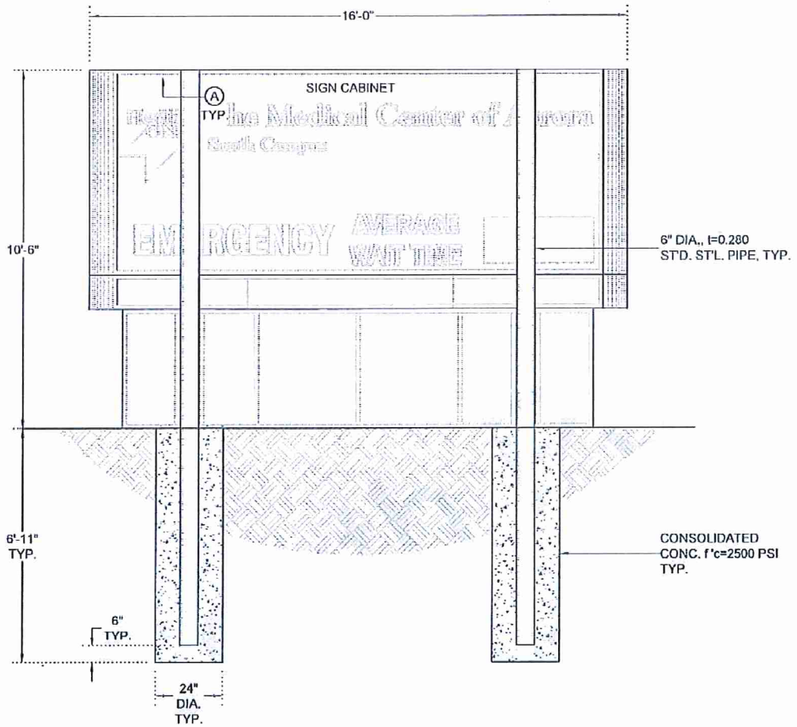
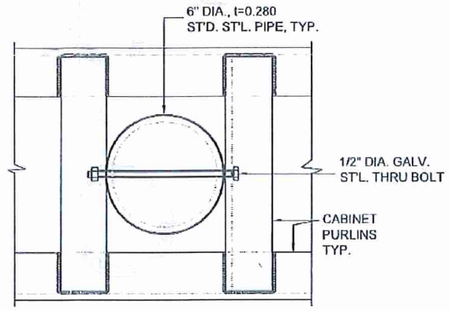


ELEVATION
N.T.S.



A CONNECTION
(4 PLACES) N.T.S.

Sign Design Based on 2015 IBC

1185673

Job # JTS_42617
Project Medical Center Of Auroroa - Monument
Job Location 1501 South Potomac Street
Aurora, CO

INPUT DATA

Exposure category (B, C or D)		=	C	
Risk Category		=	II	
Basic wind speed (3 sec. gust wind)	V	=	115	mph
Topographic factor	K_{zt}	=	1	Flat
Height of the sign	h	=	10.50	ft
Vertical dimension (for wall, s = h)	s	=	10.50	ft
Horizontal dimension	B	=	16.00	ft
Dimension of return corner	L_r	=	1.42	ft

ANALYSIS

Velocity pressure

$q_h = 0.00256\ K_h K_{zt} K_d V^2$ = 24.46 psf

where:

q_h = velocity pressure at height h. (Eq.29.3-1, page 307)

K_h = velocity pressure exposure coefficient = 0.85
evaluated at height above ground level, h (Tab. 29.3-1, page 310)

K_d = wind directionality factor. (Tab. 26.6-1, page 250) = 0.85

Wind Force Case A: resultant force though the geometric center (Sec. 29.4.1 & Fig. 29.4-1)

Max horizontal wind pressure = $p = q_h G C_f$ = 29.604 psf

where: G = gust effect factor. (Sec. 26.9, page 254) = 0.85

C_f = net force coefficient. (Fig. 29.4-1, page 311) = 1.42

A_s = B s = the gross area = 168.0 ft²

DESIGN SUMMARY

Allowable Stress Design Wind Factor = 0.6

Design Wind Pressure =	0.6 x p =	17.76	psf
Design Windforce, F =	17.76 x As =	2.984	kips
	Moment Arm =	5.250	ft
Design Moment = F x moment arm =		15.666	kip-ft

Footing Design (Nonconstrained)

Diameter =	2.00 FT
Soil Pressure =	100.00 PSF/FT
S_1 =	461.33 PSF
A =	3.78 FT
EMBED. =	6.92 FT

24 in. Dia. Depth = 6'-11"

Pole Design ST'D. ST'L. PIPE

Sec. Mod. Req'd. USE A53 Grade B

S = 4.48 | 6" DIA., t=0.280 | S= 7.99

COLORADO LICENSED
TODD J. ISAAC
49813
PROFESSIONAL ENGINEER
MAR 22 2017

NOTES :

GENERAL :

- SIGN DESIGN IS BASED ON ADEQUATE EXISTING SUPPORT ELEMENTS.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS.
- COAT ALUMINUM IN CONTACT WITH CONCRETE WITH ZINC RICH PAINT.
- THERE IS NO PROTECTION ZONE AS DEFINED IN AISC 341-10.
- PROVIDE FULLY WELDED END CAPS AT EXPOSED OPEN ENDS OF STEEL / ALUM. TUBES, MATCH THICKNESS LIKE FOR LIKE.
- CABINETS SHALL BE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS

STEEL :

DESIGN AND FABRICATION ACCORDING TO 2015 IBC

- PLATE, ANGLE, CHANNEL TEE, AND WIDE FLANGE: ASTM A36
- ROUND PIPE: ASTM A53 GRADE B OR EQUIVALENT.
- HSS ROUND, SQUARE, AND RECTANGULAR TUBE: ASTM A500 GRADE B OR EQUIVALENT
- ALL ANCHORS BOLTS SHOULD BE: ASTM F1554
- ALL MACHINED BOLTS SHOULD BE: ASTM A307
- BEARING TYPE CONNECTION REINFORCING REBAR: ASTM A615 GRADE 60 DEFORMED BARS

ALUMINUM :

DESIGN AND FABRICATION ACCORDING TO 2015 ALUM. DESIGN MANUAL

- PLATES, ANGLES, CHANNELS, TEE, AND SQUARE TUBING: ALUMINUM ALLOY 6061 - T6 WITH 0.098 LBS PER CUBIC INCH.
- HEX CAP SCREWS AND STUDS: ASTM F468, NUTS: ASTM F467

WELDING :

STEEL

DESIGN AND FABRICATION ACCORDING TO AWS D1.1.

- AWS CERTIFICATION REQUIRED FOR ALL STRUCTURAL WELDERS.
- WELDING PER AISC 341-10
- E70 XX ELECTRODES FOR SMAW PROCESS.
- F70S XX ELECTRODES FOR GMAW PROCESS.
- ER7 XX ELECTRODES FOR GTAW PROCESS.
- F70T XX ELECTRODES FOR FCAW PROCESS.

ALL WELDS SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT ZERO 0° AS DETERMINED BY THE APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MFG'S. CERTIFICATION.

ALUMINUM

ALL WELDING IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS A.5.10. FILLER ALLOYS PER TABLES M.9.1 & M.9.2 OF 2015 ALUMINUM DESIGN MANUAL.

CONCRETE :

DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14

- COMPRESSIVE STRENGTH AT 28 DAYS, f'c=2500 PSI MINIMUM.
- CEMENT TYPE II OR IV, W/C RATIO 0.45 BY WEIGHT FOR PIER AND CAISSON FOOTINGS
- CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH.
- MAINTAIN A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.

www.yjinc.com
P.O. BOX 802050
SANTA CLARITA, CA. 91380
TEL. (661)259-0700 FAX. (661)259-0900

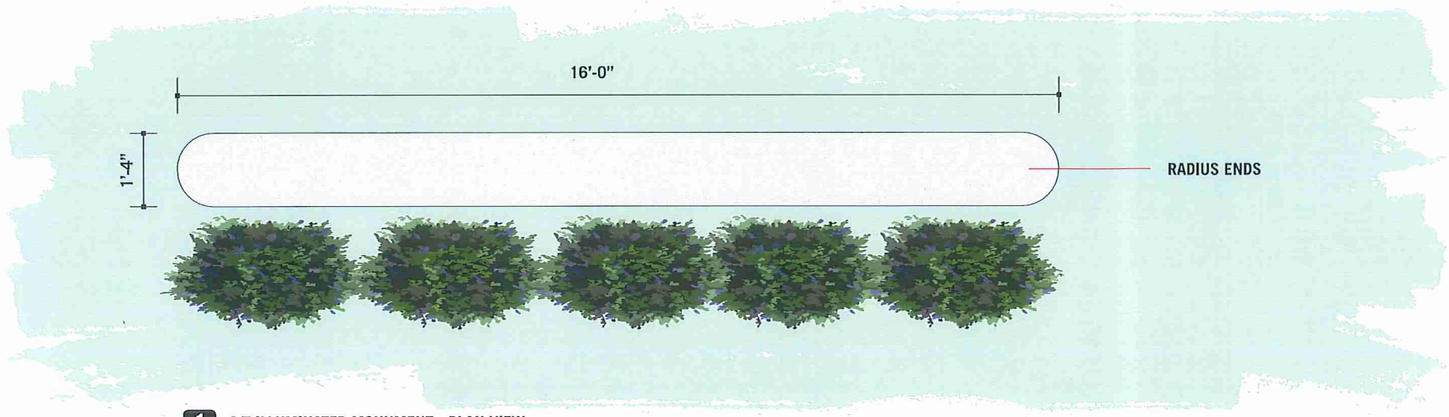
SHEET TITLE:

MEDICAL CENTER OF AURORA MONUMENT

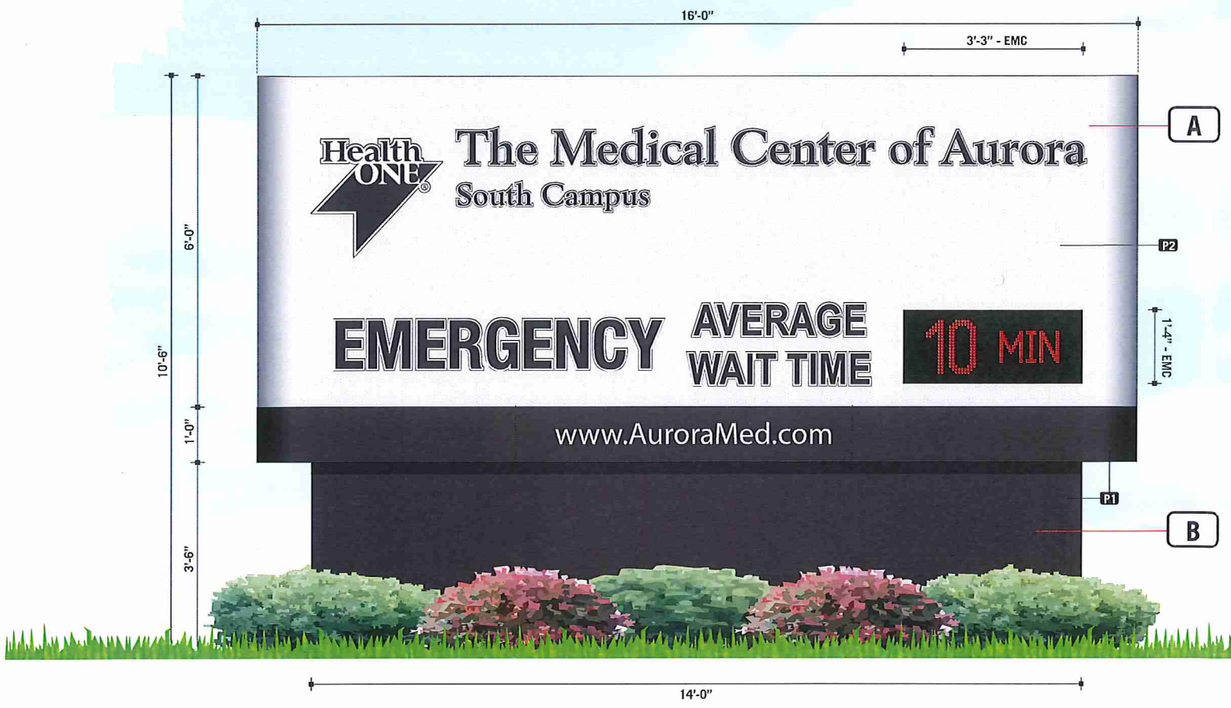
DRN BY: D.G.	REVISION DATE: MAR 13, 2017	PROJECT JOB# : _JTS_ 42617_MEDICAL CENTER OF AURORA_MONUMENT_SOUTH POTOMAC ST_AURORA_CO.dwg	
CHK BY: T.J.	DATE START DATE: MAR 13, 2017	PROJECT LOCATION : MEDICAL CENTER OF AURORA 1501 SOUTH POTOMAC STREET AURORA, CO	SHEET # 1 OF 1
REV BY: T.J.	SCALE: AS SHOWN		

AURORA, CO

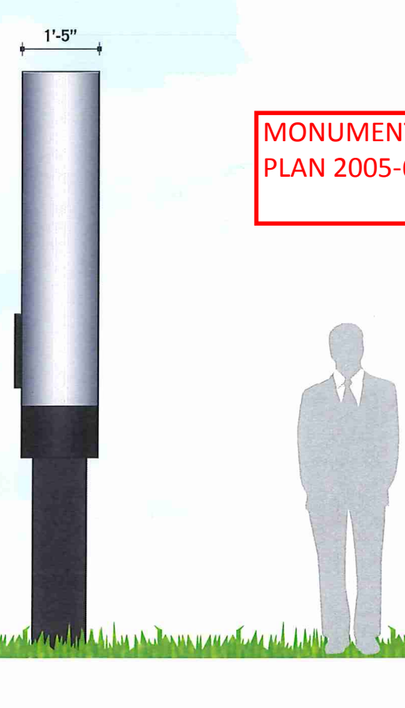
SQ FT: 98.6



1 S/F ILLUMINATED MONUMENT - PLAN VIEW
SCALE: 3/8=1'-0"



2 S/F ILLUMINATED MONUMENT - ELEVATION VIEW
SCALE: 3/8=1'-0"



3 S/F ILLUMINATED MONUMENT - ELEVATION VIEW
SCALE: 3/8=1'-0"

DESCRIPTION

A — S/F ILLUMINATED MONUMENT
- ALUMINUM CABINET PAINTED P1 / P2
- ROUTED ALUM. FACES BACKED WITH WHITE ACRYLIC
- TRANS. VINYL INLAY LEAVING .25" WHITE BORDER
- INTERNALLY ILLUMINATED WITH WHITE LED MODULES
- 1'-4" X 3'-3" MONOCHROME EMC

B — ALUMINUM POLE WRAPPER
- ALUM. POLE WRAPPER PAINTED P1

FINISH SCHEDULE

P1	BM 2130-10 BLACK BEAN SOUP
P2	BM AF-5 FROSTLINE
V1	3M 230-69 DURONADIC

MONUMENT SIGN PER APPROVED SITE PLAN 2005-6051-00

ADVANTAGE SIGN COMPANY

2500 South Raritan, Englewood, CO 80110
(303) 975-1772 (888) 975-1772

Health ONE The Medical Center of Aurora

1501 SOUTH POTOMAC STREET
AURORA, CO 80012

S/F ILLUMINATED MONUMENT

CUSTOMER APPROVAL

NAME: _____

DATE: _____

REV1 02.01.17 TD
REV2 02.09.17 JJ
REV3 03.14.17 JJ
REV4
REV5
REV6
REV7
REV8

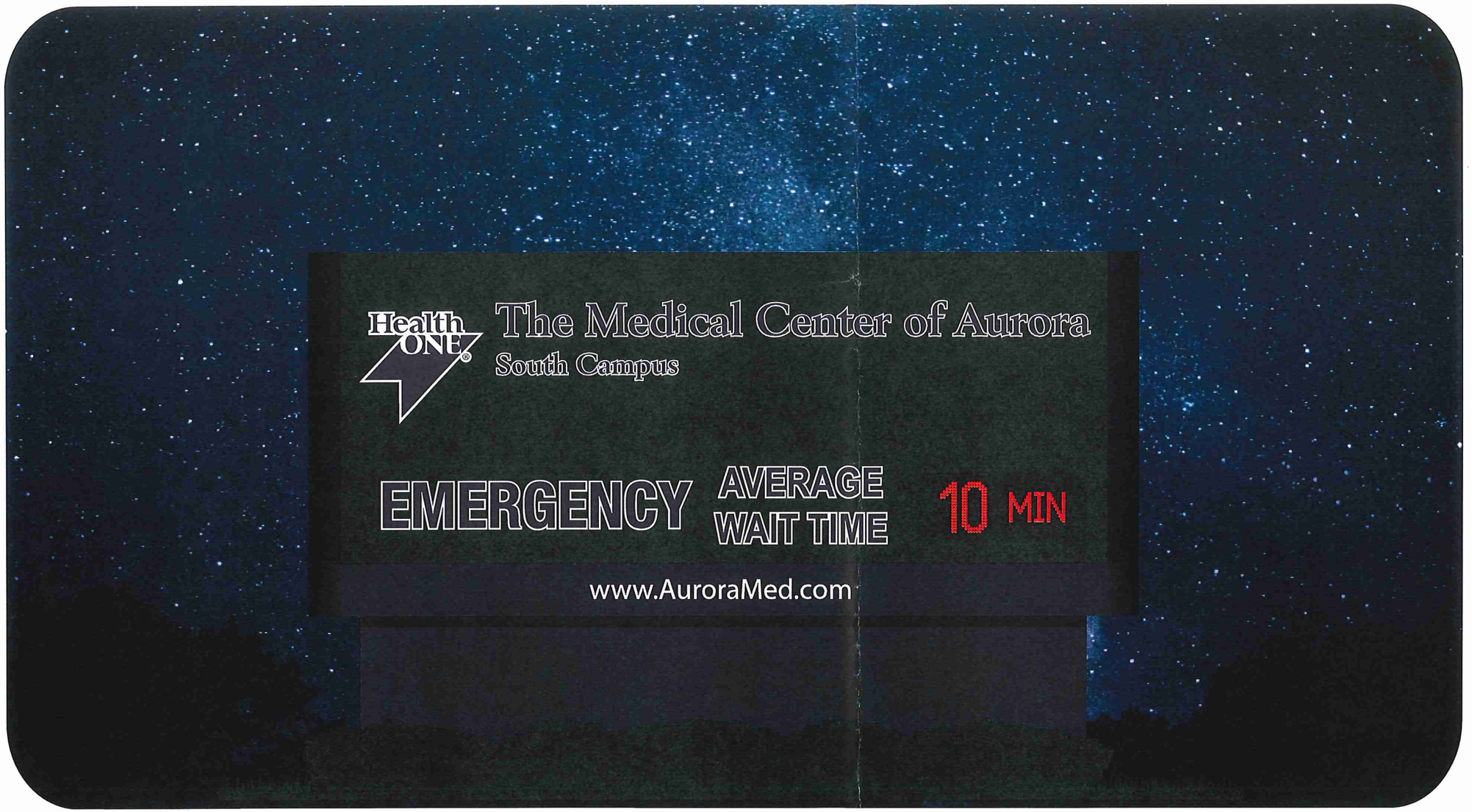
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DESIGN: TD
DATE: 01.05.17
DWG: 10771

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UL LISTED ELECTRIC SIGN

AURORA, CO

SQ FT: 98.6



1 LIGHTING CONDITIONS

SCALE: NTS

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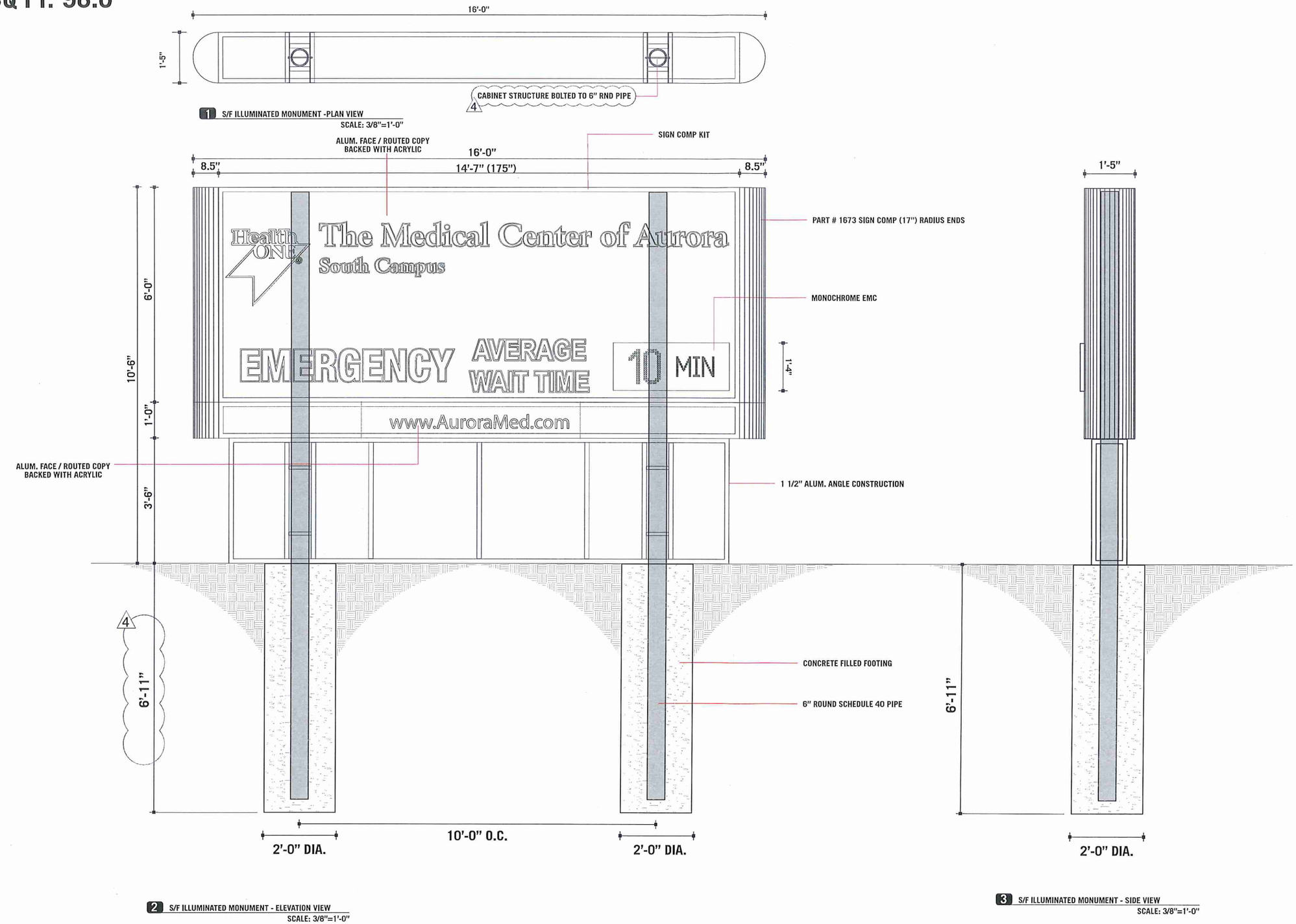
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