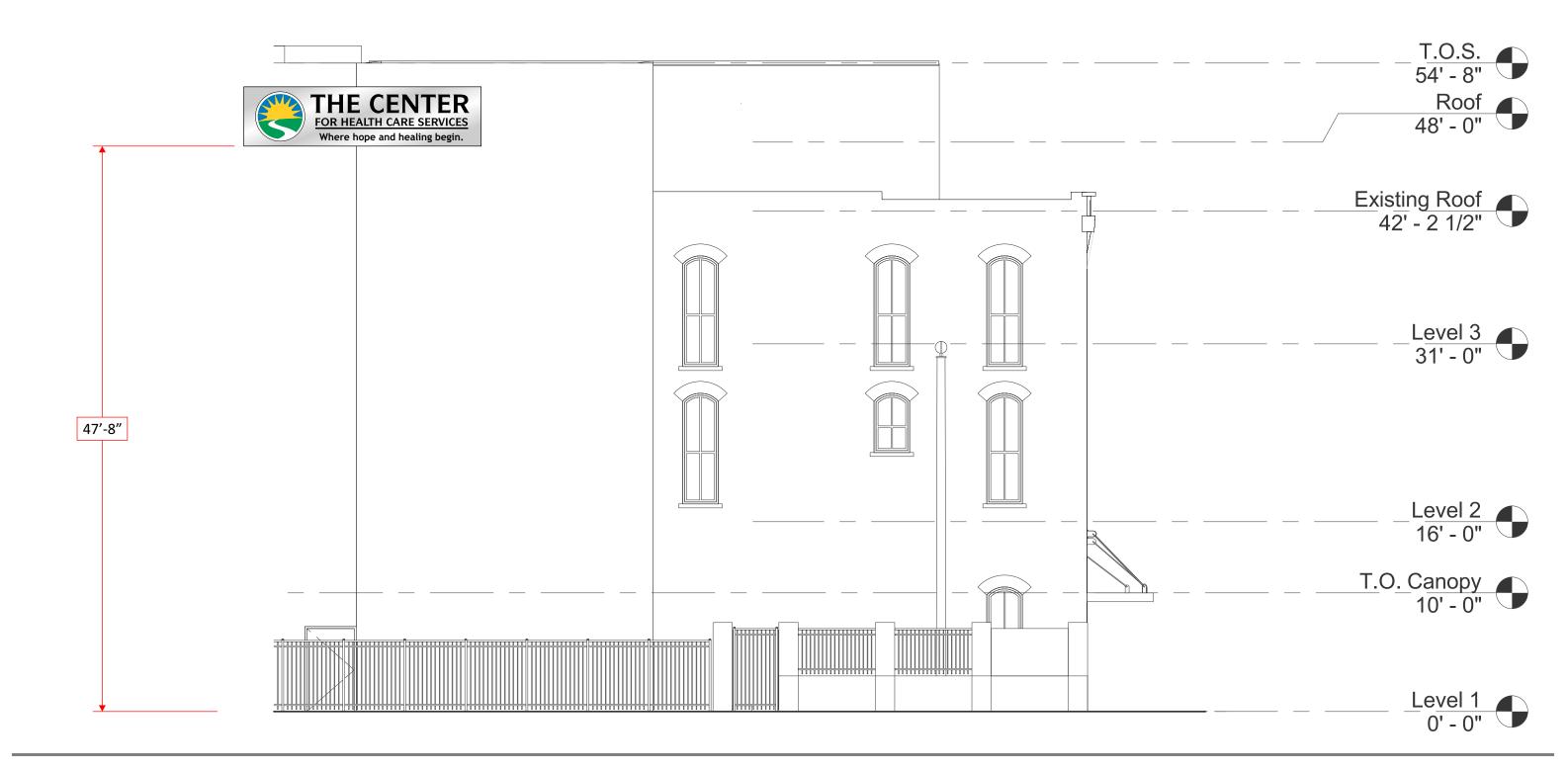
REV. DATE: 4/20/2018

SCALE: 3"=1'0"

SIGN TYPE: EX.2 | MAIN IDENTITY SIGN

PARTIAL EAST ELEVATION

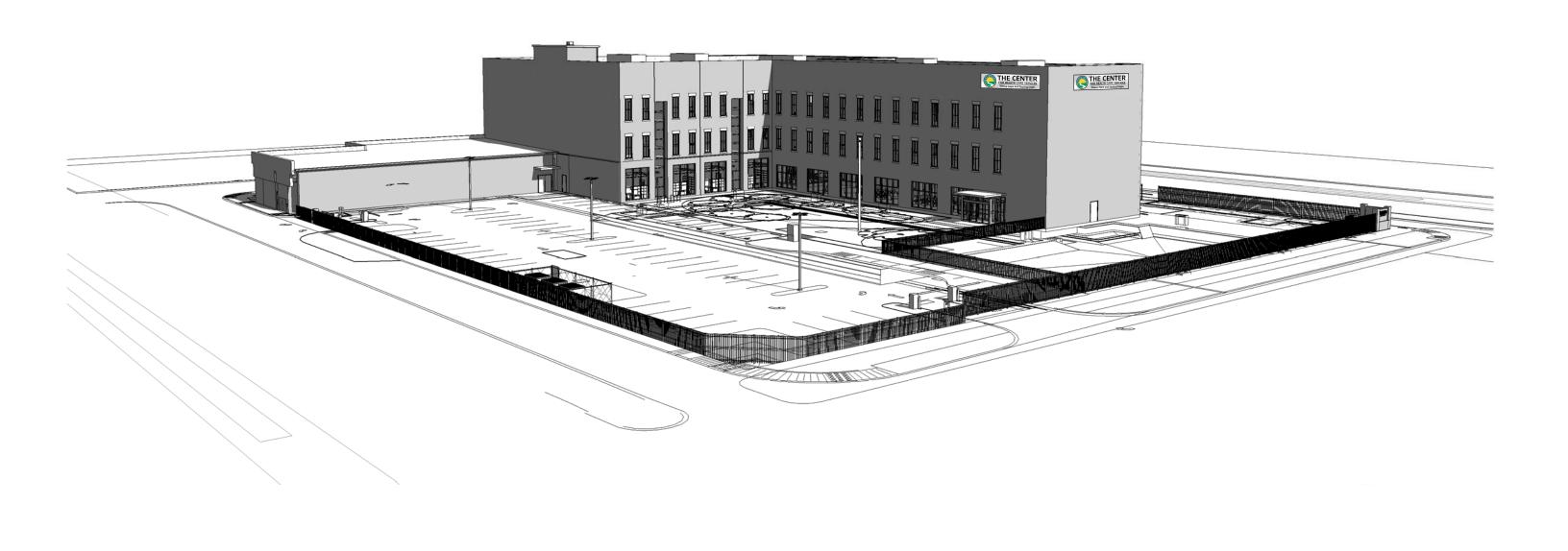
DRAWING SCALE: 1/8"=1'0"



SIGN TYPE: EX.2 | MAIN IDENTITY SIGN

CORNER ELEVATION

DRAWING SCALE: N.T.S.



VOLT: 120V. LOAD: 3.3A

HARDMAN SIGNS MUST BE NOTIFIED OF OTHER VOLTAGES PRIOR TO MANUFACTURE. A DEDICATED CIRCUIT CONSISTING OF PRIMARY,

NEUTRAL AND GROUND CONDUCTORS ARE TO BE PROVIDED BY CUSTOMER.

	an Signs SIGNAGE & GRAPHICS
E4965	16
VA DATE:	HZ
Suitable for wet	locations.

		TITLE	
	S.F	F. CABINET - 32943	
DATE 4-19-2018	DRAW	N BY: MATTHEW	
SIGN HEIGHT 60" X 240"		SIGN DEPTH 5"	FACE MATERIAL ALUMINUM / ACRYLIC

(3) 60W



232

NOTE: SPACE ROWS @ 10" O.C. MAX MODS PER SERIES: 40 80 MODULES PER 60W PS

AMP DRAW: 3.3A

ESTIMATED PRODUCT PER SIGN FACE LIT

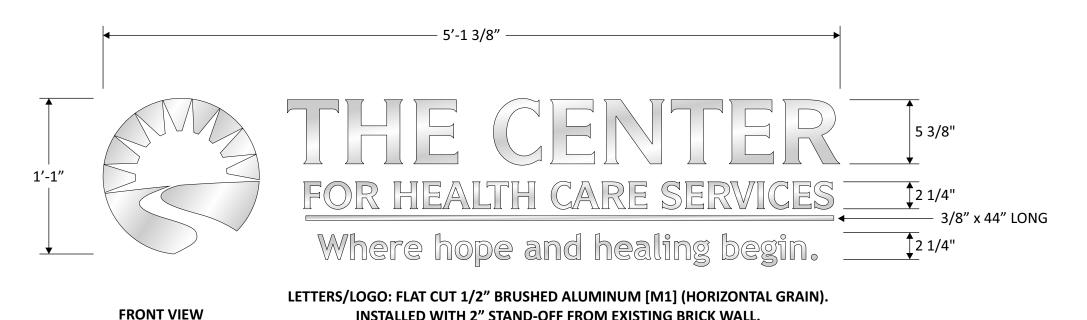
(232) TRUE WHITE STREET FIGHTER MIDDLE WEIGHT MODULES (PL-OP2-MW2-P-TW) 104FT TRUE WHITE STREET FIGHTER MIDDLEWEIGHT (3) 60W POWER SUPPLIES (PL-60-12-U)

CAUTION: THIS LAYOUT IS ONLY AN ESTIMATE.

Channel letter depth, face color, material, and thickness can vary which may effect the number of modules required. To ensure accuracy, it is recommended that you test light in a darkened environment prior to installing or shipping to the site to ensure the light output is commercially acceptable. Final material estimates are the responsibility of the sign manufacturer.

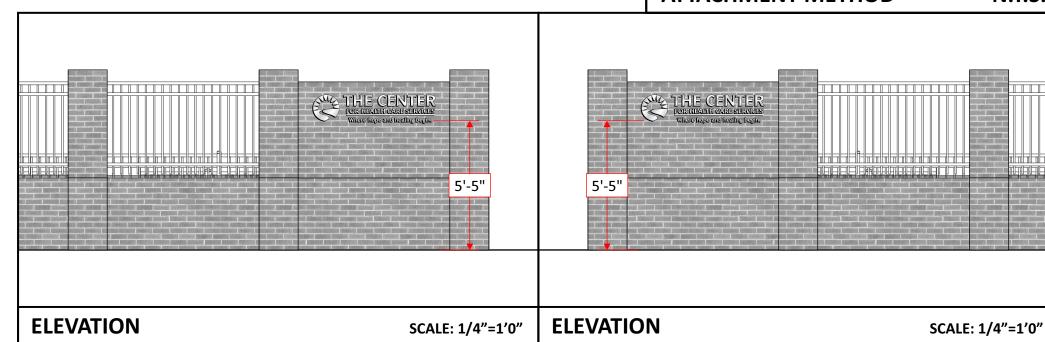
QTY. 2 SETS OF LETTERS/LOGOS

SCALE: 1.5"=1'0"

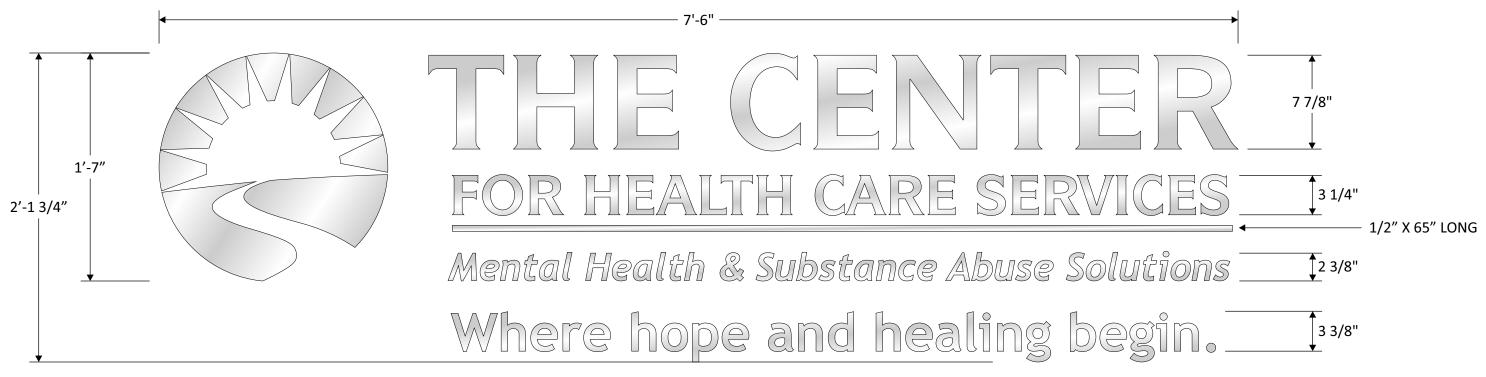


INSTALLED WITH 2" STAND-OFF FROM EXISTING BRICK WALL.

LETTER FACE **SPACER ALL-THREAD** HOLE W/ EPOXY **BRICK WALL ATTACHMENT METHOD** N.T.S.

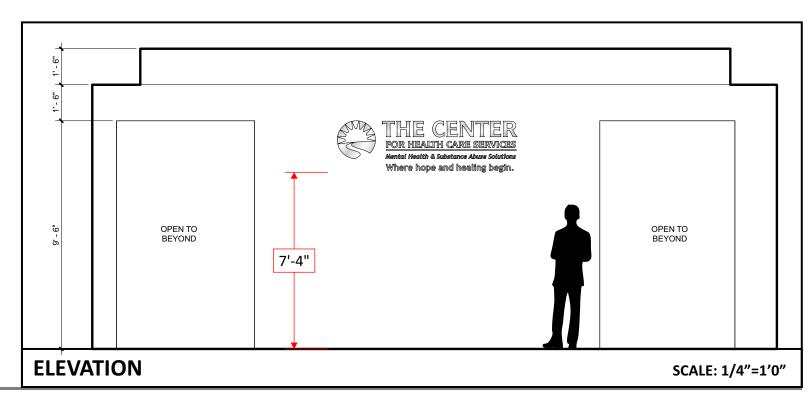


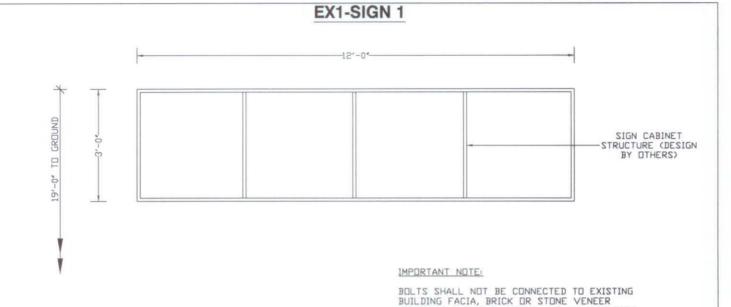
QTY. 1 SET OF LETTERS/LOGOS



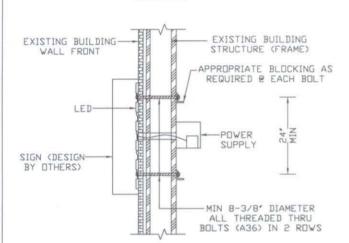
FRONT VIEW SCALE: 1.5"=1'0"

LETTERS/LOGO: FLAT CUT 1/2" ACRYLIC PAINTED [P1]
INSTALLED FLUSH TO INTERIOR WALL W/ VHB TAPE AND SILICONE





SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
Area	36.00	1	25	900	1350
				900	1350
Bolt Tensi	on = 1350 x 1	2 x 1.5 (SF) / 4	(bolts/side) x	24 in (spo	;) = 203
Bolt Area	(required) > 20	03 / 36000 = 0.0	1 sq in		
Try 3/8 in	Diameter Bolt	s; A = 0.11 sq i	n ; C = 1.17 i	n	

(EXISTING BUILDING FACADE) AT ANY LOCATION.

NOTES:

DESIGN IS BASED ON 2015 IBC - WIND SPEED OF 115 MPH (3-SEC GUST), EXPOSURE C.
THIS DESIGN IS INTENDED TO BE INSTALLED AT THE ADDRESS SHOWN AND SHALL NOT BE USED AT ANY OTHER

LOCATIONS UNLESS CERTIFIED BY A PROFESSIONAL ENGINEER.
ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT AND SHALL ONLY BE RESPONSIBLE FOR THE DESIGN OF SIGN STRUCTURE FOR WHICH CALCULATIONS ARE SHOWN ON THIS PAGE. (SIGN CABINET STRUCTURE DESIGN SHALL BE PROVIDED BY OTHERS).

ALL HSS TUBE SECTIONS SHALL MEET ASTM A500 GRADE-B WITH MINIMUM YIELD STRESS Fy=46 KSI.

ALL OTHER STEEL INCLUDING CONNECTION PLATES, ANGLES, ETC. SHALL MEET ASTM A36 WITH MINIMUM YIELD STRESS Fy=36 KSI.

ALL ALLMINUM USED SHALL BE GRADE 6053 DR 6061 DR EQUIVALENT WITH MINIMUM YIELD STRESS FY=20 KSI. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED AND SHALL BE GALVANIZED.

WELDING SHALL BE MADE WITH E70xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS

IN ACCORDANCE WITH AWS STANDARDS. ALL ALUMINUM WELDING SHALL BE 9 BE MADE WITH E40xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED

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SIZE, LENGTH AND NUMBER OF BOLTS ARE MINIMUM RECOMMENDED AND SHALL BE INCREASED DEPENDING ON FIELD CONDITIONS TO SECURE SIGN FIRMLY ONTO EXISTING BUILDING STRUCTURE.

BOLTS SHALL BE CONNECTED TO EXISTING BUILDING STRUCTURE (FRAME) AT ALL LOCATIONS.

EXISTING BUILDING STRUCTURE INFORMATION NOT PROVIDED BY SIGN CONTRACTOR.

ANALYSIS OF EXISTING BUILDING STRUCTURE TO SUPPORT PROPOSED LOADS NOT IN SCOPE OF SMB ENGINEERING, 10

LC AND DESIGN ENGINEER AND HENCE NOT PERFORMED AND PROVIDED

SMB ENGINEERING, LLC AND DESIGN ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DAMAGE CAUSED TO EXISTING BUILDING DUE TO ADDITION OF PROPOSED LOADS.

ENGINEERING, LLC

WWW.SMBENGNEERING.NET TEL: 832-443-7328 TEXAS REGISTRATION NUMBER | F-10116

HARDMAN SIGNS

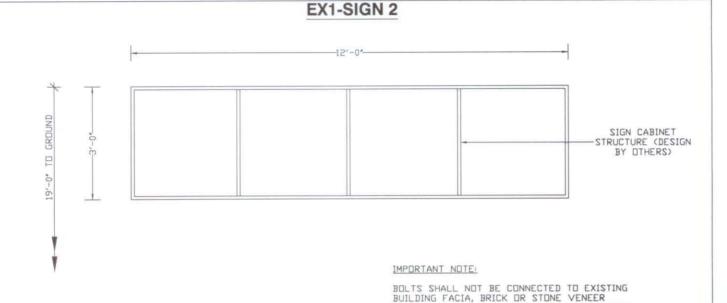
4913 WEEPING WILLOW, HOUSTON, TX

THE CENTER FOR HEALTH CARE SERVICES

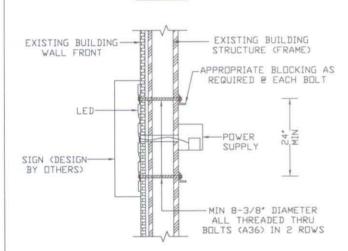
928 W. COMMERCE STREET, SAN ANTONIO, TX



SCALE : NTS DRAWN BY : HMN DATE : APR 2018 PROJECT: 18-508A REV: 0 PAGE : 1 OF 1



SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
Area	36.00	1	25	900	1350
				900	1350
		2 x 1.5 (SF) / 4		24 in (spo	;) = 203
		03 / 36000 = 0.0			
Try 3/8 in	Diameter Bolt	s ; A = 0.11 sq	n; C = 1.17 i	n	

(EXISTING BUILDING FACADE) AT ANY LOCATION.

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ALL OTHER STEEL INCLUDING CONNECTION PLATES, ANGLES, ETC. SHALL MEET ASTM A36 WITH MINIMUM YIELD 5

STRESS Fy=36 KSI.
ALL ALUMINUM USED SHALL BE GRADE 6053 DR 6061 DR EQUIVALENT WITH MINIMUM YIELD STRESS Fy=20 KSI.
STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED AND SHALL BE GALVANIZED.

8

STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED AND SHALL BE GALVANIZED.

ALL STEEL WELDING SHALL BE MADE WITH E70xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS STANDARDS.

ALL ALUMINUM WELDING SHALL BE MADE WITH E40xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE AWS STANDARDS.

SIZE, LENGTH AND NUMBER OF BOLTS ARE MINIMUM RECOMMENDED AND SHALL BE INCREASED DEPENDING ON FIELD CONDITIONS TO SECURE SIGN FIRMLY ONTO EXISTING BUILDING STRUCTURE.

BOLTS SHALL BE CONNECTED TO EXISTING BUILDING STRUCTURE (FRAME) AT ALL LOCATIONS.

EXISTING BUILDING STRUCTURE INFORMATION NOT PROVIDED BY SIGN CONTRACTOR.

ANALYSIS OF EXISTING BUILDING STRUCTURE TO SUPPORT PROPOSED LOADS NOT IN SCOPE OF SMB ENGINEERING, LICAND DESIGN, MIGHER AND HENCE NOT PERFORMED AND PROVIDED.

13. LLC AND DESIGN ENGINEER AND HENCE NOT PERFORMED AND PROVIDED.

SMB ENGINEERING, LLC AND DESIGN ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DAMAGE CAUSED TO EXISTING BUILDING DUE TO ADDITION OF PROPOSED LOADS.

TETAS OF HUZEFA M. NULWALA PRO 9669 STIGNAL 30/18

ENGINEERING, LLC

WWW.SMBENGNEERING.NET TEL: 832-443-7328

TEXAS REGISTRATION NUMBER | F-10116

HARDMAN SIGNS

4913 WEEPING WILLOW. HOUSTON, TX

THE CENTER FOR **HEALTH CARE** SERVICES

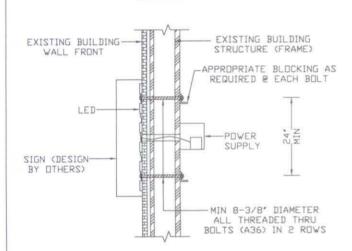
928 W. COMMERCE STREET, SAN ANTONIO, TX

SCALE : NTS
DRAWN BY : HMN
DATE APR 2018
PROJECT : 18-508B
REV: 0
PAGE 1 OF 1

-12'-0" SIGN CABINET STRUCTURE (DESIGN BY OTHERS) å IMPORTANT NOTE:

EX2-SIGN 1

SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
Area	36.00	1	30	1080	1620
				1080	1620
		2 x 1.5 (SF) / 4		24 in (spo	;) = 243
Bolt Area	(required) > 24	43 / 36000 = 0.0	1 sq in		
Try 3/8 in	Diameter Bolt	s; A = 0.11 sq i	n ; C = 1.17 i	n	

BOLTS SHALL NOT BE CONNECTED TO EXISTING BUILDING FACIA, BRICK OR STONE VENEER (EXISTING BUILDING FACADE) AT ANY LOCATION.

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STRESS Fy=36 KSI.
ALL ALUMINUM USED SHALL BE GRADE 6053 DR 6061 DR EQUIVALENT WITH MINIMUM YIELD STRESS Fy=20 KSI.
STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED AND SHALL BE GALVANIZED.

ALL STEEL WELDING SHALL BE MADE WITH E70xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS STANDARDS. 8

ALL ALUMINUM WELDING SHALL BE MADE WITH E40xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE AWS STANDARDS.

SIZE, LENGTH AND NUMBER OF BOLTS ARE MINIMUM RECOMMENDED AND SHALL BE INCREASED DEPENDING ON FIELD CONDITIONS TO SECURE SIGN FIRMLY ONTO EXISTING BUILDING STRUCTURE.

BOLTS SHALL BE CONNECTED TO EXISTING BUILDING STRUCTURE (FRAME) AT ALL LOCATIONS.

13.

BULIS SMALL BE CUNNECTED TO EXISTING BUILDING STRUCTURE (FRAME) AT ALL LOCATIONS.
EXISTING BUILDING STRUCTURE INFORMATION NOT PROVIDED BY SIGN CONTRACTOR.
ANALYSIS OF EXISTING BUILDING STRUCTURE TO SUPPORT POPOSED LOADS NOT IN SCOPE OF SMB ENGINEERING,
LLC AND DESIGN ENGINEER AND HENCE NOT PERFORMED AND PROVIDED.
SMB ENGINEERING, LLC AND DESIGN ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DAMAGE CAUSED TO EXISTING
BUILDING DUE TO ADDITION OF PROPOSED LOADS.

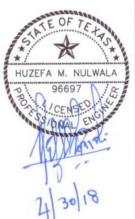
ENGINEERING, LLC

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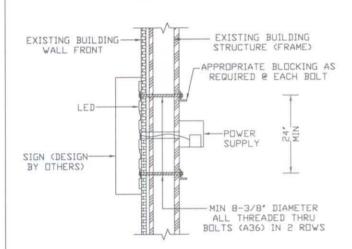
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EX2-SIGN 2 -12'-0"-GROUND SIGN CABINET STRUCTURE (DESIGN BY OTHERS) æ IMPORTANT NOTE BOLTS SHALL NOT BE CONNECTED TO EXISTING

SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
	The state of the s	onape ractor			1620
Area	36.00	1	30	1080	
				1080	1620
		2 x 1.5 (SF) / 4 43 / 36000 = 0.0		24 in (spo	;) = 243
		s ; A = 0.11 sq i		n	

BUILDING FACIA, BRICK OR STONE VENEER (EXISTING BUILDING FACADE) AT ANY LOCATION.

NOTES:

DESIGN IS BASED ON 2015 IBC - WIND SPEED OF 115 MPH (3-SEC GUST), EXPOSURE C.
THIS DESIGN IS INTENDED TO BE INSTALLED AT THE ADDRESS SHOWN AND SHALL NOT BE USED AT ANY OTHER
LOCATIONS UNLESS CERTIFIED BY A PROFESSIONAL ENGINEER.
ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT AND SHALL ONLY BE RESPONSIBLE FOR ENGINEER IS NOT DESIGN OF SIGN STRUCTURE FOR WHICH CALCULATIONS ARE SHOWN ON THIS PAGE. (SIGN CABINET STRUCTURE DESIGN SHALL BE PROVIDED BY OTHERS).

ALL HSS TUBE SECTIONS SHALL MEET ASTM A500 GRADE-B WITH MINIMUM YIELD STRESS FY=46 KSI.
ALL OTHER STEEL INCLUDING CONNECTION PLATES, ANGLES, ETC. SHALL MEET ASTM A36 WITH MINIMUM YIELD

ALL ALUMINUM USED SHALL BE GRADE 6053 DR 6061 DR EQUIVALENT WITH MINIMUM YIELD STRESS Fy=20 KSI. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS OTHERWISE NOTED AND SHALL BE GALVANIZED.

9

STRUCTURAL BOLTS SHALL CONFORM TO ASTM A325 UNLESS DTHERWISE NOTED AND SHALL BE GALVANIZED.

ALL STEEL WELDING SHALL BE MADE WITH E70xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS
IN ACCORDANCE WITH AWS STANDARDS.

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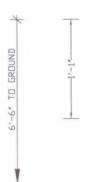
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EX3-SIGN 1

5'-134"



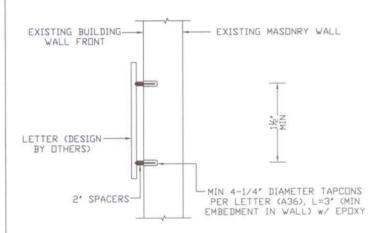


Where hope and healing begin.

IMPORTANT NOTE:

BOLTS SHALL NOT BE CONNECTED TO EXISTING BUILDING FACIA, BRICK OR STONE VENEER (EXISTING BUILDING FACADE) AT ANY LOCATION.

SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
Area	1.00	1	25	25	12.5
				25	12.5
		2 x 1.5 (SF) / 2 (5 / 36000 = 0.01		1.5 in (sp) = 75
		s ; A = 0.04 sq		in	
Bolt Lengt	h (required) >	12 x d = 12 x 0	25 = 3 in		

NOTES

DESIGN IS BASED ON 2015 IBC - WIND SPEED OF 115 MPH (3-SEC GUST), EXPOSURE C.
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THE DESIGN OF SIGN STRUCTURE FOR WHICH CALCULATIONS ARE SHOWN ON THIS PAGE. (LETTER STRUCTURE DESIGN SHALL BE PROVIDED BY OTHERS).

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OF HUZEFA M. NULWALA 96697

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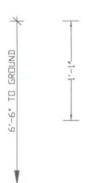
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SCALE	: NTS
DRAWN	BY : HMN
DATE :	APR 2018
PROJEC	T : 18-510A

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EX3-SIGN 2

-5'-1%"-



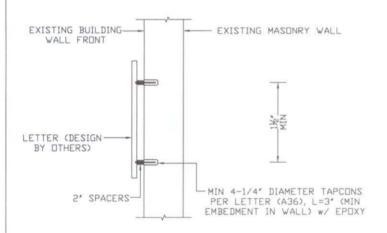


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SECTION



Section	Area (sq ft)	Shape Factor	Wind (psf)	Force	Moment
Area	1.00	1	25	25	12.5
				25	12.5
		2 x 1.5 (SF) / 2 (5 / 36000 = 0.01		1.5 in (spo	c) = 75
Try 1/4 in	Diameter Bolt	s ; A = 0.04 sq	n; C = 0.78 i	in	
Dolt Longi	h (required) >	$12 \times d = 12 \times 0$	25 = 3 in		

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STRESS Fy=36 KSI

ALL ALUMINUM USED SHALL BE GRADE 6053 DR 6061 DR EQUIVALENT WITH MINIMUM YIELD STRESS FY=20 KSI. Structural Bolts shall conform to astm a325 unless otherwise noted and shall be galvanized.

8 ALL STEEL WELDING SHALL BE MADE WITH E70xx ELECTRODES AND SHALL BE PERFORMED BY CERTIFIED WELDERS

9.

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