

CITY OF BEAUMONT
PLANNING DEPARTMENT
APPROVED
PROJECT/PERMIT: PLAN2023-0912
DESC.: Starbucks Coffee Company Sign Program
Katie Jensen
ASSISTANT PLANNER 03/09/2023 10:19:46

VICINITY MAP
Not To Scale



Drawings are approved for submittal to City/Couny to obtain the sign permit.

Please be advised that Sign Industries, Inc. and their agents are authorized on all matters associated with signage as well as general sign related issues.

Jonathan Hanasab

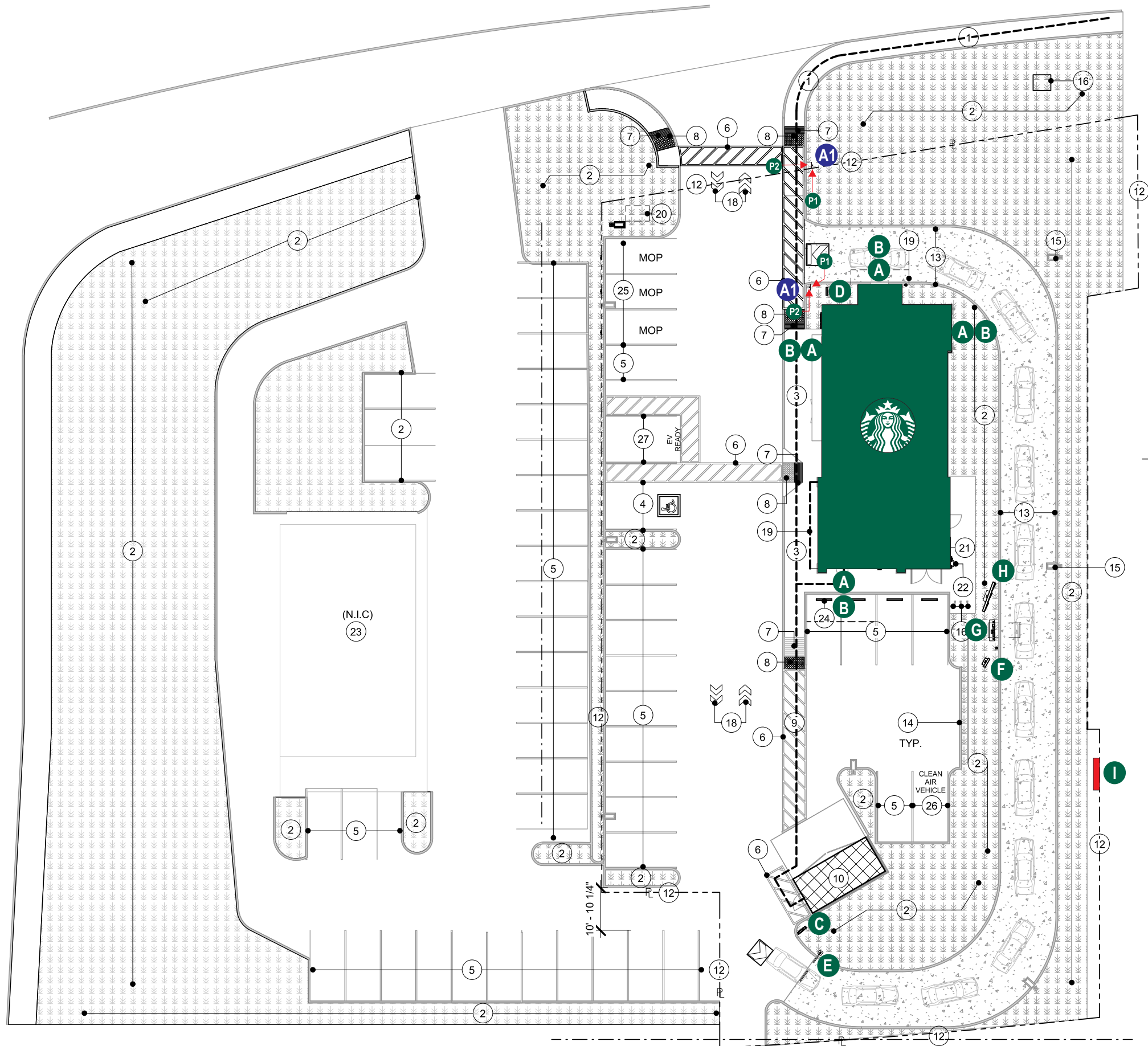
Date: 11/17/2022

Landlord: Orum Capital (Draper 26 LLC)
606 South Olive Street
Los Angeles, CA 90014
Jonathan Hanasab 310-806-1722
jonathan@orumcapital.com



PROJECT: # 92369-001
STORE # 67418
BEAUMONT & I-10
449 E 4TH ST
BEAUMONT, CA 92223





KEY LEGEND

- A** 48" SIREN LOGO DISC
- B** 48" ILLUM. DT W/ RIGHT ARROW
- C** DT ENTRANCE DIRECTIONAL
- D** DT EXIT/THANK YOU DIRECTIONAL
- E** CLEARANCE BAR
- F** PRE MENU BOARD
- G** DIGITAL ORDER SCREEN / CANOPY
- H** DT 5-PANEL MENU SIGN
- I** PYLON SIGN REFACE
- A1** PEDESTRIAN CROSSING and CAUTION VEHICLE CROSSING

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date: 06-30-22
Drawn by: L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts ☐ 277 Volts



2101 Carrillo Privado, Ontario, CA 91761
(909) 930-0303 Fax: (909) 930-0308
E-mail: design@signindustries.tv
Web: www.signindustries.tv

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Drawing No

22-267



Page: SP.1

1

SITE PLAN
SCALE: NTS

KEY LEGEND

A

48" SIREN LOGO DISC

B

48" ILLUM. DT W/ RIGHT ARROW



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Sign Industries

INCORPORATED

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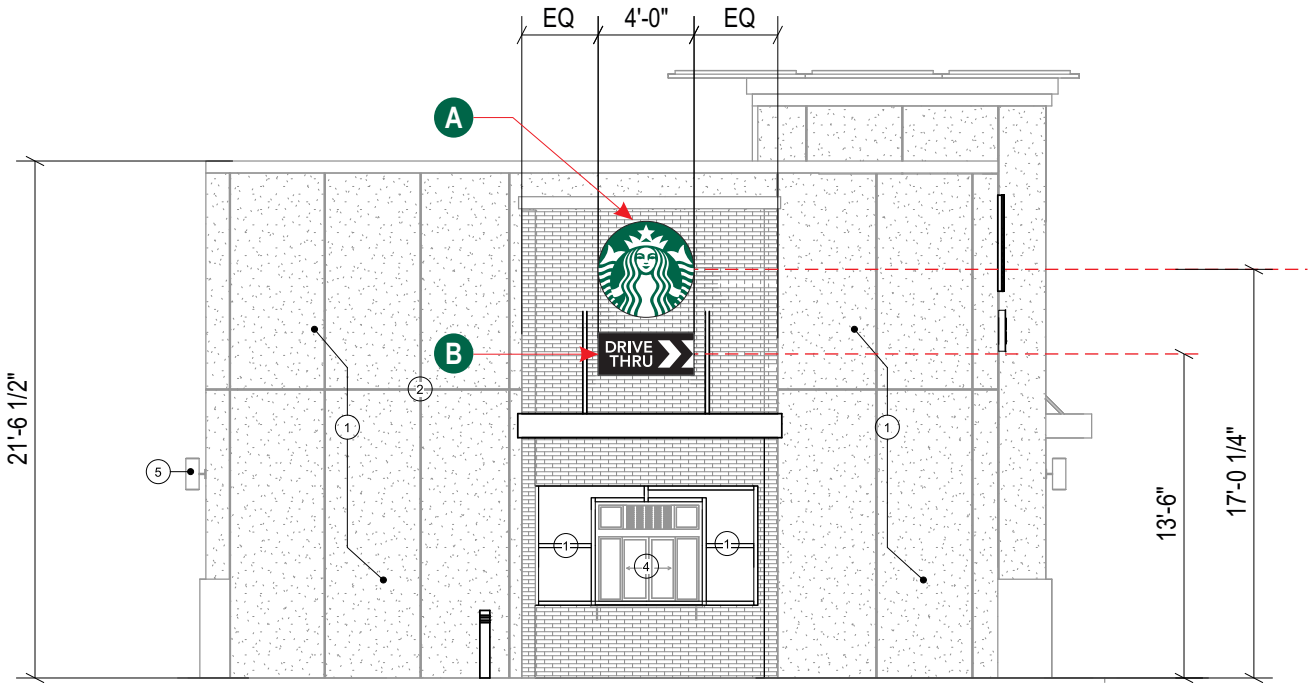
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Drawing No

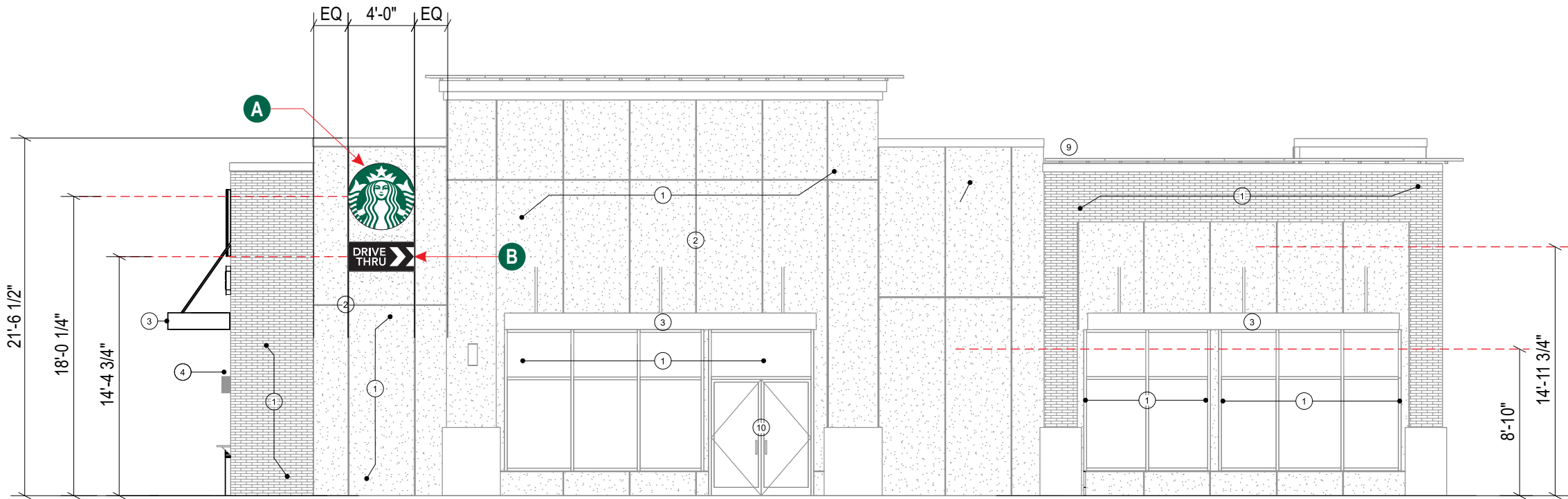
22-267



Page: ELE.1



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



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"

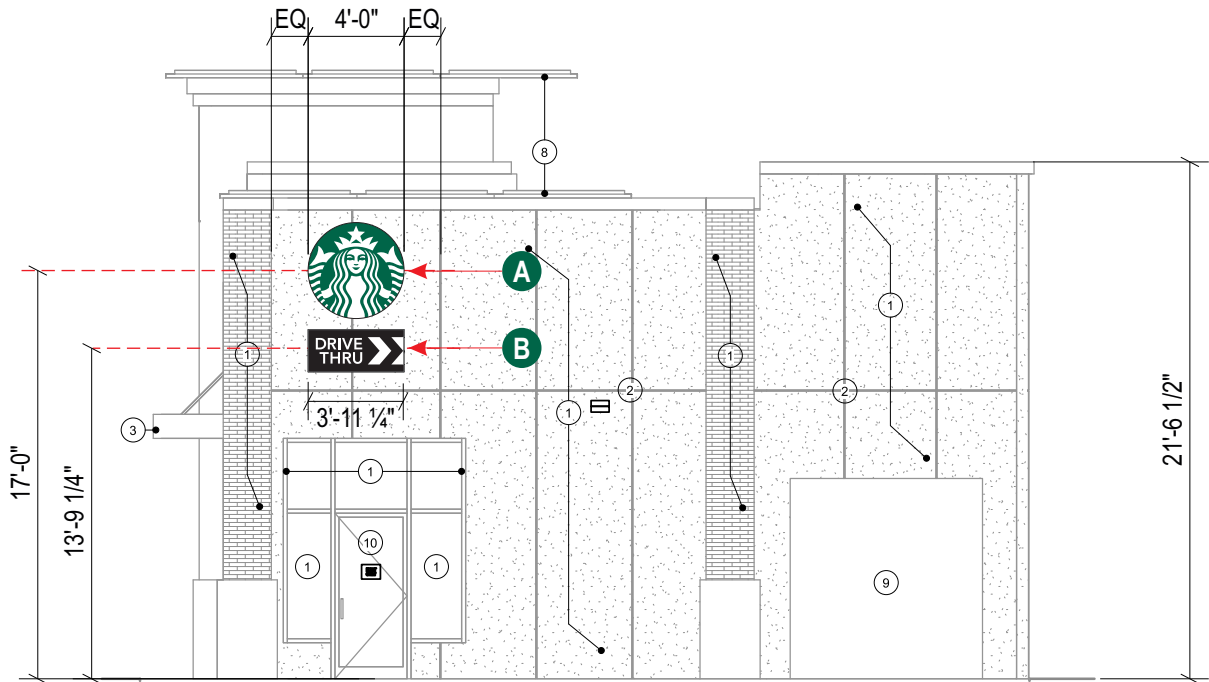
KEY LEGEND

A

48" SIREN LOGO DISC

B

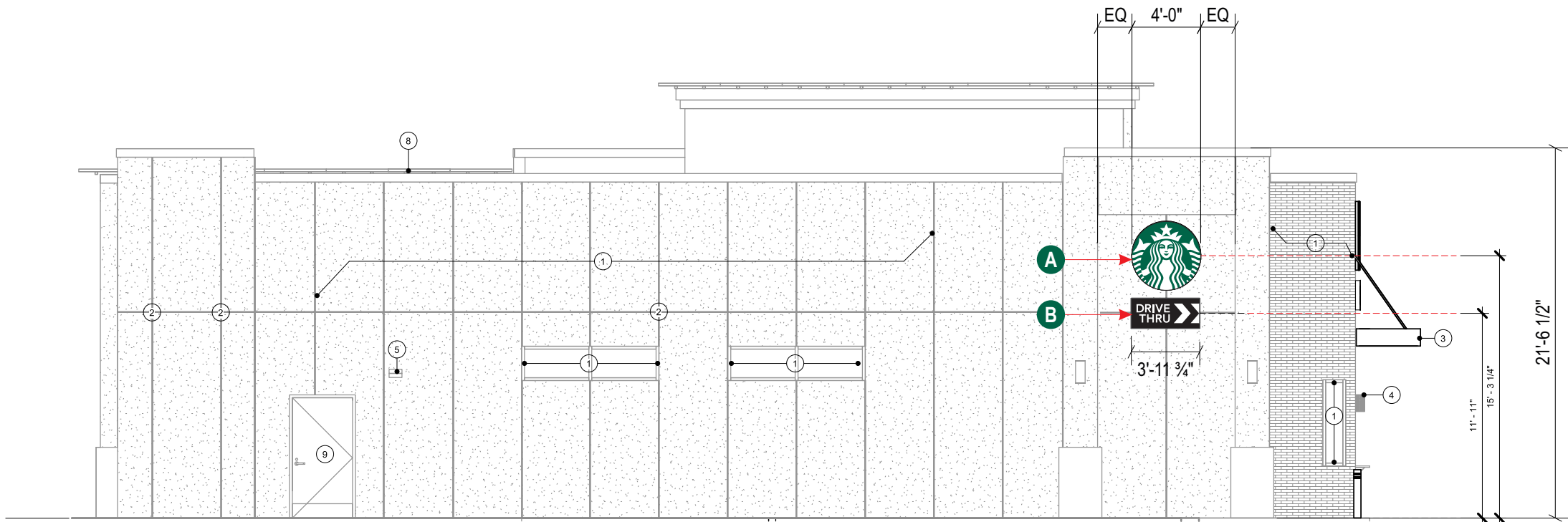
48" ILLUM. DT W/ RIGHT ARROW



1

SOUTH ELEVATION

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



2

EAST ELEVATION

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



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Page: ELE.2



Project:



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Page: 1.0



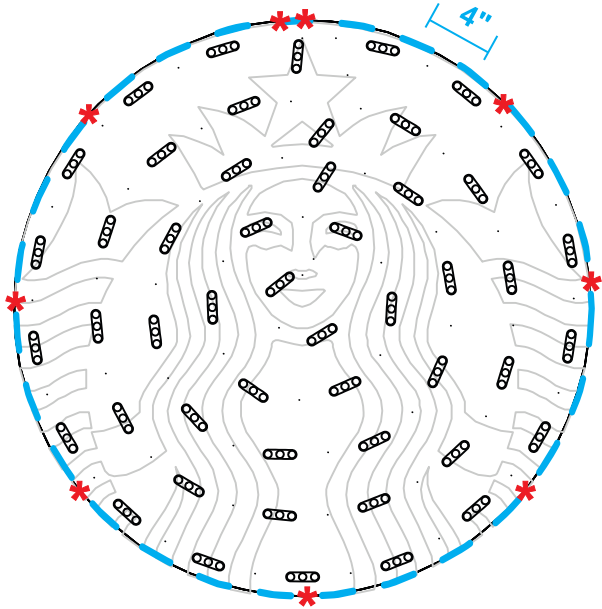
1 FRONT VIEW

Scale: 3/4" = 1' (11x17 Paper)

Specifications:

- A Single face internally illuminated Excellart EC-Flex Standard flex face cabinet with bleed trim cover.
- B White Flex faces with 3M 3630-126 Dark Emerald Green vinyl. Face retention clips spaced every 4".
- C Interior of cabinet painted reflective white and exterior painted satin black.
- D Internally illuminated with 6500K Sloan Prism Enlighten LEDs with remote power supply.
- E 1/4" drain holes located at the bottom of cabinet as required by UL 48 for Electric Signs.
- F Drain holes to be covered with drain hole covers to reduce light leaks.

Excellart Face Retention
clips spaced at
4" on center.



50

* #6 PAN HEAD SCREWS

- 1) ACTUAL CHANNEL LETTER POPULATION AND PRODUCT PLACEMENT MAY VARY FROM THIS LAYOUT
- 2) PRISM ENLIGHTEN WHITE 6500K LAID OUT AT 1.5 MODULES PER FOOT, 5.0" ON CENTER
- 3) EACH 60W3 POWER SUPPLY CAN RUN UP TO 72 PRISM ENLIGHTEN WHITE 6500K MODULES
- 4) LAYOUT BASED ON A 2.125" CAN DEPTH
- 5) DIMENSIONS ARE IN INCHES UNLESS STATED OTHERWISE
- 6) 701269-6WEJ1-MB WATTS PER MODULE: .75
- 7) PRIMARY SYSTEM POWER: 46.88 WATTS
- 8) LED MODULE POWER USAGE (secondary): 57.90 WATTS

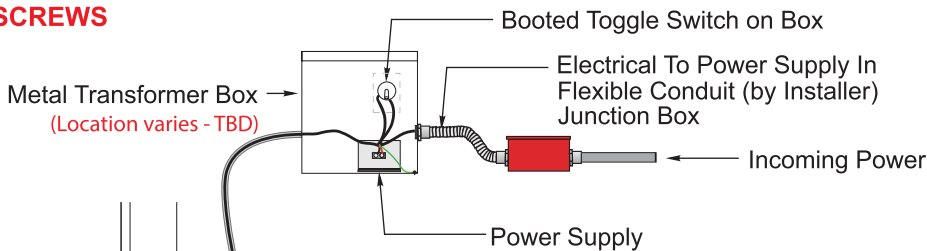
ESTIMATED PRODUCT B.O.M. PER SIGN:

50 Each Prism Enlighten White 6500K Modules - 34'

PN: 701269-6WEJ1-MB

1 Each 60C2 (Damp/Dry locations) or 60W3 (Wet location) 60W Power Supply 12VDC

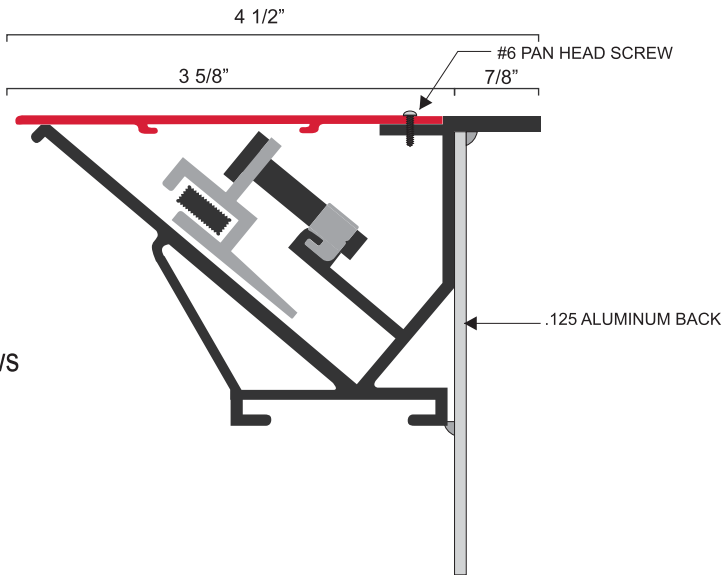
1 Each 100' Roll of Jacketed Cable



Note:
Mounting method to be confirmed
via tech survey

White Flex Material
- 1st Surface Green Vinyl

.063" white aluminum LED baffle
mounted to 1" spacers with screws

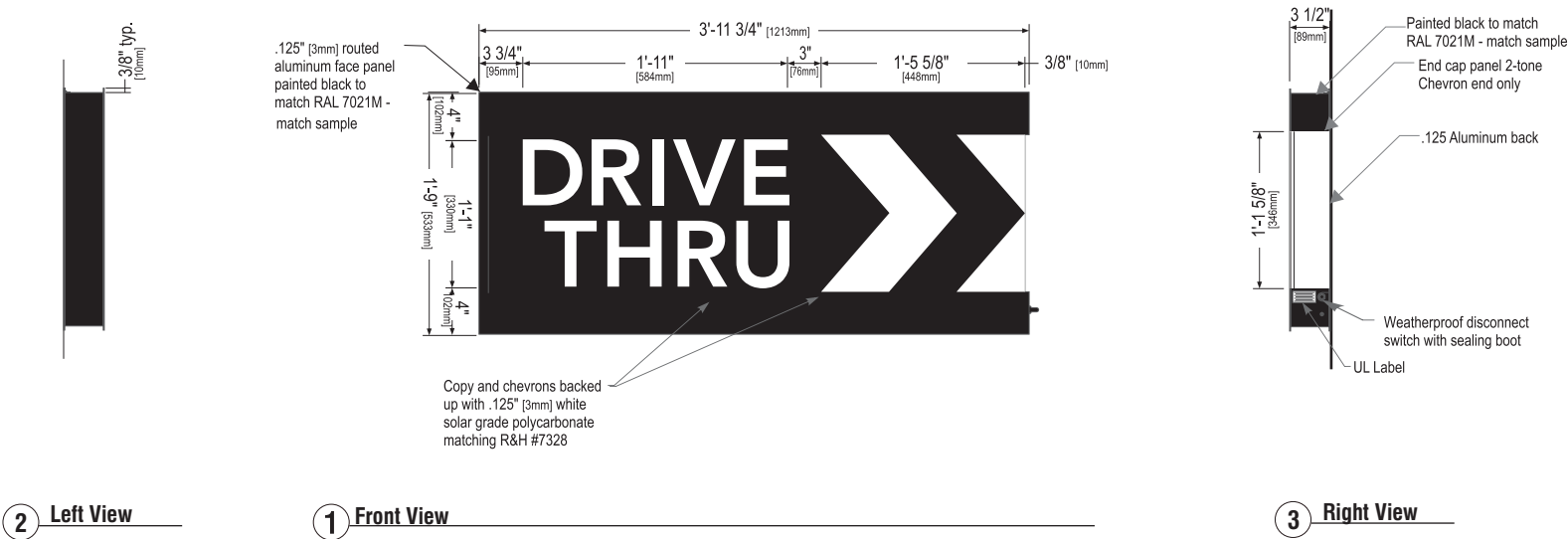


Excellart EC-Flex Standard with Bleed Trim Cover

Siren Detail

COLOR LEGEND		
	PMS/PAINT	VINYL
	PMS 3425 C	3M 3630-126
	SATIN BLACK	NA
	PMS WHITE	NA





Sign Specifications:

- Cabinet:
- Fabricated .125" [3mm] aluminum housing painted black to match RAL 7021M with 3M #180-10 white vinyl end cap as shown.
 - Areas using black paint to match RAL 7021M shall have a max 20% gloss level, match sample.
 - Back to be .125" [3mm] aluminum.
 - Directional copy and chevrons backed up with .125" [3mm] white solar grade polycarbonate matching R&H #7328. All polycarbonate face elements to be mechanically retained.
 - Interior aluminum surfaces of sign cabinet to be painted white with Lacryl Starbrite.
 - Welded aluminum construction with no visible fasteners. Fasteners retaining the hinged face will be located on the bottom such that they are not visible. All fasteners used in the assembly of internal components shall be coated to prevent corrosion.
 - Internal structure of cabinet shall be per approved shop drawings.
 - Internally illuminated logo disc with Sloan Prism Enlightne white 6500k, laid out at 1.5 modules per foot, 7" on center installed to back of disk with self-contained power supply with U.L approved enclosure.

- Regulatory:
- Sign must meet all regulations in the National Electric Code as well as any local or state electrical codes.
 - As per NEC 600.6, sign is equipped with a service disconnect switch.
 - Sign must be listed as an Electric Sign per Underwriters Laboratories UL48 and/or CSA and bear the appropriate UL, CUL or CSA relevant certification marks.
 - Primary power by electrical contractor per NEC.



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Size	Sq. Ft¹	Sq. Ft²	Volts	Amps
21" (533mm)	4.52	6.96	120	0.85

1: Figured as illuminated center part
2: Figured as complete signage

MOUNTING HARDWARE CHART			
	MASONRY	WOOD	METAL
1/4" BOLTS THRU WALL	*	*	*
1/4" LAGS W/ SHIELD	*		
1/4" LAG BOLTS		*	
1/4" TOGGLE BOLTS			*

Project:



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Client Approval:

Date of Approval:

Sales Rep:

Date:

06-30-22

Drawn by:

L.S.

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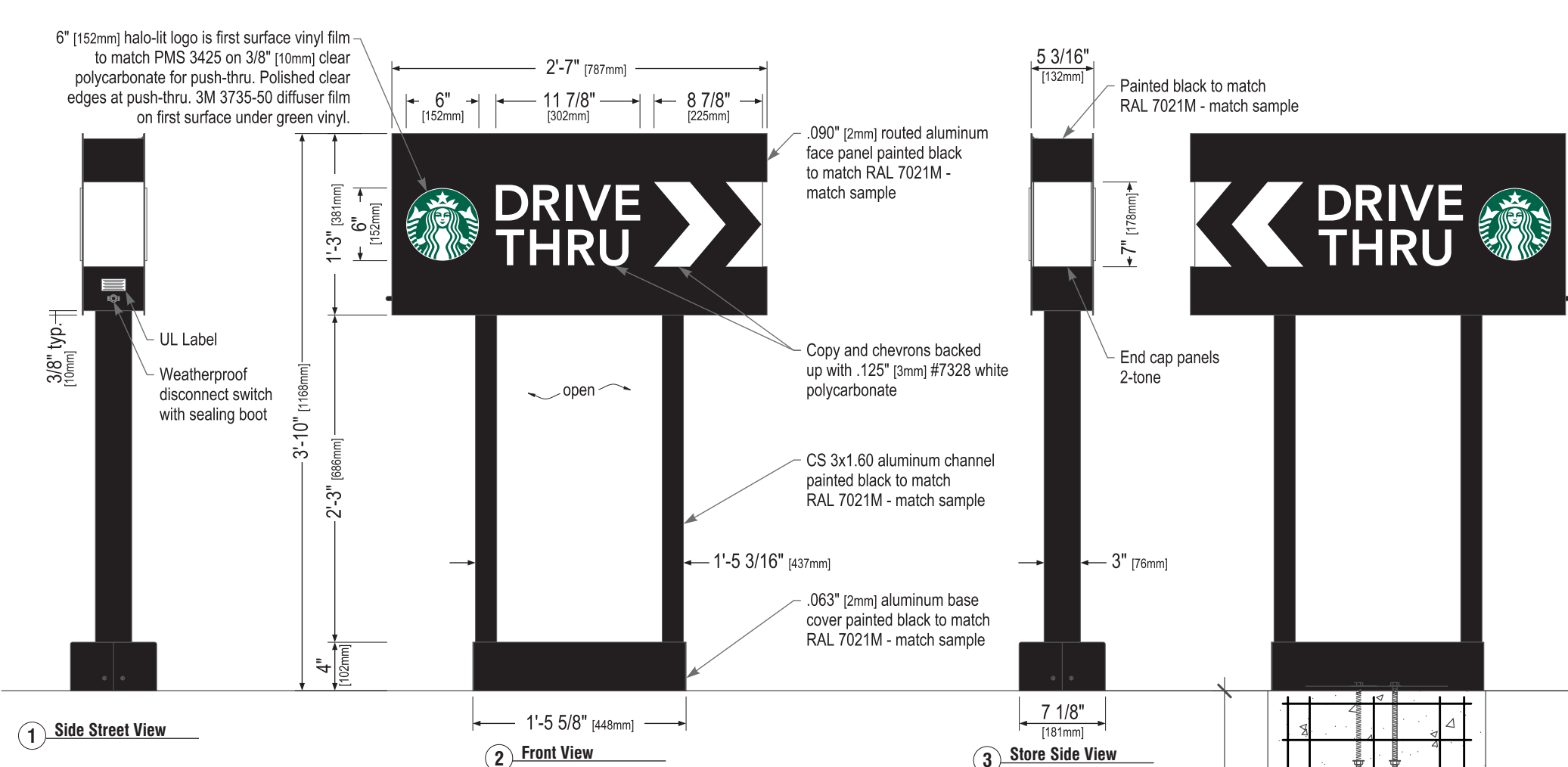
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Drawing No

22-267

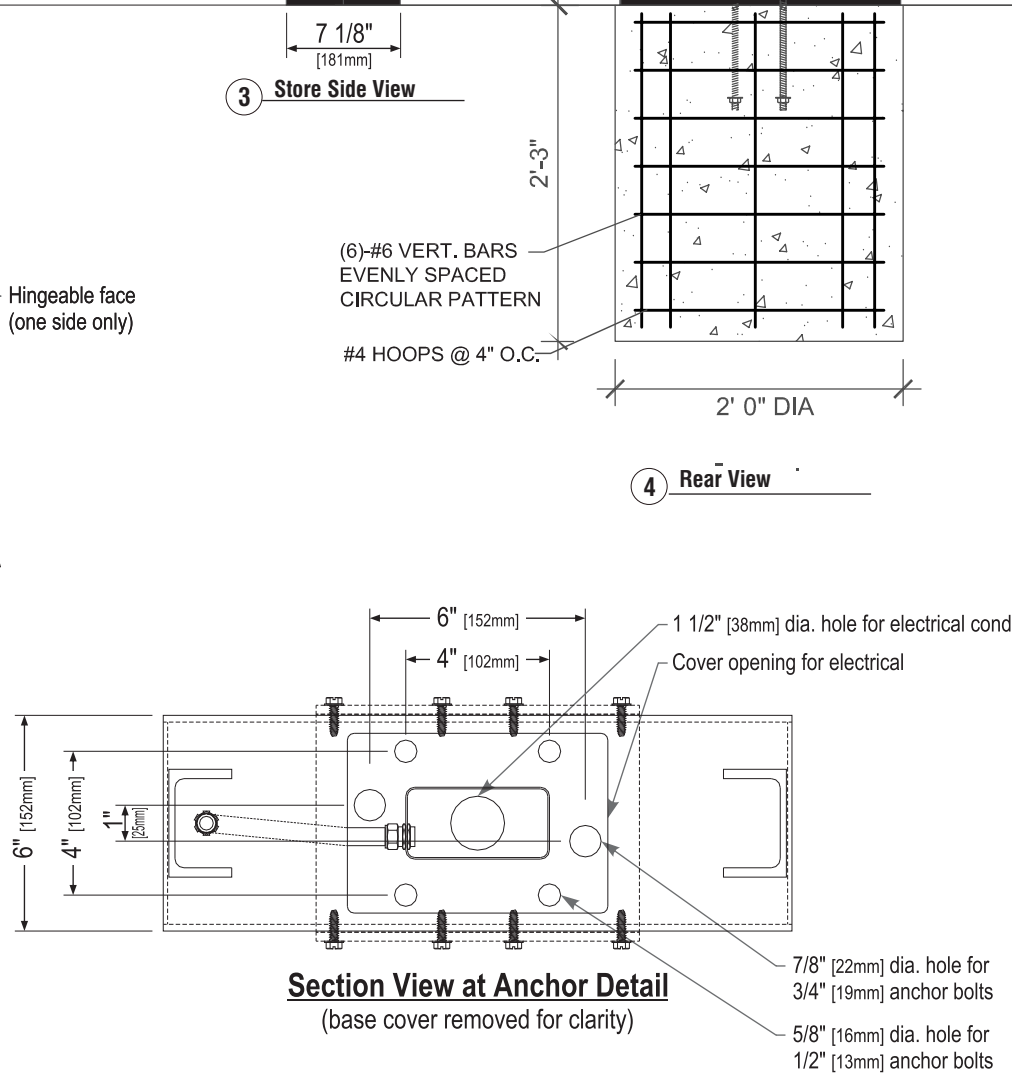
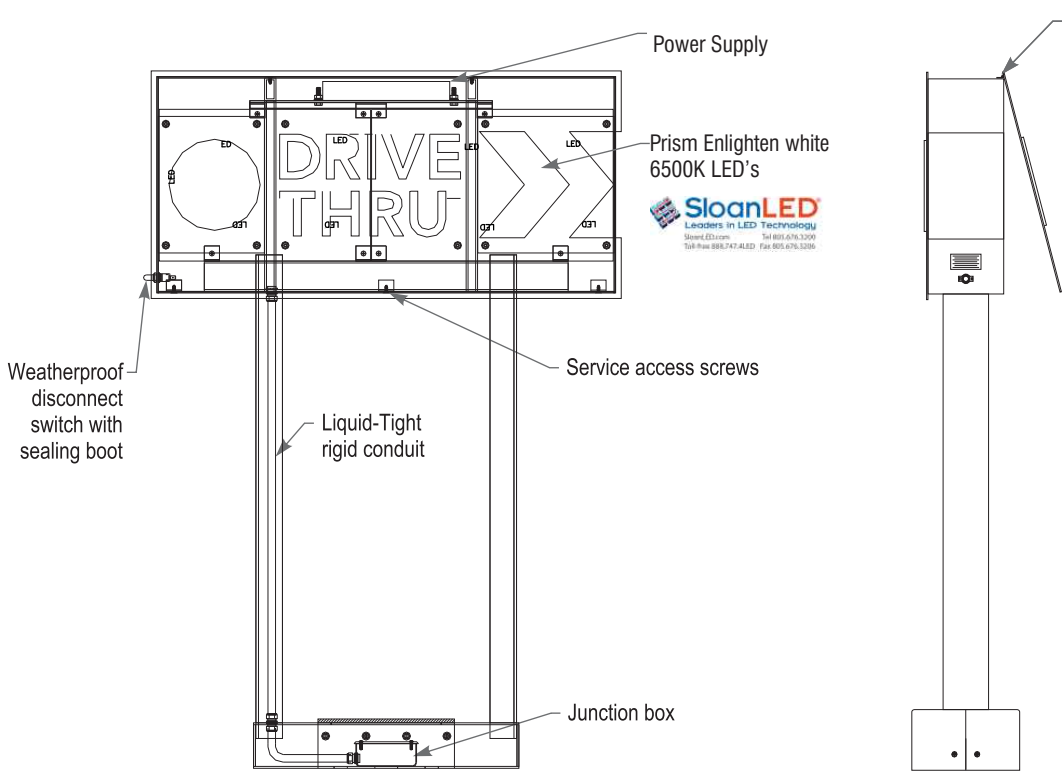



Page: 2.0



C D/F DRIVE THRU DIRECTIONAL SIGNS~ Qty (1)

Scale: 1"= 1'



- Sign Specifications:**
- Design ID#14104**
- 
- Cabinet:**
- Fabricated .090" [2mm] aluminum housing painted black to match RAL 7021M with white end caps as shown.
 - Directional copy and chevrons backed up with .125" [3mm] #7328 white polycarbonate. Siren logo is 6" [152mm] diameter, 3/8" [10mm] clear polycarbonate routed to push thru aluminum face. Decorate logo with 1st surface computer cut vinyl film to match PMS 3425 and 3735-50 diffuser film underneath green vinyl. Edges of push thru logo are to be clear polished. All polycarbonate face elements to be attached to aluminum face panel with weld studs.
 - Interior aluminum surfaces of sign cabinet to be painted white with Lacryl Starbrite.
 - Welded aluminum construction with no visible fasteners. Fasteners retaining the hinged face will be located on the bottom such that they are not visible. All fasteners used in the assembly of internal components shall be coated to prevent corrosion.
 - Internal structure of cabinet shall be per approved shop drawings.
 - Internally illuminated logo disc with Sloan Prism Enlighten white 6500k, laid out at 1.5 modules per foot, 7" on center with self-contained power supply with U.L approved enclosure.

- Support:**
- Supporting structure will be all welded aluminum tube and channel construction painted black to match RAL 7021M as per approved shop drawings and shall be integral to the sign cabinet.
 - Base tube will be constructed so that it can be retro-fittable to existing sign foundations. All foundations, existing and new must be analyzed for suitability and must meet all local city or state codes regulations.

- Regulatory:**
- Sign must meet all regulations in the National Electric Code as well as any local or state electrical codes.
 - As per NEC 600.6, sign is equipped with a service disconnect switch.
 - Sign must be listed as an Electric Sign per Underwriters Laboratories UL48 and/or CSA and bear the appropriate UL, CUL or CSA relevant certification marks.
- Primary power by electrical contractor per NEC.




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Size	Sq. Ft. ¹	Sq. Ft. ²	Volts	Amps
46" (1168mm)	1.51	9.90	120	0.85

1: Figured as illuminated center part
2: Figured as complete signage

Project:



Location:

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Client Approval:

Date of Approval:

Sales Rep:


Date: 06-30-22

Drawn by: L.S.

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Drawing No

22-267

Page: **3.0**



Client Approval:

Sales Rep:

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:



Drawing No

2

Page: 4.1



BASE PLATE DETAIL

$$1\ 1/2^n = 1'-0^n$$

- ① (2) CS 3x1.60 ALUMINUM CHANNEL PER ELEVATION AND BASE PLATE
DETAIL HEREON.

- (2) 5/8" THK. ALUMINUM BASE PLATE (17.63"x6") PER BASE PLATE DETAIL HEREON.

- 4 HORIZ: (3) #3 TIES AT 3" O.C. AND THEN (3) #3 TIES AT 6" O.C.
VERT: (6) #4 BAR SPACES EVENLY AROUND PERIMETER CLEARANCE 3" MIN. TO
EDGE OF CONC.

- ⑤ CONCRETE FOOTING PER PLAN AND SPECIFICATIONS HEREON.



YOSIMAR RAMOS
R.C.E. 89832
LIC. EXP 06/30/23

YR ENGINEERING LP
424 E. MAITLAND ST. STE. A
ONTARIO, CA 91761
PHONE: (626) 374-5881
EMAIL: YRAMOS@YRENGINEERING.COM

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND 2018 INTERNATIONAL BUILDING CODE (IBC).
2. ANY CONFLICTS BETWEEN THESE DRAWINGS, STANDARDS NOTED HEREIN, PROJECT REQUIREMENTS. AND/OR OTHER REFERENCE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER, WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
3. PROVIDE ISOLATION OF DISSIMILAR MATERIALS

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: $R_p=3.0$
AMPLIFICATION FACTOR: $A_p=2.5$

1. DESIGN AND CONSTRUCTION IN COMPLIANCE TO ACI 318-14.
2. STEEL REINFORCEMENT IN CONCRETE ASTM A615 GRADE 60.
3. COMPRESSIVE STRENGTH AT 28 DAYS: $f_c = 2,500$ PSI MIN.
4. PROVIDE A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.
5. CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH SOIL.
6. SOIL PASSIVE PRESSURE PER CBC CLASS 5 (100 PCF).

1. FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE MOST CURRENT ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL 1.
2. ALUMINUM ELEMENTS 6061-T6
3. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AISC QUALITY CERTIFIED FABRICATOR.
4. UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE OF WELD TO MATCH SMALLEST MEMBER/MATERIAL SIZE.
5. ALL SHOP CONNECTIONS SHALL BE WELDED IN CONFORMANCE WITH STANDARDS BASED UPON THE CURRENT EDITION OF ANSI/AWS D1.2. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED AS PROVIDED IN THE CODE.

(29.3-1)	$F_{q_h} = G^* C_p A_h$	(26.10-1)	$q_h = 0.00256^* K_z^* K_{zt}^* K_{sd}^* K_{se}^* V^2$
	Risk Category:	II	
(26.5)	Wind Speed (V):	150	mph per ATC Council
(Table 26.6-1)	Directional Fac. (K_d):	0.85	(Table 26.6-1)
(26.7)	Exposure Category:	C	
(26.8.2)	Topo Fac. (K_a):	1	(unless unusual terrain)
(26.9)	Ground Elev. Fac. (K_g):	1	(for all elevation)
(26.11)	Gust Effect Fac (G):	0.85	
	s (height of affected area)	1.25	ft
	h (height)	4	ft
	B (width of affected area)	2.583	ft
		s/h=	0.31
		B/s=	2.07
	Force Coefficient (C_f):	1.794	
	Velocity pressure exposure coefficient (K_z):		(Table 29.3-1)
	for s/h=1, add 10%		ASCE fig. 29.4-1 therefore:
	If 2 poles, spacing between:	1.3	O.C.
			1.0

Mu:	0.64	k-ft	(0.6Mu):	0.39	k-ft	ω:	1.3	IBC 1605.3.2
Vu:	0.22	kips	(0.6Vu):	0.13	kips			
P	0.17	kips	SI:	Snd/3		207.37	psf	IBC 1806.1
Base	2	ft dis.				1068.00		&1806.3.4
Depth	2.33	ft deep	A:	2.34*P/(51xb)		0.95	ft	IBC 1807.3.2.1
h	2.98	ft						
S	267	psf/ft	d:	0.5A(1+V/(4.36hA))		2.30	ft	

Base Plate Check		Size:	Nominal Yield Moment	
Mu=	0.645 k-ft	t:	0.625 in	Mnp=Fy*Z: 1.46 k-in
	7.73 k-in	S:	4 in	Φ_b : 0.9
Vu=	0.22 kip	Arm:	0.5 in	$\Phi_b M_{np}$: 1.32 k-in
		b eff:	1 in	Demand/Capacity: 0.37 OKAY
		n:	2 bolts	
Tgrp	1.93 kip	Aluminum 6061-T6		
Tb=	0.97 kip/bolt	Ftuw:	24 ksi	Nominal Yield Moment
Mu PL=	0.5 k-in	Ftyw:	15 ksi	Mnp=Fy*Z: 2.34 k-in
		Fcyw:	15 ksi	Φ_b : 0.9
S (in³)=	0.065	Kt:	1	$\Phi_b M_{np}$: 2.11 k-in
Z (in³)=	0.098			Demand/Capacity: 0.23 OKAY

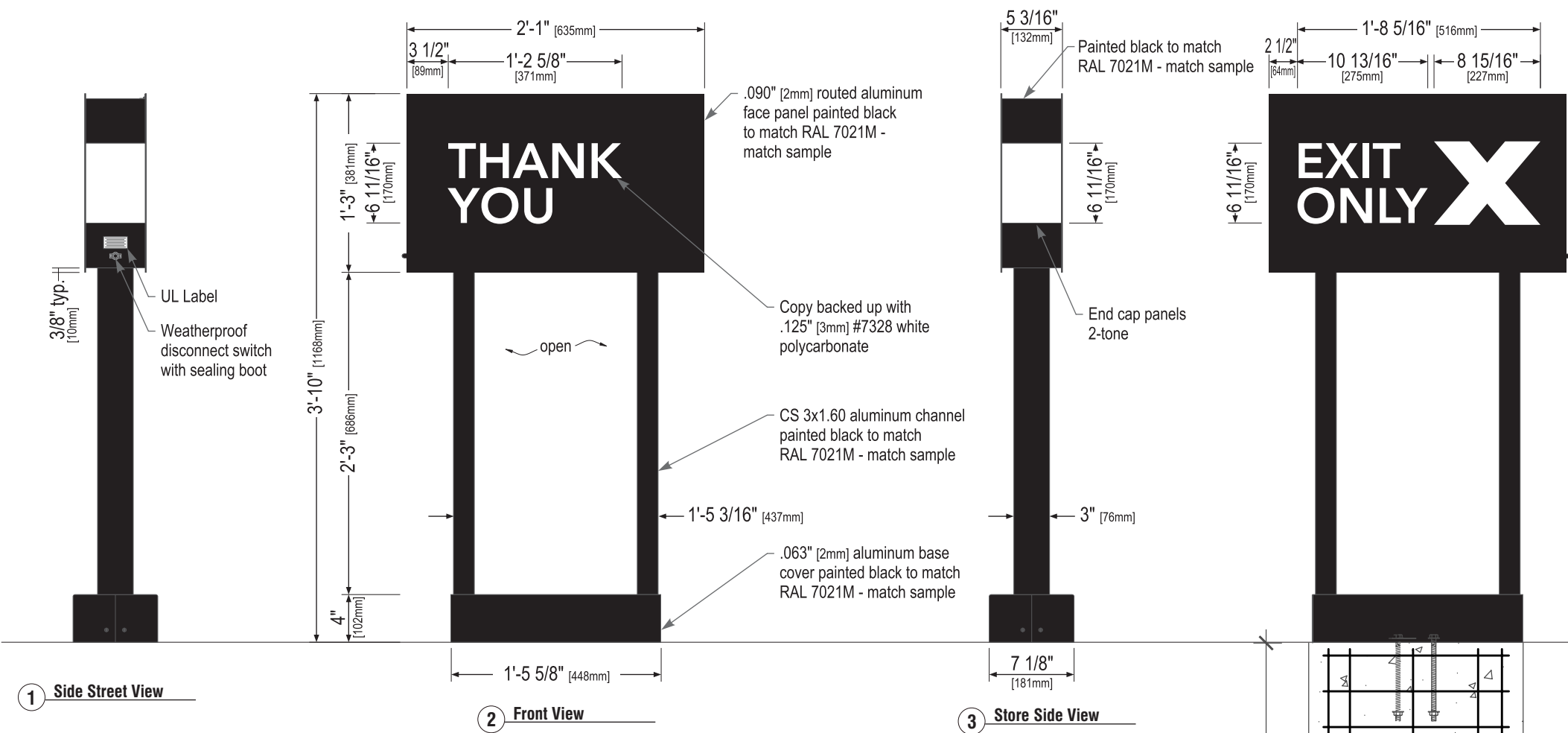
Check Aluminum Rectangular Tube						
Mu=	0.645	k-ft	Mut=	7.73	k-in	Aluminum 6061-T6
Size	C3x1.6		S=	1.310	in ³	Ftuw= 24 ksi
			Z=	1.510	in ³	Ftyw= 15 ksi
			Req Z	0.39		Fcyw= 15 ksi
						Kt= 1
Normal Yield Moment				Nominal Rupture Moment		
Mnp=	22.65	k-in	Mnp=	36.24	k-in	
ϕ_w =	0.9		ϕ_w =	0.9		
$\phi_w Mnp$ =	20.39	k-in	$\phi_w Mnp$ =	32.62	k-in	
D/C=	0.38		D/C=	0.24		

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR	JOB NO: 2131-00	SHEET: 1 OF 1
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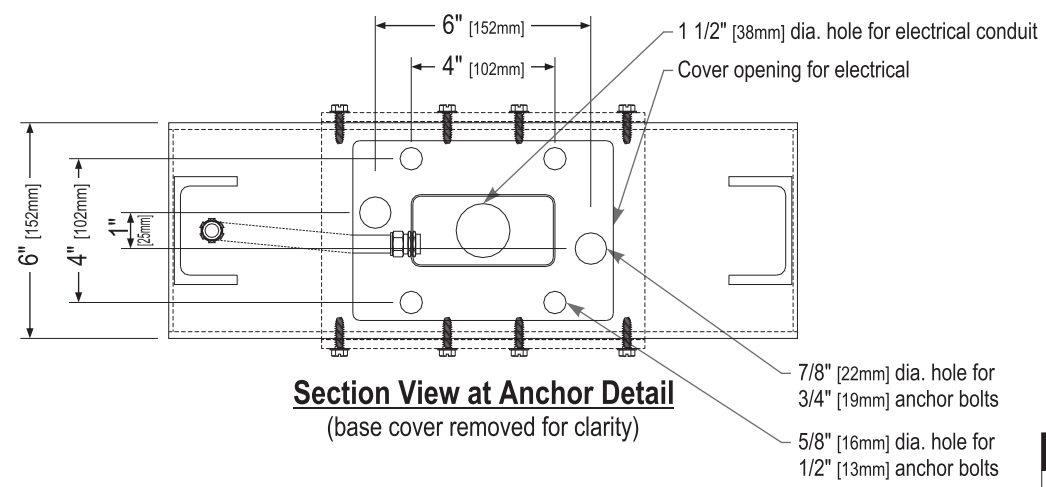
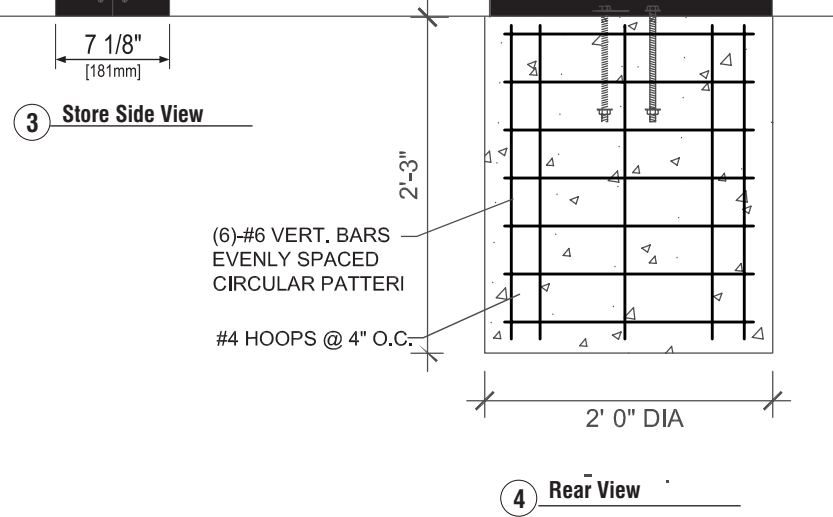
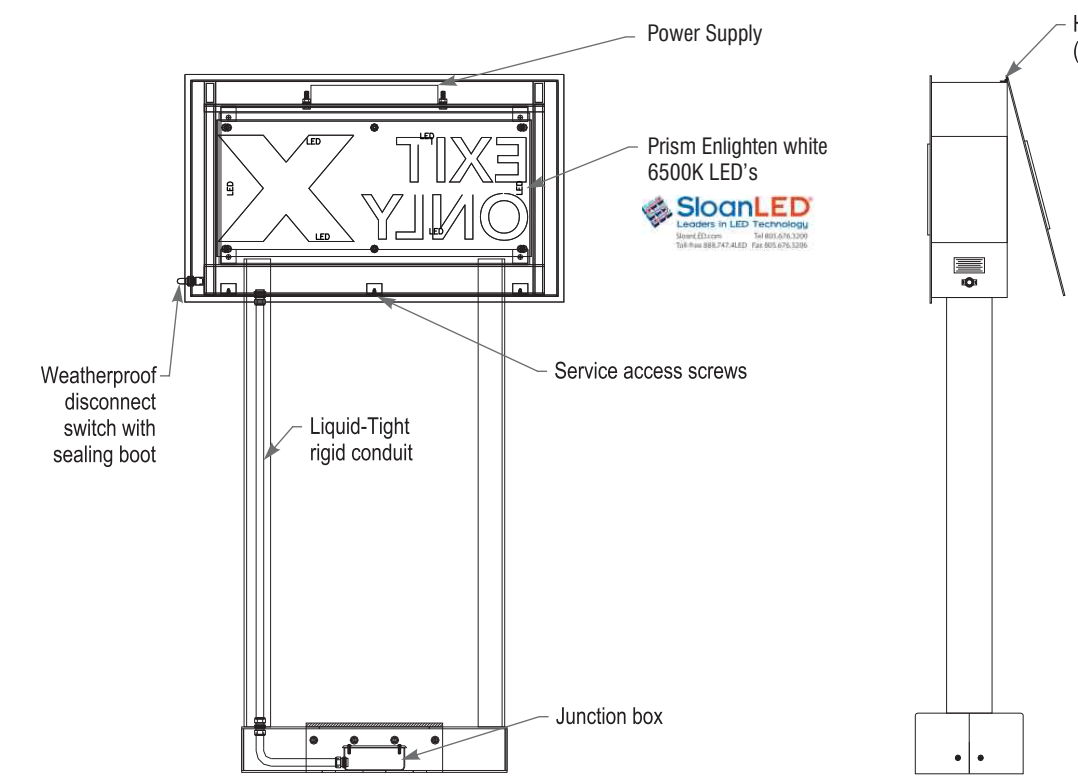
	10-11-21			
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10-11-21			
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D D/F EXIT DIRECTIONAL SIGNS~ Qty (1)

Scale: 1"= 1'



Sign Specifications:

Design ID#14091



- Cabinet:
- Fabricated .090" [2mm] aluminum housing painted black to match RAL 7021M with white end caps as shown.
 - Directional copy backed up with .125" [3mm] #7328 white polycarbonate. All polycarbonate face elements to be attached to aluminum face panel with weld studs.
 - Interior aluminum surfaces of sign cabinet to be painted white with Lacryl Starbrite.
 - Welded aluminum construction with no visible fasteners. Fasteners retaining the hinged face will be located on the bottom such that they are not visible. All fasteners used in the assembly of internal components shall be coated to prevent corrosion.
 - Internal structure of cabinet shall be per approved shop drawings.
 - Internally illuminated logo disc with Sloan Prism Enlighten white 6500k, laid out at 1.5 modules per foot, 7" on center with self-contained power supply with U.L approved enclosure.

- Support:
- Supporting structure will be all welded aluminum tube and channel construction painted black to match RAL 7021M as per approved shop drawings and shall be integral to the sign cabinet.
 - Base tube will be constructed so that it can be retro-fittable to existing sign foundations. All foundations, existing and new must be analyzed for suitability and must meet all local city or state codes regulations.

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Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date: 06-30-22
Drawn by: L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts ☐ 277 Volts



2101 Carrillo Privado, Ontario, CA 91761
(909) 930-0303 Fax: (909) 930-0308
E-mail: design@signindustries.tv
Web: www.signindustries.tv

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Drawing No

22-267



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Size	Sq. Ft. ¹	Sq. Ft. ²	Volts	Amps
46" (1168mm)	0.94	7.99	120	0.85

1: Figured as illuminated center part
2: Figured as complete signage



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Electrical Requirement:



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Drawing No

Page: 4.1



BASE PLATE DETAIL

$$1\ 1/2^n = 1' - 0^n$$

- (1) (2) CS 3x1.60 ALUMINUM CHANNEL PER ELEVATION AND BASE PLATE DETAIL HEREON.
- (2) 5/8" THK. ALUMINUM BASE PLATE (17.63"x6") PER BASE PLATE DETAIL HEREON.
- (3) (4) 1/2" Ø THREADED HOT DIPPED GALVANIZED ANCHOR RODS (ASTM F1554 GRADE 55) WITH GALVANIZED HARDWARE PER ELEVATION AND BASE PLATE DETAIL HEREON.
- (4) HORIZ: (3) #3 TIES AT 3" O.C. AND THEN (3) #3 TIES AT 6" O.C.
VERT: (6) #4 BAR SPACES EVENLY AROUND PERIMETER CLEARANCE 3" MIN. TO EDGE OF CONC.
- (5) CONCRETE FOOTING PER PLAN AND SPECIFICATIONS HEREON.

YR ENGINEERING LP
424 E. MAITLAND ST. STE. A
ONTARIO, CA 91761
PHONE: (626) 374-5881
EMAIL: YRAMOS@YRENGINEERING.COM

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND 2018 INTERNATIONAL BUILDING CODE (IBC).
2. ANY CONFLICTS BETWEEN THESE DRAWINGS, STANDARDS NOTED HEREIN, PROJECT REQUIREMENTS. AND/OR OTHER REFERENCE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER, WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
3. PROVIDE ISOLATION OF DISSIMILAR MATERIALS

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: $R_p=3.0$
AMPLIFICATION FACTOR: $A_p=2.5$

1. DESIGN AND CONSTRUCTION IN COMPLIANCE TO ACI 318-14.
2. STEEL REINFORCEMENT IN CONCRETE ASTM A615 GRADE 60.
3. COMPRESSIVE STRENGTH AT 28 DAYS: $f_c = 2,500$ PSI MIN.
4. PROVIDE A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.
5. CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH SOIL.
6. SOIL PASSIVE PRESSURE PER CBC CLASS 5 (100 PCF).

1. FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE MOST CURRENT ALUMINUM ASSOCIATION ALUMINUM DESIGN MANUAL 1.
2. ALUMINUM ELEMENTS 6061-T6
3. ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AISC QUALITY CERTIFIED FABRICATOR.
4. UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE OF WELD TO MATCH SMALLEST MEMBER/MATERIAL SIZE.
5. ALL SHOP CONNECTIONS SHALL BE WELDED IN CONFORMANCE WITH STANDARDS BASED UPON THE CURRENT EDITION OF ANSI/AWS D1.2. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED AS PROVIDED IN THE CODE.

(29.3-1)	$F_{q0} = G^*C_r^*A_s$	(26.10-1)	$q_0 = 0.00256^*K_d^*K_{zt}^*K_{se}^*K_a^*V^2$
	Risk Category:	II	
(26.5)	Wind Speed (V):	150	mph per ATC Council
(Table 26.6-1)	Directional Fac. (K_d):	0.85	(Table 26.6-1)
(26.7)	Exposure Category:	C	
(26.8.2)	Topo Fac. (K_{zt}):	1	(unless unusual terrain)
(26.9)	Ground Elev. Fac. (K_{se}):	1	(for all elevation)
(26.11)	Gust Effect Fac (G):	0.85	
	s (height of affected area)	1.25	ft
	h (height)	4	ft
	B (width of affected area)	2.583	ft
	s/h=	0.31	
	B/s=	2.07	
	Force Coefficient (C_g):	1.794	
	Velocity pressure exposure coefficient (K_d):		(Table 29.3-1)
	for s/h=1, add 10%		ASCE fig. 29.4-1 therefore:
	if 2 poles, spacing between:	1.3	O.C.
			1.0

Mu:	0.64	k-ft	(0.6Mu):	0.39	k-ft	w:	1.3	IBC 1605.3.2
Vu:	0.22	kips	(0.6Vu):	0.13	kips			
P:	0.17	kips	S1:	Sxd/3		207.37	psf	IBC 1806.1
Base	2	ft dia.				1068.00		&1806.3.4
Depth	2.33	ft deep	A:	2.34*P/(S1xb)		0.95	ft	IBC 1807.3.2.1
h	2.98	ft						
S:	267	psf/ft	d:	0.5A[1+v/(1+4.36hA)]		2.30	ft	

IBC Table 1806.2

Base Plate Check		Size:		Nominal Yield Moment	
Mu=	0.645 k-ft	t:	0.625 in	Mnp=Fy*Z:	1.46 k-in
	7.73 k-in	S:	4 in	ϕ_b :	0.9
Vu=	0.22 kip	Arm:	0.5 in	$\phi_b M_{np}$:	1.32 k-in
		b eff:	1 in	Demand/Capacity:	0.37 OKAY
		nc:	2 bolts		
Tgrp	1.93 kip	Aluminum 6061-T6		Nominal Yield Moment	
Tb=	0.97 kip/bolt	Ftuw:	24 ksi	Mnp=Fy*Z:	2.34 k-in
Mu PL=	0.5 k-in	Ftyw:	15 ksi	ϕ_b :	0.9
		F cyw:	15 ksi	$\phi_b M_{np}$:	2.11 k-in
S (in ³)=	0.065	Kt:	1	Demand/Capacity:	0.23 OKAY
Z (in ³)=	0.098				

Check Aluminum Rectangular Tube						
Mu=	0.645	k-ft	Mut=	7.73	k-in	Aluminum 6061-T6
Size	C3x1.6		S=	1.310	in ³	Ftuw= 24 ksi
			Z=	1.510	in ³	Ftyw= 15 ksi
			Req Z	0.39		Fcyw= 15 ksi
						Kt= 1
Normal Yield Moment				Nominal Rupture Moment		
Mnp=	22.65	k-in	Mnp=	36.24	k-in	
ϕ_b =	0.9		ϕ_u =	0.9		
$\phi_b Mnp$ =	20.39	k-in	$\phi_u Mnp$ =	32.62	k-in	
D/C:	0.38		D/C:	0.24		

DIRECTIONAL SIGNAGE

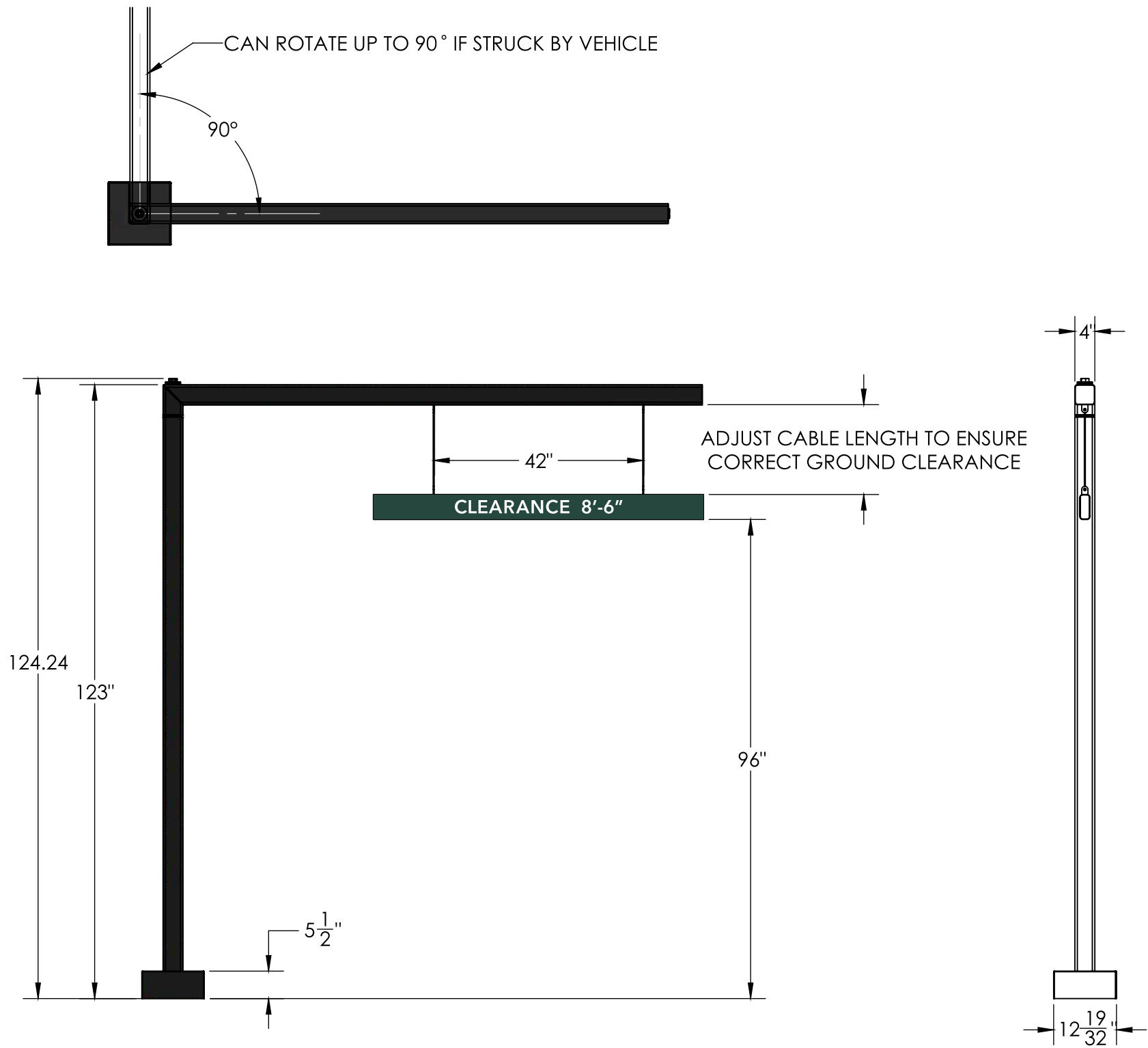
VARIOUS LOCATIONS, CALIFORNIA

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR	JOB NO: 2131-00	SHEET: 1 OF 1
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	10-11-21			
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10-11-21			
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E FREESTANDING -DT CLEARNANCE BAR ARROW SERIES~ Qty (1)

Design ID#22544



Project:

Location:

449 E 4TH ST
BEAUMONT, CA 92223

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Electrical Requirement:

☐ 120 Volts

☐ 277 Volts



CONCEPTUAL RENDERING



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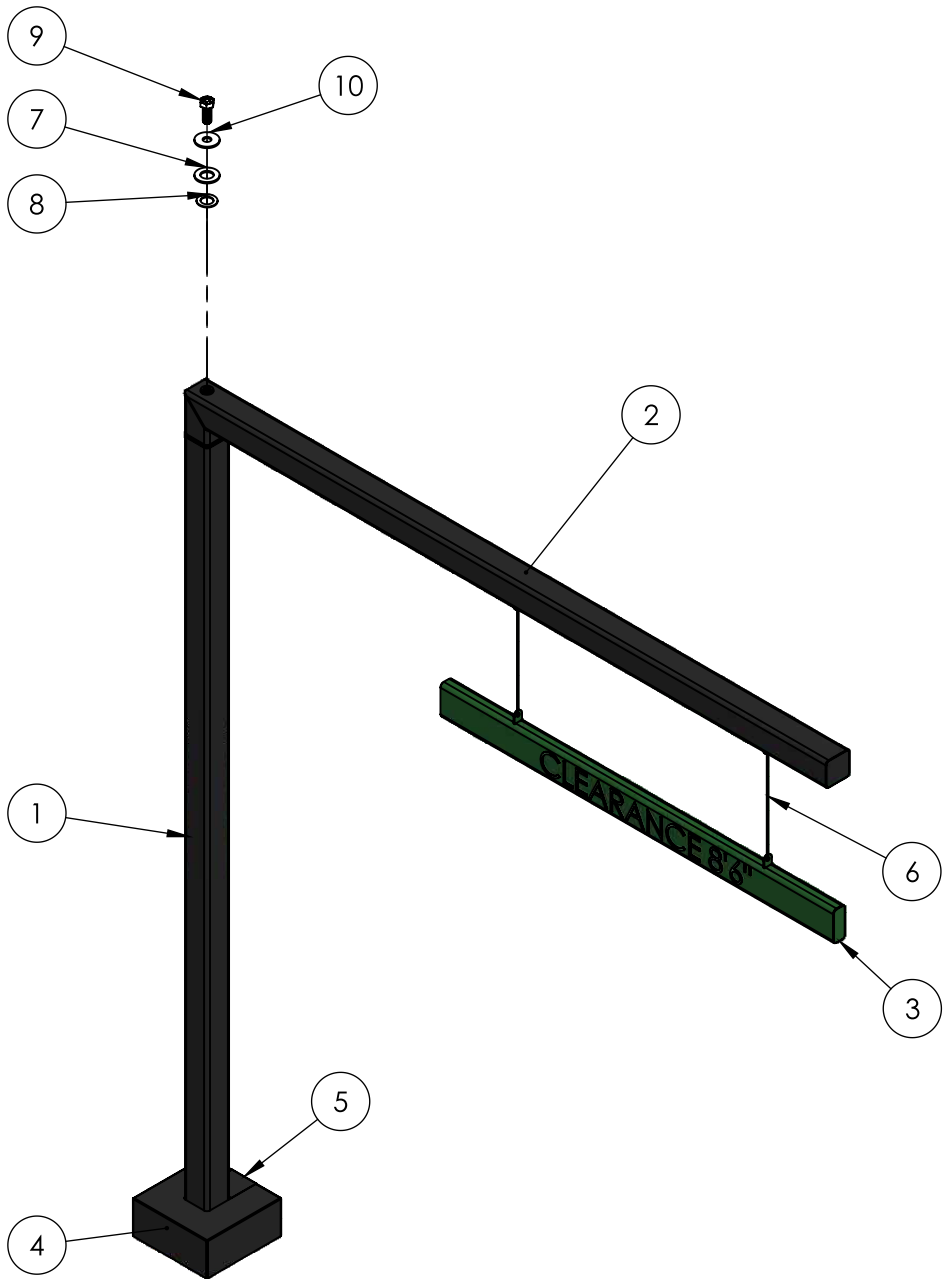
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22-267



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ITEM NO.	PART #	DESCRIPTION	FINISH	Default/QTY.
1	219-022-0001S	SBUX REVO CB BOTTOM HALF_POWDERED BLACK	PSB6865 BLACKBOARD	1
2	219-022-0003S	SBUX REVO CB TOP HALF_POWDERED BLACK	PSB6865 BLACKBOARD	1
3	219-024-0004S	SBUX REVO CB PLACARD W/ LETTERING	PMS 560C GREEN	1
4	219-012-0130	REVO CB BASE COVER FRONT	PSB6865 BLACKBOARD	1
5	219-012-0140	REVO CB BASE COVER REAR	PSB6865 BLACKBOARD	1
6	3467T15	WIRE ROPE ASSY		2
7	219-030-0150	18-8 Stainless Steel SAE Washer, Black-Oxide, 1-1/2" Screw Size, 1.625" ID, 3" OD	BLACK OXIDE	1
8	219-000-0160	Chemical-Resistant PTFE Plastic Washer for 1-1/2" Screw Size, 1.562" ID, 2.5" OD,.115"-.135" Thick	RAW	1
9	219-020-0170	Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1"-8 Thread Size, 2-1/2" Long	CHROMATE	1
10	219-030-0180	Black-Oxide 18-8 Stainless Steel Washer, Oversized, 1" Screw Size, 1.062" ID, 3" OD	BLACK OXIDE	1



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Drawing No

2

Page: 5.2



BASE PLATE DETAIL (PLAN VIEW)

DESIGN CRITERIA:

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH
ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: $R_p=3.0$
AMPLIFICATION FACTOR: $A_p=3.0$

CONCRETE:

1. DESIGN AND CONSTRUCTION IN COMPLIANCE TO ACI 318-14.
2. STEEL REINFORCEMENT IN CONCRETE ASTM A615 GRADE 60.
3. COMPRESSIVE STRENGTH AT 28 DAYS:
 $f'_c = 2500$ PSI MIN.
4. PROVIDE A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.
5. CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH SOIL.
6. SOIL PASSIVE PRESSURE PER CBC CLASS 5 (100 PCF).

Structure Component	Height at section c/c ft.	(Table 26.10-1) K_s factor	q_r psf	q*G/C psf	A_v ft.²	Shear lb	Wind Moment lb-ft
1	0.1	0.85	41.62	67.21	0.3	20	2
2	5.33	0.85	41.62	67.21	3.42	230	1225
3	10.29	0.85	41.62	67.21	3	202	2075
4	10.29	0.85	41.62	67.21	2.3	155	1591
Forces at finish grade					g	606	4893

STEEL REC. 4x4 HSS DESIGN:

E _y :	46	ksi	Area of Sign:	9	ft ²	M _u :	4.9	k-ft
E:	29000	ksi	Wind Load	67.21	psf	V _u :	0.6	kips
Square Member Design								
Size H (in.)	4		h/t _w	14.2				
Size B (in.):	4		b/t _w	14.2				
t (in.):	1/4		K _L /r _y	159.6				
Length (ft):	10.25		F _{cr}	11.23	ksi (E3-4)			
K:	2		Max K _L /r _y	159.6				
A _g (in ²):	3.50		4.71sqrt(E/F _y)	118.3				
r (in.):	1.54		Use:	Eq. 2	Govern			
Z (in ³):	4.96		F _{cr}	Eq. 1	8.28	(E3-2)		
S (in ⁴):	4.16			Eq. 2	9.85	(E3-3)		
I (in ⁴):	8.32	Flange:	b/t _f	14.2	< 1.12(E/F _y)(λ/λ _p)	28	True, Section is Compact	
U (lb):	131		b/t _f	14.2	< 1.40(E/F _y)(λ/r)	35	False, Try other	
W _e :	3.96	Web:	h/t _w	14.2	< 2.42(E/F _y)(λ/λ _p)	61	True, Section is Compact	
S _{xx} :	4.35		h/t _w	14.2	< 5.70(E/F _y)(λ/r)	143	False, Try other	
LRFD φ = 0.90								
Flexural Buckling:			P _n =F _{cr} A _g		φP _n =	31.06	kips	(E3-1)
Yield Moment:			M _n =M _p =F _y S		φM _n =	14.35	k-ft	
Plastic Moment:	Compact Shapes		M _n =M _p =F _y Z		φM _n =	17.10	k-ft	(E3-2)
Z req:	1.42	in ³	Choose Size (2)	4.96	in ³	OKAY		0.29

DIRECT BURIAL FOOTING:

Vu:	4.89	k-ft	(0.65Vu):	2.94	k-ft	ω:	1.3	IBC 1605.3.2
Mu:	0.61	kips	(0.65Mu):	0.36	kips			
P	0.47	kips	S1:	5x1d/3		400.50	psf	
Base	2	ft dia.				1068.00		IBC 1806.1
Depth	4.50	ft deep	A:	2.34*P/(51xb)		1.38	ft	IBC 1807.3.2.1
h	8.07	ft						
S	267	psf-ft	d:	0.5A*(1+(1+(4.36hA))		4.24	ft	

BASE PLATE DESIGN:

Base Plate Check		Size:		Nominal Yield Moment	
Mu=	4.89 k-ft	t:	0.75 in	Mnp=F _y Z*	20.25 k-in
Vu=	58.71 k-in	S:	8 in	φ _n	0.9
	0.61 kip	Arm:	2 in	φ _s M _{np} :	18.23 k-in
		b eff:	4 in	Demand/Capacity:	0.81 OKAY
		n:	1 bolts		
Tgrp	7.34 kip	Steel A36			
Tb=	7.34 kip/bolt	Ft _{uw} :	36 ksi	Nominal Yield Moment	
Mu PL=	14.7 k-in	Pt _{yw} :	36 ksi	Mnp=F _y Z*	20.25 k-in
		F _c yw:	36 ksi	φ _n	0.9
5 (in') ³	0.375	Kt:	1	φ _s M _{np} :	18.23 k-in
Z (in') ³	0.563			Demand/Capacity:	0.81 OKAY

ELEVATION VIEW

$$3/8'' = 1'-0''$$


STEEL:

1. SQUARE/REC HSS STEEL: ASTM A500GR. B $F_y=46$ KSI
2. PLATE STEEL: ASTM A36 $F_y=36$ KSI
3. STRUCTURAL STEEL MEMBERS SHALL BE SHEARED, FORMED, PUNCHED, WELDED, AND PAINTED BY THE MANUFACTURER. ALL SHOP CONNECTIONS SHALL BE WELDED IN CONFORMANCE WITH STANDARDS BASED UPON THE CURRENT EDITION OF ANSI/AWS D1.1. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED AS PROVIDED IN THE CODE.

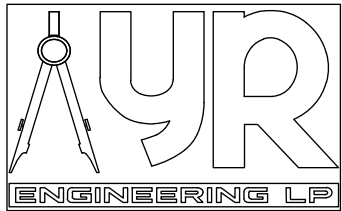
CORNER HSS CONNECTION

NTS




YOSIMAR RAMOS
R.C.E. 89832
LIC. EXP 06/30/23

PREPARED BY:



YR ENGINEERING LP
424 E. MAITLAND ST. STE. A
ONTARIO, CA 91761
PHONE: (626) 374-5881
EMAIL: YRAMOS@YRENGINEERING.COM

STARBUCKS DRIVE THRU SIGNAGE CLEARANCE BAR DETAILS VARIOUS LOCATIONS, CALIFORNIA

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR

JOB NO: 2131-01

SHEET: 1 OF 1

DISREGARD PRINTS BEARING
EARLIER REMISION DATES

10-11-21

23-22

Drawing No

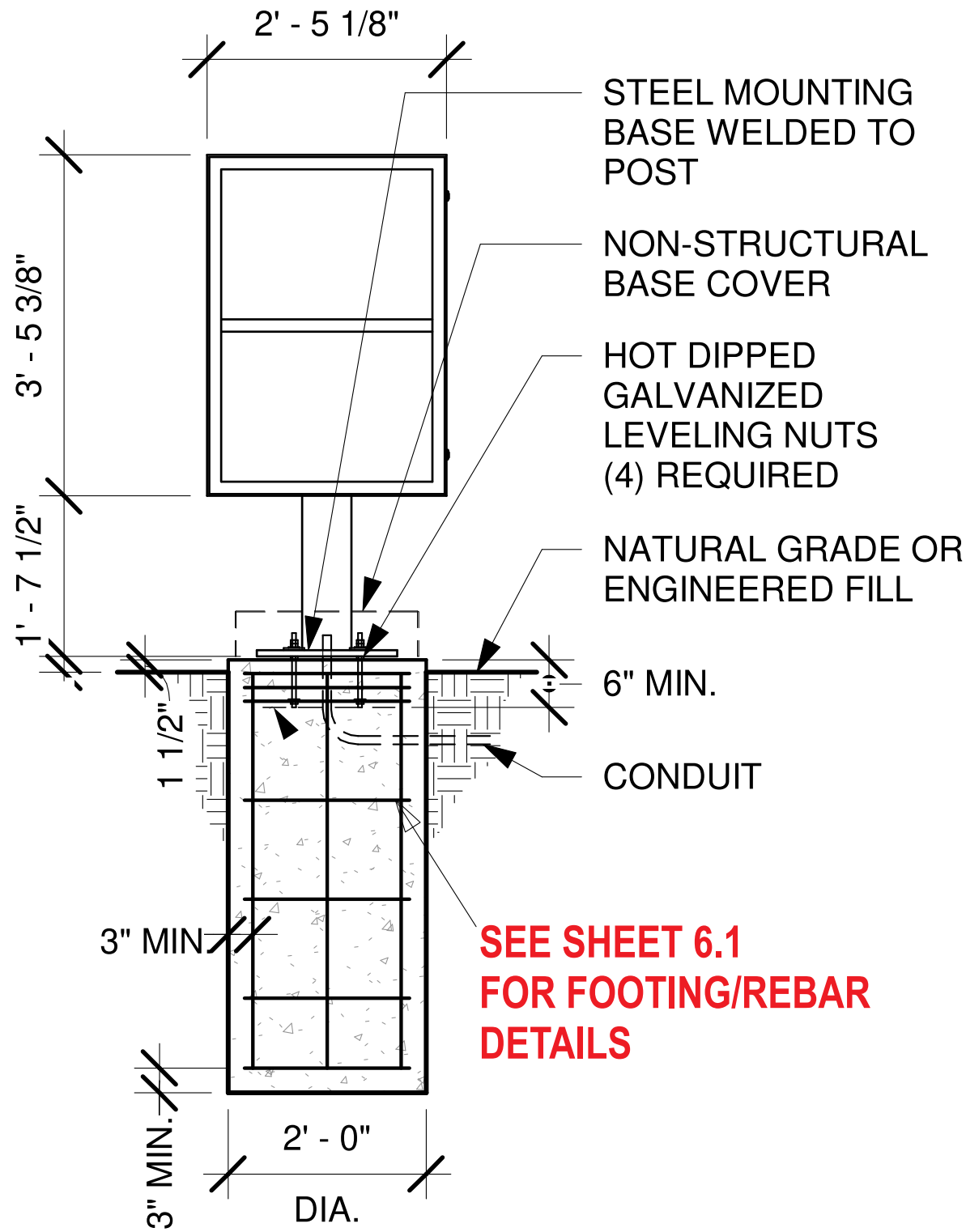
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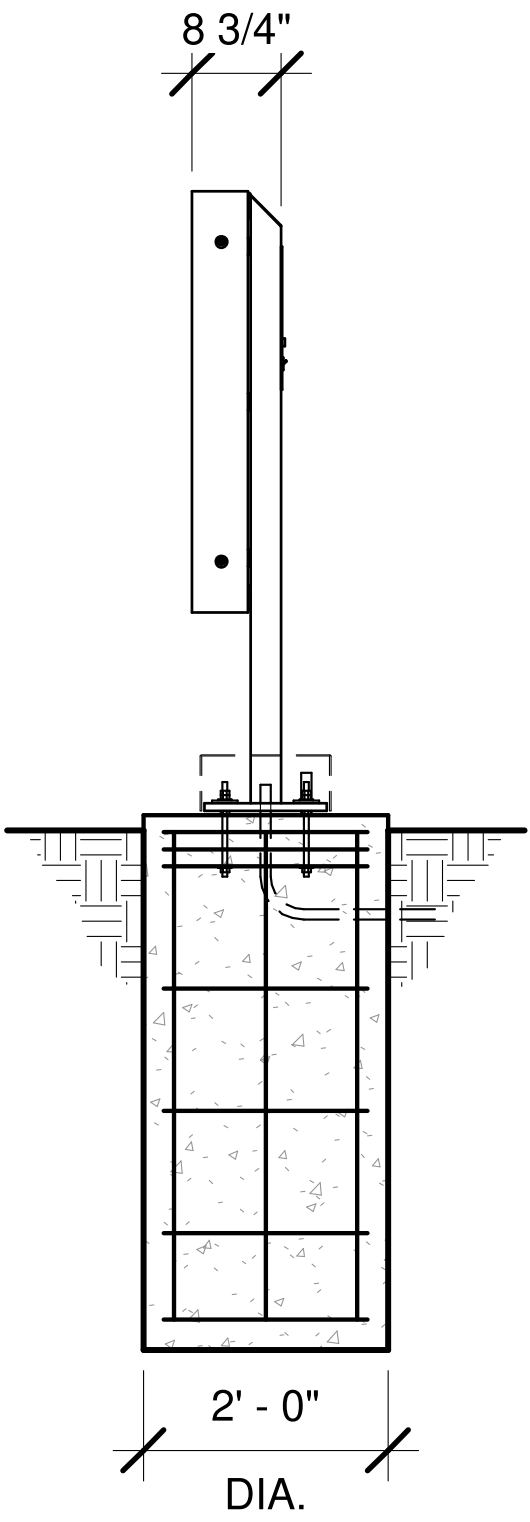


PRE-MENU SIGN

FRONT ELEVATION



SIDE ELEVATION



F DRIVE THRU PRE-MENU SIGN~ Qty (1)
INSTALLATION ONLY

Project:



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Client Approval:

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Date:

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Drawn by:

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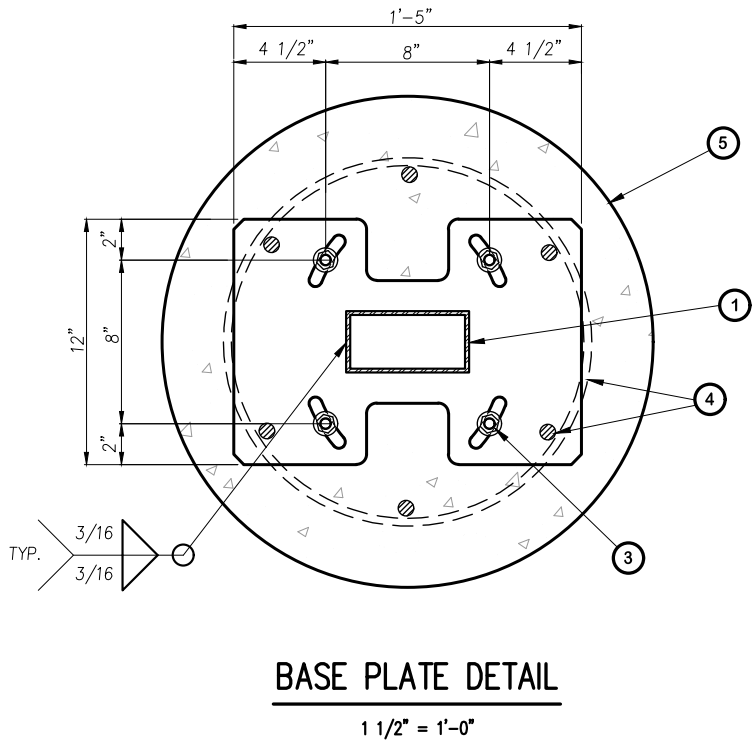
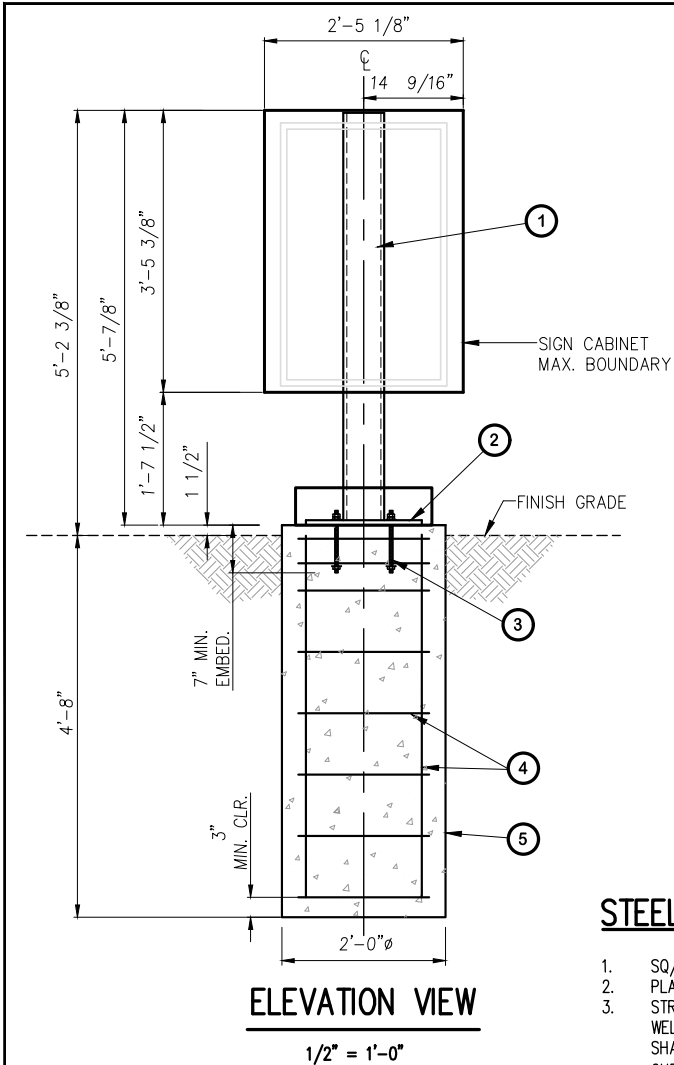
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Drawing No

22-267



Page: **6.0**



STEEL:

1. SQ/RECT. HSS: ASTM A500, GR. B Fy=46 KSI
2. PLATE STEEL: ASTM A36 Fy=36 KSI
3. STRUCTURAL STEEL MEMBERS SHALL BE SHEARED, FORMED, PUNCHED, WELDED, AND PAINTED BY THE MANUFACTURER. ALL SHOP CONNECTIONS SHALL BE WELDED IN CONFORMANCE WITH STANDARDS BASED UPON THE CURRENT EDITION OF ANSI/AWS D1.1. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED AS PROVIDED IN THE CODE.

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GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND 2018 INTERNATIONAL BUILDING CODE (IBC).
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3. PROVIDE ISOLATION OF DISSIMILAR MATERIALS

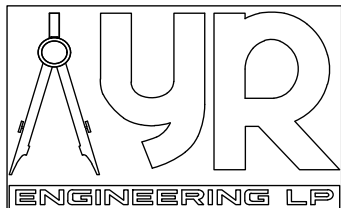
DESIGN CRITERIA:

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: Rp=3.0
AMPLIFICATION FACTOR: Ap=2.5



Yosimar Ramos
YOSIMAR RAMOS
R.C.E. 89832
LIC. EXP 06/30/23

PREPARED BY:



YR ENGINEERING LP
424 E. MAITLAND ST. STE. A
ONTARIO, CA 91761
PHONE: (626) 374-5881
EMAIL: YRAMOS@YRENGINEERING.COM

WINLOADS PER ASCE 7-16:

(29.3-1)	F=q _s *G*C _e *A _e	(26.10-1)	q _s = 0.00256*K _t *K _z *K _{sd} *K _e *V ²
	Risk Category: II		
(26.5)	Wind Speed (V):	150	mph per ATC Council
(Table 26.6-1)	Directional Fac. (K _d):	0.85	(Table 26.6-1)
(26.7)	Exposure Category:	C	
(26.8.2)	Topo Fac. (K _z):	1	(unless unusual terrain)
(26.9)	Ground Elev. Fac. (K _g):	1	(for all elevation)
(26.11)	Gust Effect Fac (G):	0.85	
	s (height of affected area)	3.45	ft
	h (height)	5.2	ft
	B (width of affected area)	2.43	ft
	s/h=	0.66	
	B/s=	0.70	
	Force Coefficient (C _f):	1.692	(Table 29.3-1)
	Velocity pressure exposure coefficient (K _e):		
	for s/h=1, add 10%	ASCE fig. 29.4-1 therefore:	1.0

Structure Component	Height at section c.g. ft	(Table 26.10-1) K _e factor	q _s psf	q _s *G*C _e psf	A _r ft ²	Shear lb	Wind Moment lb-ft
1	0.25	0.85	41.62	59.87	2	120	30
2	1.04	0.85	41.62	59.87	2	120	125
3	3.47	0.85	41.62	59.87	8.37	501	1799
Forces at finish grade							
					12	741	1893

DIRECT BURIAL FOOTING:

M _u :	1.89	k-ft	(0.6Mu):	1.14	k-ft	w:	1.3	IBC 1805.3.2
V _u :	0.74	kips	(0.6Vu):	0.44	kips			
P:	0.58	kips	S1:	5x3/3		326.63	psf	IBC 1806.1
Base	2	ft dia.						A1806.3.4
Depth	3.67	ft deep	A:	2.34*P/(51x3)		2.07	ft	IBC 1807.3.2.1
h	2.56	ft						
S	267	psf/ft	d:	0.5A(1+(1+(4.36hA)))		3.65	ft	
IBC Table 1806.2								

STEEL COLUMN DESIGN:

F _y :	46	ksi	Area of Sign:	12	ft ²	M _u :	1.89	k-ft
E:	29000	ksi	Wind Load	59.87	psf	V _u :	0.74	kips
Square Member Design								
Size H (in):	3		h/t _w :	14.2				
Size B (in):	6		b/t _w :	31.4				
t (in):	3/16		K _L /r _w :	100.7				
Length (ft):	5.25		F _{cr} :	28.23	ksi (E3-4)			
K _L :	2		Max K _L /r _w :	100.7				
A _g (in ²):	3.02		4.71sqrt(E/F _y):	118.3				
r (in):	1.25		Use:	Eq. 1	Governs			
z (in ³):	3.57		F _{cr} :	Eq. 1	23.25	(E3-2)		
s (in ³):	3.15			Eq. 2	24.75	(E3-3)		
I (in ⁴):	4.72		Flange: b/t _w :	31.4	< 1.12λ(E/F _y)(λ _p)=	28	False, Try Other	
wt (lb):	58			b/t _w :	31.4	< 1.40λ(E/F _y)(λ _r)=	35	True Section is Non Compact
be:	2.97		Web: h/t _w :	14.2	< 2.42λ(E/F _y)(λ _p)=	61	True, Section is Compact	
Se:	3.30			h/t _w :	14.2	< 5.70λ(E/F _y)(λ _r)=	143	False, Try other
LRFD φ=0.90								
Flexural Buckling:			P _n =F _{cr} A _g			φP _n :	63.15	kips (E3-1)
Yield Moment:			M _n =F _y A _g			φM _n :	10.36	k-ft (E3-1)
Plastic Moment:		Compact Shapes	M _n =F _y Z			φM _n :	12.31	k-ft (E3-1)
Local Buckling:		Non Compact Shapes Flange	M _n =M _p -(M _p -F _y S)(3.76/t _w √(F _y /E)-4.0)			φM _n :	11.64	k-ft (E3-1)
Local Buckling:		Non Compact Shapes Web	M _n =M _p -(M _p -F _y S)(0.305/h _w √(F _y /E)-0.738)			φM _n :	13.13	k-ft (E3-1)
Z req:	0.55	in ³	Choose Size (Z):	3.57	in ³	OKAY	0.15	

BASE PLATE DESIGN:

Base Plate Check				Size:				Nominal Yield Moment			
M _u :	1.89	k-ft	t:	0.75	in			M _n =F _y *Z:	10.13	k-in	
	22.72	k-in	S:	8	in			φ _b :	0.9		
V _u :	0.74	k	Arm:	2.5	in			φ _b M _u :	9.11	k-in	
			b _{eff} :	2	in			Demand/Capacity:	0.39	OKAY	
			n:	2	bolts						
T _{gip} :	2.84	k	Material Steel A36					Nominal Yield Moment			
T _b :	1.42	k/bolt	F _{tuw} :	36	ksi			M _n =F _y *Z:	10.13	k-in	
M _u PL:	3.5	k-in	F _{tyw} :	36	ksi			φ _b :	0.9		
			F _{cyw} :	36	ksi			φ _b M _u :	9.11	k-in	
S (in ³):	0.188		K _t :	1				Demand/Capacity:	0.39	OKAY	
Z (in ³):	0.281										

STARBUCKS DRIVE THRU SIGNAGE

PRE-MENU BOARD

VARIOUS LOCATIONS, CALIFORNIA

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR	JOB NO: 2131-00	SHEET: 1 OF 1
DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-12-21	

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date: 06-30-22
Drawn by: L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts ☐ 277 Volts



2101 Carrillo Privado, Ontario, CA 91761
(909) 930-0303 Fax: (909) 930-0308
E-mail: design@signindustries.tv
Web: www.signindustries.tv

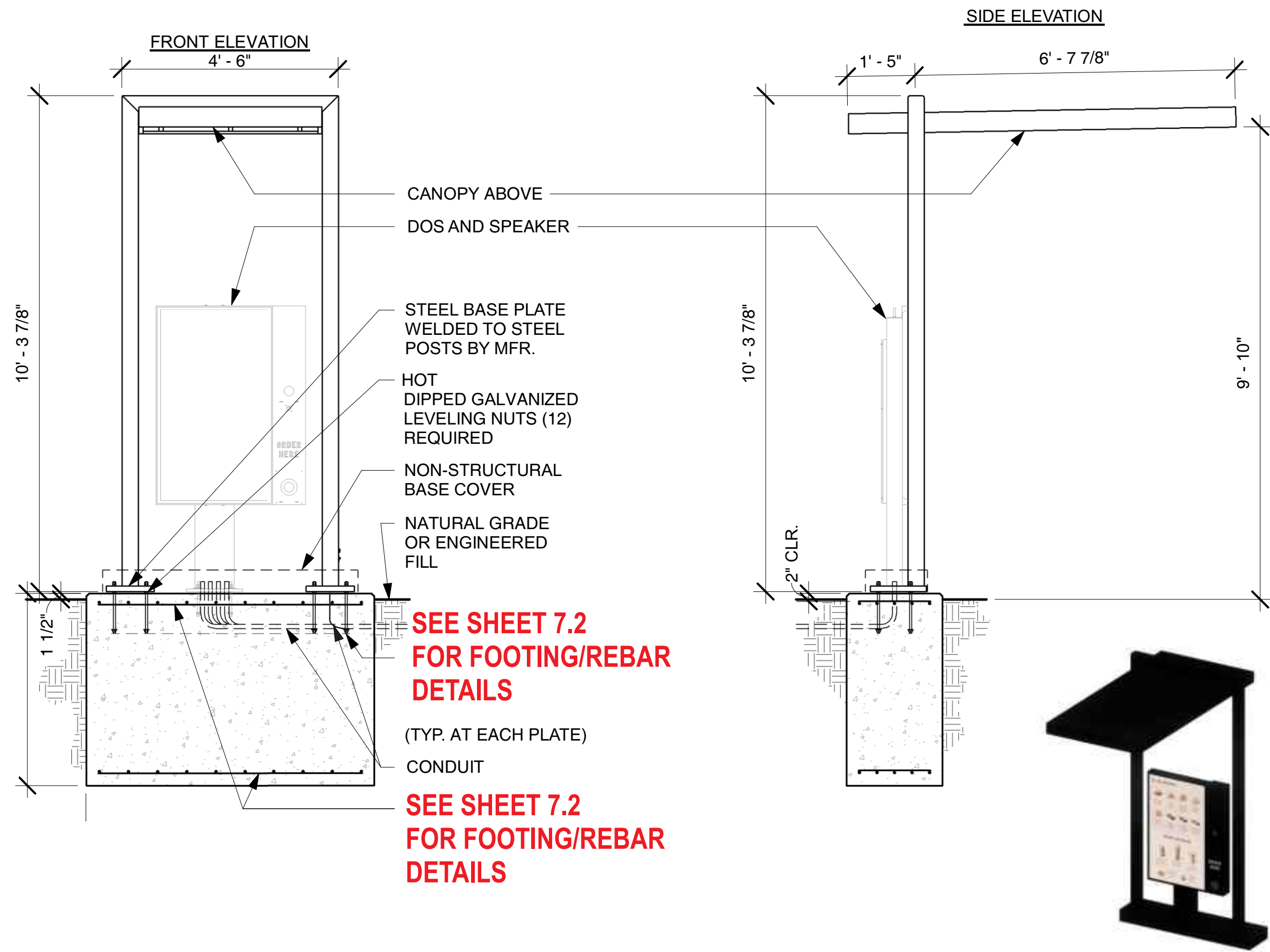
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Drawing No

22-267



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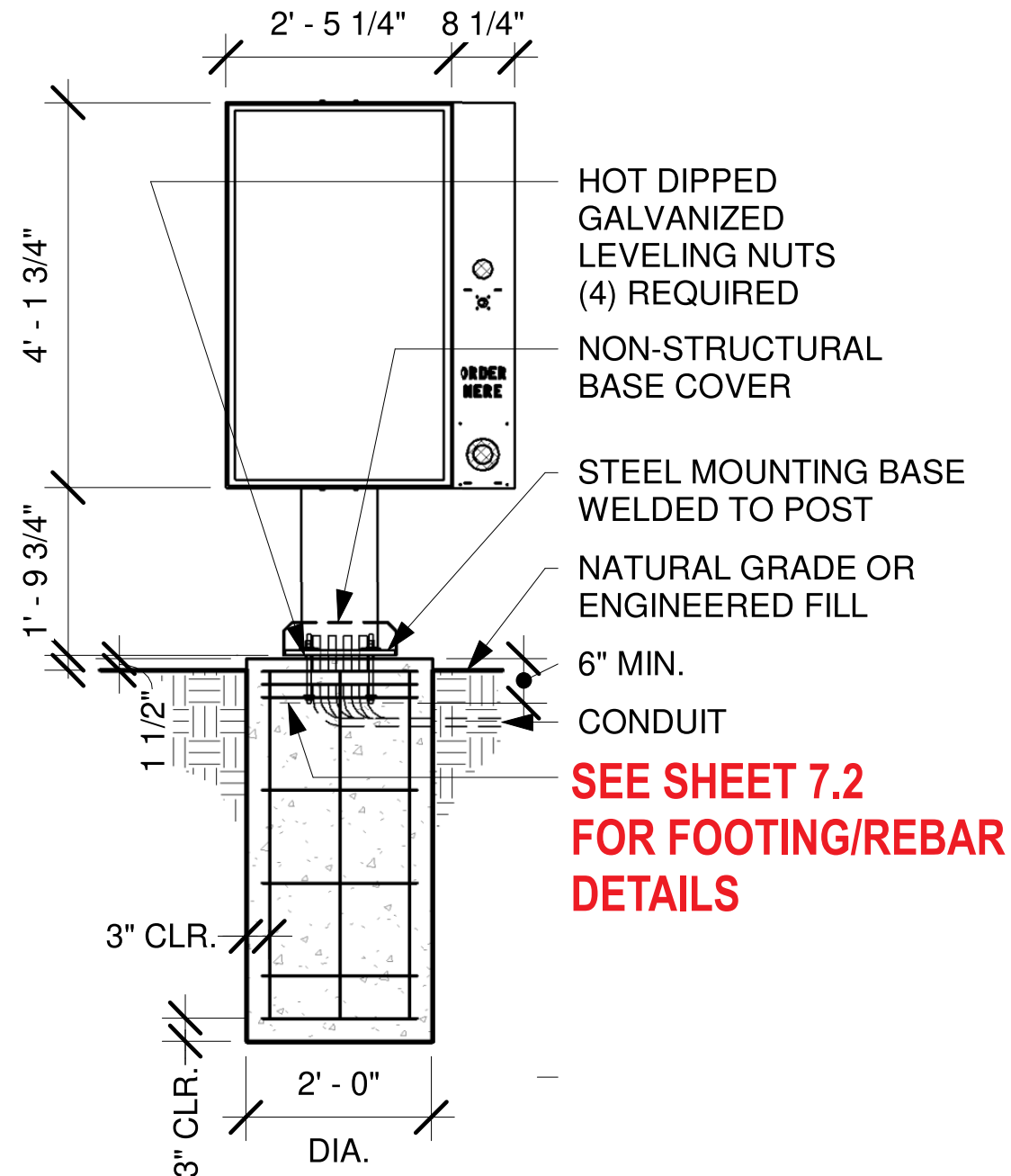


1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

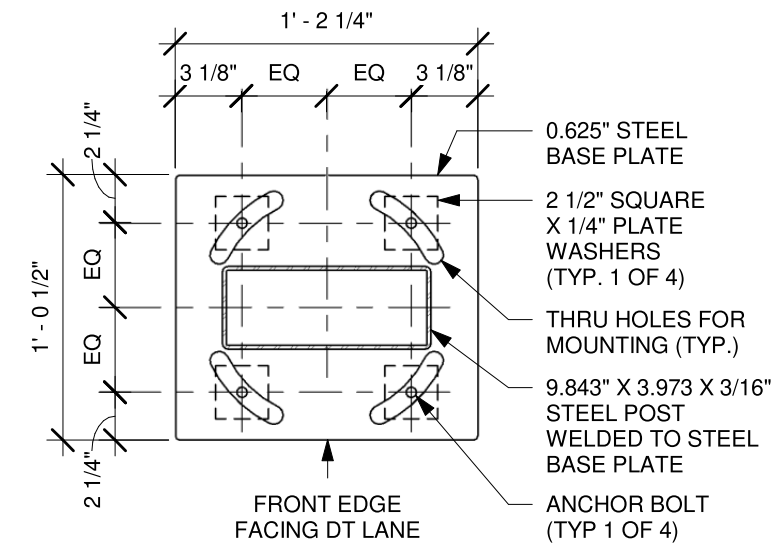
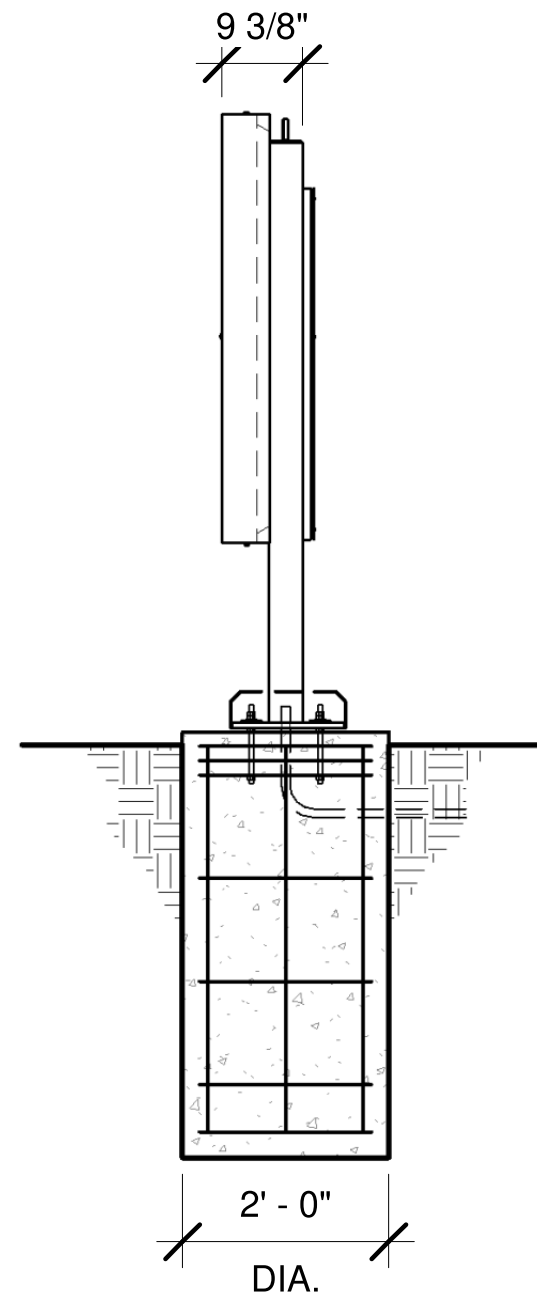


TM

FRONT ELEVATION



SIDE ELEVATION



1 BASE PLATE

Scale: 1 1/2" = 1'-0"

Scale: 1 1/2" = 1'-0"



ORDERING SCREEN WITH POST

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date: 06-30-22 Drawn by: L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts ☐ 277 Volts



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Drawing No

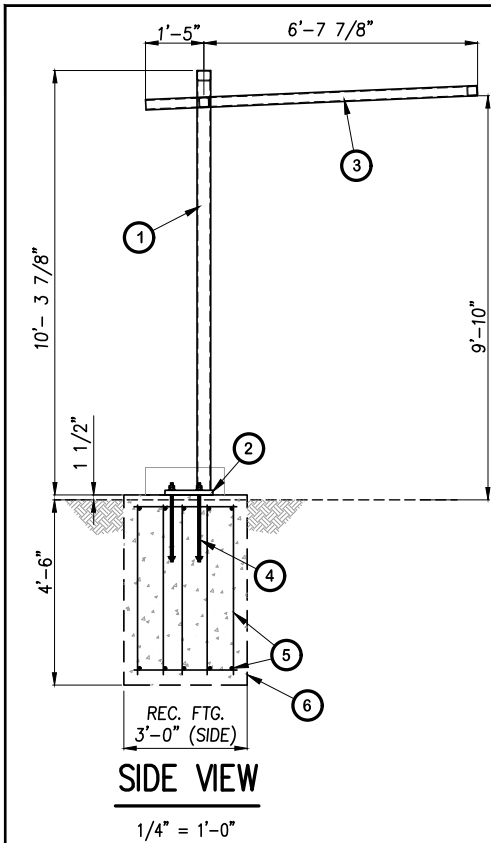
22-267

2

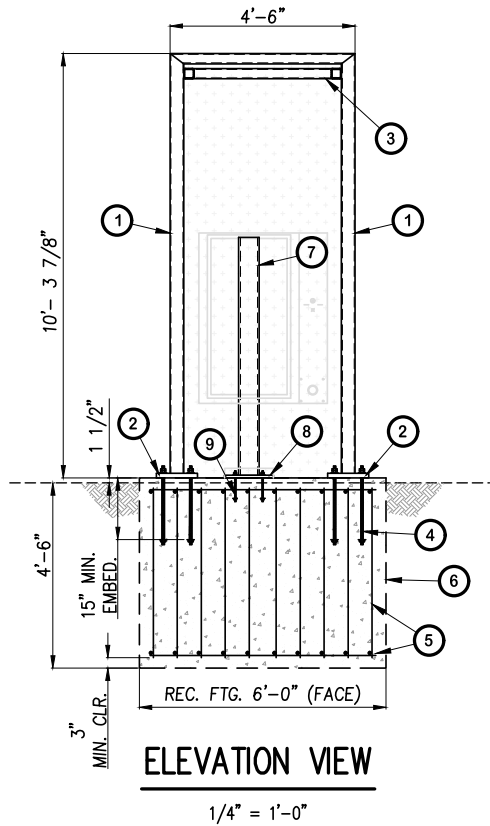
Page: 7.1

G.1 DRIVE THRU DIGITAL ORDER SCREEN W/ POST~ Qty (1)
INSTALLATION ONLY

NTS



- 1/4" = 1'-0"
- 1 (2) 4"x4"x1/4" SQ. HSS FRAME PER ELEVATION AND BASE PLATE DETAIL HEREON.
- 2 (2) 1 3/8" THK. STEEL BASE PLATE (12"x14") PER BASE PLATE DETAIL HEREON.
- 3 3"x3"x1/4" SQ. HSS FRAME PER ELEVATION HEREON.
- 4 TOTAL (8) 3/4"Ø THREADED HOT DIPPED GALVANIZED ANCHOR RODS (ASTM F1554 GRADE 55) WITH GALVANIZED HARDWARE PER ELEVATION AND BASE PLATE DETAILS HEREON.
- 5 HORIZ: (5) #5 LONG LENGTH AND (10) #5 SHORT LENGTH AT TOP AND BOTTOM EACH WAY
VERT: (12) #5 BAR SPACES EVENLY AROUND PERIMETER CLEARANCE 3" MIN. TO EDGE OF CONC.
- 6 CONCRETE FOOTING PER PLAN AND SPECIFICATIONS HEREON.
- 7 9.873"x3.93"x3/16" SQ. HSS POST
- 8 5/8" THK. STEEL BASE PLATE (12.5"x14.25") PER BASE PLATE DETAIL.
- 9 (4) 1/2"Ø THREADED HOT DIPPED GALVANIZED ANCHOR RODS (ASTM F1554 GRADE 55) WITH GALVANIZED HARDWARE PER ELEVATION AND BASE PLATE DETAIL.

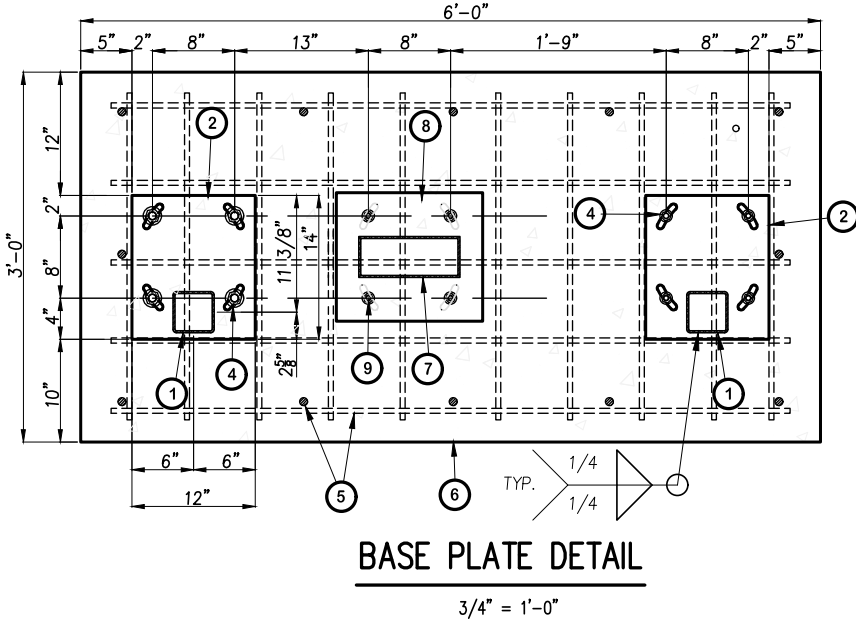


GENERAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND 2018 INTERNATIONAL BUILDING CODE (IBC).
- ANY CONFLICTS BETWEEN THESE DRAWINGS, STANDARDS NOTED HEREIN, PROJECT REQUIREMENTS. AND/OR OTHER REFERENCE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER, WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- PROVIDE ISOLATION OF DISSIMILAR MATERIALS

STEEL:

- SQ/RECT. HSS: ASTM A500, GR. B Fy=46 KSI
- PLATE STEEL: ASTM A36 Fy=36 KSI
- STRUCTURAL STEEL MEMBERS SHALL BE SHEARED, FORMED, PUNCHED, WELDED, AND PAINTED BY THE MANUFACTURER. ALL SHOP CONNECTIONS SHALL BE WELDED IN CONFORMANCE WITH STANDARDS BASED UPON THE CURRENT EDITION OF ANSI/AWS D1.1. WELDERS AND WELDING OPERATORS SHALL BE QUALIFIED AS PROVIDED IN THE CODE.



DESIGN CRITERIA:

- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: Rp=3.0
AMPLIFICATION FACTOR: Ap=2.5

CONCRETE:

- DESIGN AND CONSTRUCTION IN COMPLIANCE TO ACI 318-14.
- STEEL REINFORCEMENT IN CONCRETE ASTM A615 GRADE 60.
- COMPRESSIVE STRENGTH AT 28 DAYS: f'c=2500 PSI MIN.
- PROVIDE A MINIMUM 3" CONCRETE COVER OVER ALL EMBEDDED STEEL.
- CONCRETE MUST BE POURED AGAINST UNDISTURBED EARTH SOIL.
- SOIL PASSIVE PRESSURE PER CBC CLASS 5 (100 PCF).

WINLOADS PER ASCE 7-16:

Directional Procedure:											
(29.3-1) F=q _s *G*C _r *A _r	(26.10-1) q _s = 0.00256*K _z *K _{dt} *K _e *K _g *V ²										
Risk Category:	II										
Wind Speed (V):	150	mph per ATC Council									
(26.5) Directional Fac. (K _d):	0.85	(Table 26.6-1)									
(26.6-1) Exposure Category:	C										
(26.7) Topo Fac. (K _e):	1	(unless unusual terrain)									
(26.8.2) Ground Elev. Fac. (K _g):	1	(for all elevation)									
(26.9) Gust Effect Fac (G):	0.85										
(26.11) s (height of affected area)	10.33	ft									
h (height)	10.33	ft									
B (width of affected area)	4.5	ft									
s/h=	1.00										
B/s=	0.44										
Force Coefficient (C _f):	1.65										
Velocity pressure exposure coefficient (K _e):		(Table 29.3-1)									
for s/h=1, add 10%	ASCE fig. 29.4-1 therefore:	1.1									
<table><tr><td>(Table 26.10-1)</td><td>q_s</td><td>q_s*G*C_r</td></tr><tr><td>K_e factor</td><td>psf</td><td>psf</td></tr><tr><td>0.85</td><td>41.62</td><td>58.37</td></tr></table>			(Table 26.10-1)	q _s	q _s *G*C _r	K _e factor	psf	psf	0.85	41.62	58.37
(Table 26.10-1)	q _s	q _s *G*C _r									
K _e factor	psf	psf									
0.85	41.62	58.37									

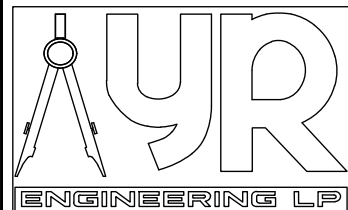
BASE PLATE DESIGN:

Mu= 6.00 k-ft	Size:	t: 1.375 in	Nominal Yield Moment:
Vu= 72.00 k-in	S: 8 in	Arm: 8 in	Mnp=Fy*Z: 68.06 k-in
Tgrp= 9.00 kip	b eff: 4 in	n: 2 bolts	phi*Mnp: 61.26 k-in
Tb= 4.50 kip/bolt	Steel A36	Ftuw: 36 ksi	Demand/Capacity: 0.59 OKAY
Mu PL= 36.0 k-in	Ftyw: 36 ksi	Fcyw: 36 ksi	Nominal Yield Moment:
S (in³)= 1.260	Kt: 1		Mnp=Fy*Z: 68.06 k-in
Z (in³)= 1.891			phi*Mnp: 61.26 k-in
			Demand/Capacity: 0.59 OKAY



Yosimar Ramos
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R.C.E. 89832
LIC. EXP 06/30/23

PREPARED BY:



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EMAIL: YRAMOS@YRENGINEERING.COM

STARBUCKS DRIVE THRU SIGNAGE DIGITAL ORDER SCREEN CANOPY VARIOUS LOCATIONS, CALIFORNIA

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR	JOB NO: 2131-00	SHEET: 1 OF 1
DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-13-21	12-27-21

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date: 06-30-22
Drawn by: L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts ☐ 277 Volts



2101 Carrillo Privado, Ontario, CA 91761
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E-mail: design@signindustries.tv
Web: www.signindustries.tv

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Drawing No

22-267

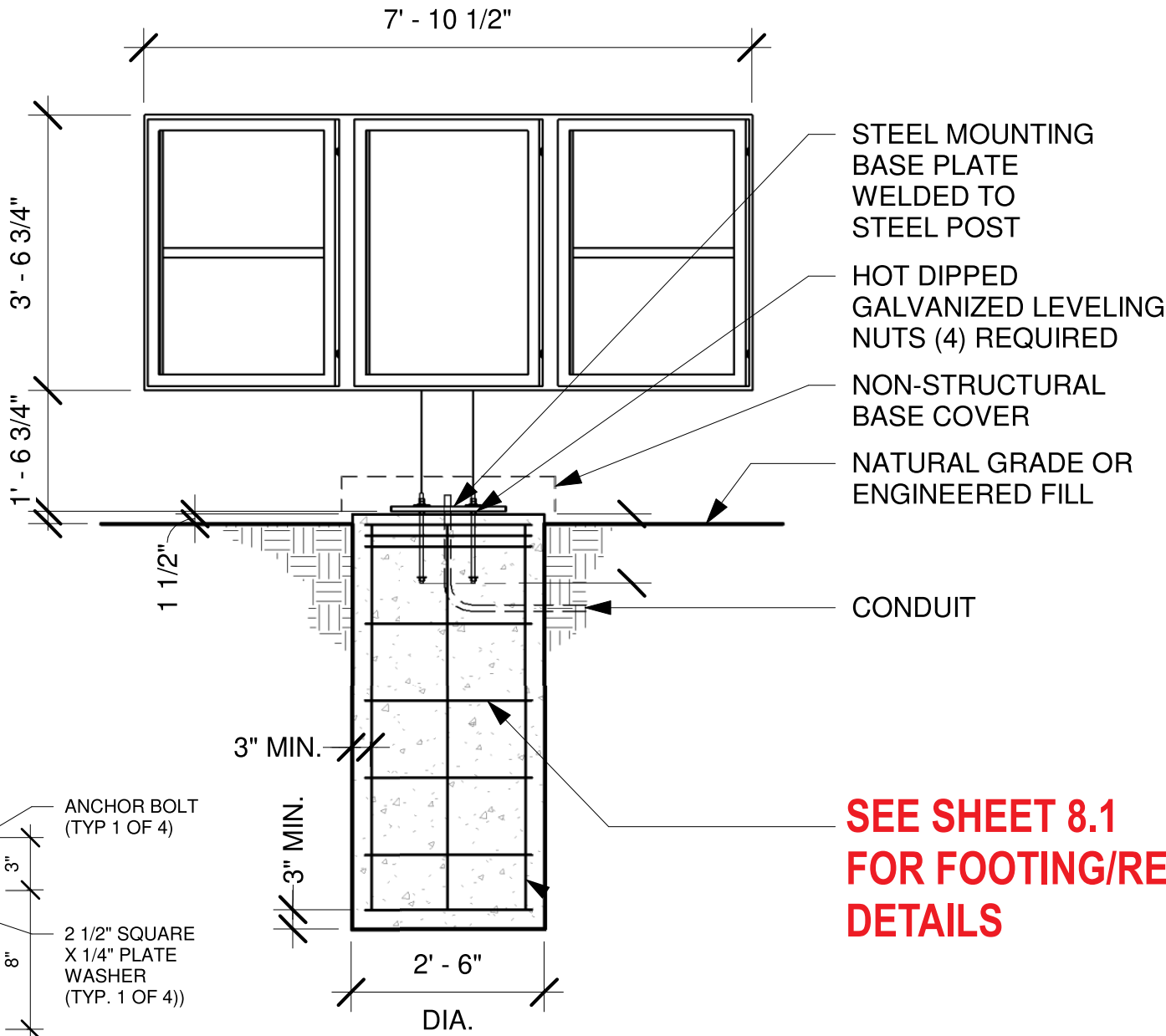


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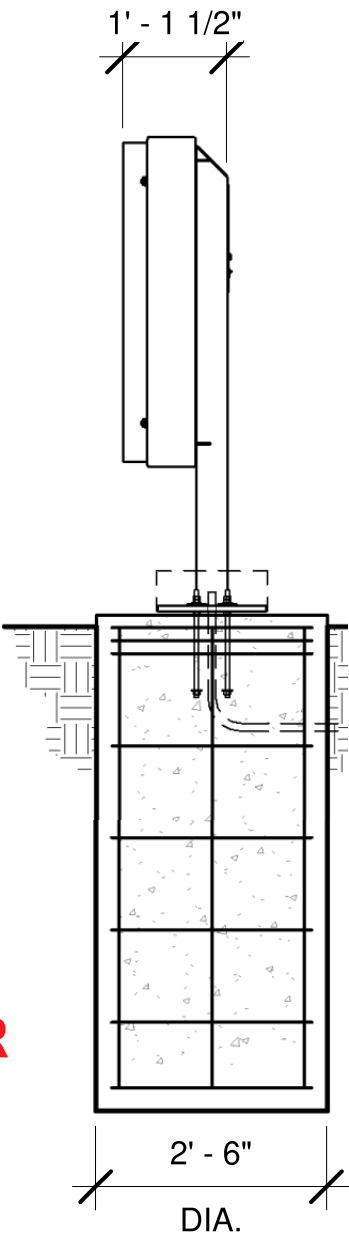


5- PANEL MENU SIGN

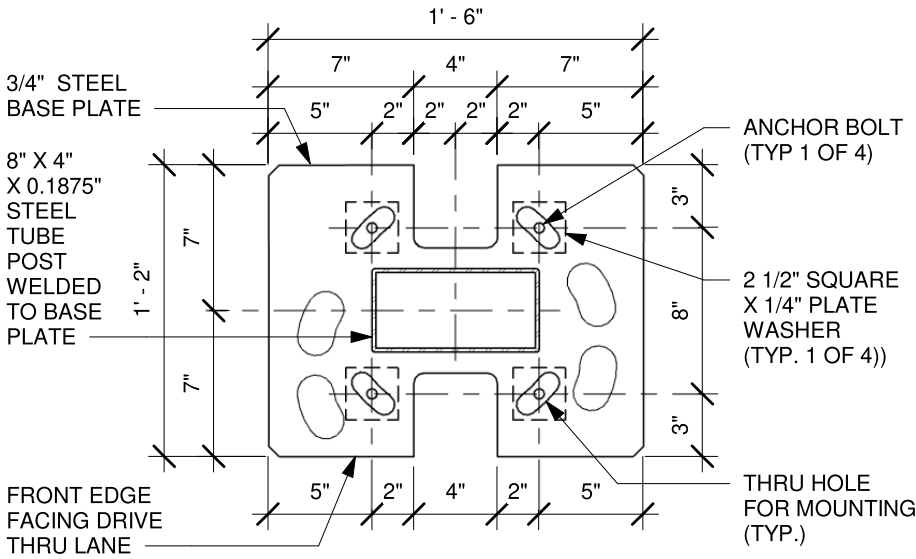
FRONT ELEVATION



SIDE ELEVATION



SEE SHEET 8.1
FOR FOOTING/REBAR
DETAILS



2 BASE PLATE


Scale: 1 1/2" = 1'-0"

H DRIVE THRU 5-PANEL MENU SIGN~ Qty (1)
INSTALLATION ONLY

Scale: 1" = 3/4"

Sq. Ft.
36

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date:

06-30-22


Drawn by:

L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
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Electrical Requirement:

☐ 120 Volts ☐ 277 Volts




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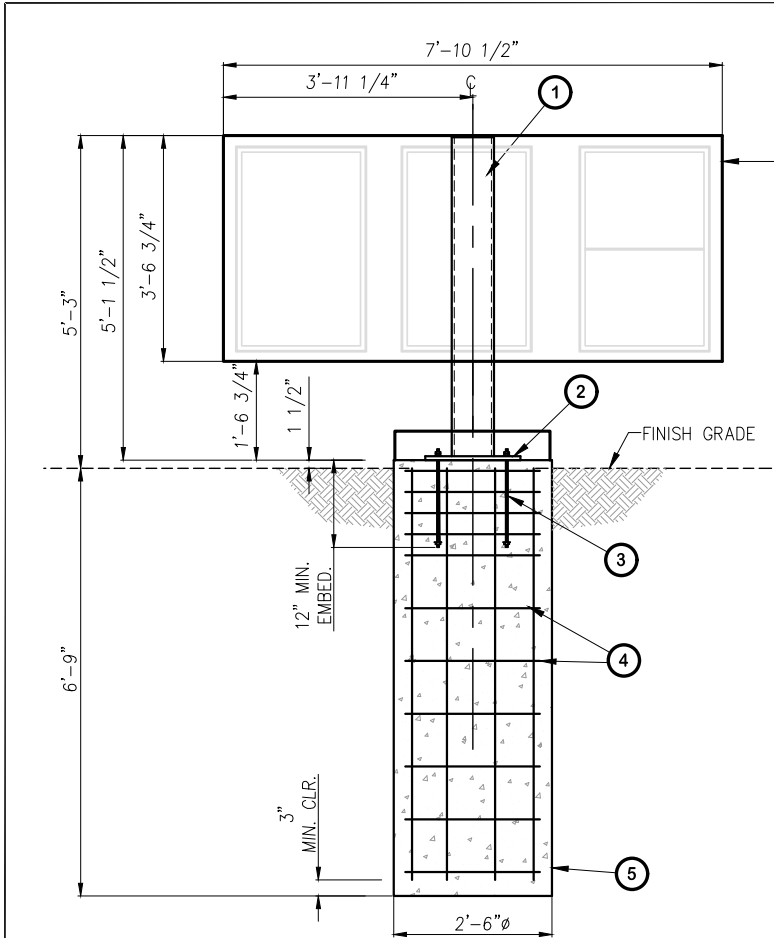
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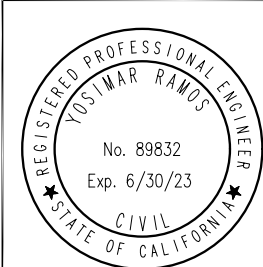
8.0



ELEVATION VIEW

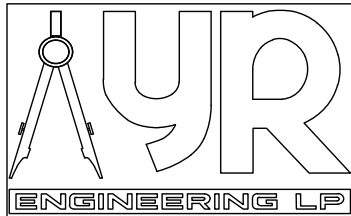
3/8" = 1'-0"

- 1 8"x4"x3/16" SQ. HSS FRAME PER ELEVATION AND BASE PLATE DETAIL HEREON.
- 2 3/4" THK. STEEL BASE PLATE (18"x14") PER BASE PLATE DETAIL HEREON.
- 3 (4) 1/2"Ø THREADED HOT DIPPED GALVANIZED ANCHOR RODS (ASTM F1554 GRADE 55) WITH GALVANIZED HARDWARE PER ELEVATION AND BASE PLATE DETAIL HEREON.
- 4 HORIZ: (5) #3 TIES AT 3" O.C. AND THEN (6) #3 TIES AT 10" O.C.
VERT: (8) #5 BARS SPACES EVENLY AROUND PERIMETER CLEARANCE 3" MIN. TO EDGE OF CONC.
- 5 CONCRETE FOOTING PER PLAN AND SPECIFICATIONS HEREON.



Yosimar Ramos
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R.C.E. 89832
LIC. EXP 06/30/23

PREPARED BY:



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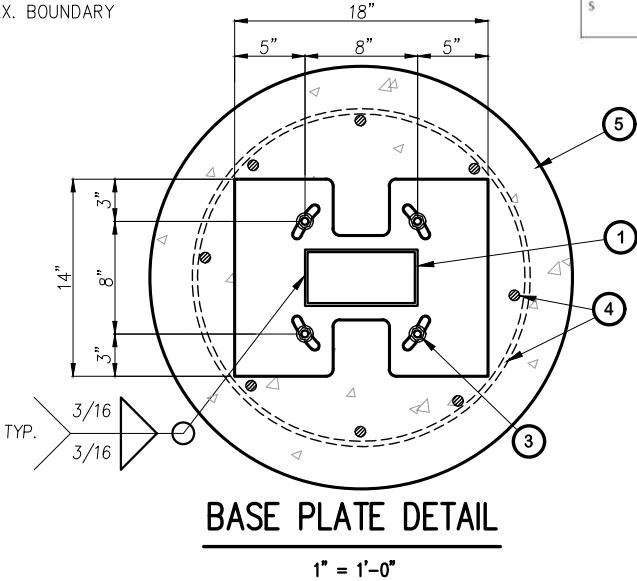
STARBUCKS DRIVE THRU SIGNAGE
5-PANEL MENU BOARD
VARIOUS LOCATIONS, CALIFORNIA

PREPARED FOR: SIGN INDUSTRIES, INC.

CHECKED BY: YR	JOB NO: 2131-00	SHEET: 1 OF 1
DISREGARD PRINTS BEARING EARLIER REVISION DATES	10-11-21	

DIRECT BURIAL FOOTING:

Mu:	5.68 k-ft	(0.6Mu):	3.41 k-ft	w:	1.3	IBC 1605.3.2
Vu:	1.83 kips	(0.6Vu):	1.10 kips			
P	1.42 kips	SI:	Ssd/3	445.00	psf	IBC 1806.1
Base	2.5 ft dia.			1068.00		IBC 1806.3.4
Depth	5.00 ft deep	A:	2.34*P/(S1xb)	2.99 ft		IBC 1807.3.2.1
h	3.11 ft					
S	267 psf/ft	d:	0.5A(1+v)/(1+4.36hA)	5.02 ft		



DESIGN CRITERIA:

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH ASCE 7-16
BASIC WIND SPEED: 150 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
SITE CLASS: D
OCCUPANCY CATEGORY: II
SEISMIC DESIGN CATEGORY: D
IMPORTANCE FACTOR: 1.0
RESPONSE MODIFICATION FACTOR: Rp=3.0
AMPLIFICATION FACTOR: Ap=2.5

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE 2019 CALIFORNIA BUILDING CODE (CBC), AND 2018 INTERNATIONAL BUILDING CODE (IBC).
2. ANY CONFLICTS BETWEEN THESE DRAWINGS, STANDARDS NOTED HEREIN, PROJECT REQUIREMENTS. AND/OR OTHER REFERENCE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER, WHERE CONFLICTS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
3. PROVIDE ISOLATION OF DISSIMILAR MATERIALS

WINLOADS PER ASCE 7-16:

(29.3-1)	F=q _s *G*C _r *A _s	(26.10-1)	q _t = 0.00256*K _z *K _{dt} *K _e *K _g *V ²
	Risk Category:	II	
(26.5)	Wind Speed (V):	150	mph per ATC Council
(Table 26.6-1)	Directional Fac. (K _d):	0.85	(Table 26.6-1)
(26.7)	Exposure Category:	C	
(26.8.2)	Topo Fac. (K _z):	1	(unless unusual terrain)
(26.9)	Ground Elev. Fac. (K _g):	1	(for all elevation)
(26.11)	Gust Effect Fac (G):	0.85	
	s (height of affected area)	3.56	ft
	h (height)	5.25	ft
	B (width of affected area)	7.88	ft
	s/h=	0.68	
	B/s=	2.21	
	Force Coefficient (C _f):	1.61	
	Velocity pressure exposure coefficient (K _e):	(Table 29.3-1)	
	for s/h=1, add 10%	ASCE fig. 29.4-1 therefore:	1.0

Structure Component	Height at section c.g. ft	(Table 26.10-1) K _e factor	q _s psf	q _s *G*C _r psf	A _r ft ²	Shear lb	Wind Moment lb-ft
1	0.23	0.85	41.62	56.94	2	114	26
2	1.01	0.85	41.62	56.94	2	114	115
3	3.47	0.85	41.62	56.94	28.05	1597	5543
Forces at finish grade						32	1825 5684

STEEL COLUMN DESIGN:

F _y :	46 ksi	Area of Sign:	32 ft ²	Mu:	5.7 K-ft
E:	29000 ksi	Wind Load	56.94 psf	Vu:	1.8 kips
Square Member Design					
Size H (in)	4	h/t=	19.9		
Size B (in)	8	h/t=	42.9		
t (in)	3/16	KL/r=	74.5		
Length (ft)	5.25	F _e =	51.60	ksi (E3-4)	
K:	2	Max KL/r=	74.5		
A _c (in ²)	4.06	4.71sqrt(E/F _y)=	118.3		
r (in)	1.69	Use:	Eq. 1	Governs	
Z (in ³)	6.50	F _{cr} =	Eq. 1	31.67	(E3-2)
S (in ³)	5.81		Eq. 2	45.25	(E3-3)
t (in ³)	11.63	Flange: h/t=	42.9	< 1.12V(E/F _y)(λ _p)=	28 False, Try Other
wt (lb)	78	b/t=	42.9	< 1.40V(E/F _y)(λ _r)=	35 True Section is Non Compact
b _{ee}	4.71	Web: h/t=	19.9	< 2.42V(E/F _y)(λ _p)=	61 True, Section is Compact
S _{xx}	7.61	h/t=	19.9	< 5.70V(E/F _y)(λ _r)=	143 False, Try other
LRFD φ=0.90					
Flexural Buckling:		P _n =F _{cr} A _g		φP _n =	115.83 kips (E3-1)
Yield Moment:		M _n =M _p =F _y S		φM _n =	20.06 k-ft (E3-1)
Plastic Moment:	Compact Shapes	M _n =M _p =F _y S		φM _n =	22.42 k-ft (E3-1)
Local Buckling:	Non Compact Shapes	M _n =M _p =F _y S		φM _n =	17.47 k-ft (E3-1)
Z req:	1.65 in ³	Choose Size (Z):	6.50 in ³	OKAY	0.253

BASE PLATE DESIGN:

Base Plate Check			
Mu=	5.684 k-ft	Size:	t: 0.75 in
Vu=	1.83 kip	S:	8 in
T _{grp}	8.53 kip	Arm:	2 in
T _b	4.26 kip/bolt	b _{eff} :	4 in
Mu PL=	8.5 k-in	n:	2 bolts
		Steel A36	
		F _t u _w :	36 ksi
		F _t y _w :	36 ksi
		F _c y _w :	36 ksi
		K _t :	1
S (in ³)=	0.375	Nominal Yield Moment	M _n =F _y *Z:
Z (in ³)=	0.563		20.25 k-in
		φ _t :	0.9
		φ _b M _n :	18.23 k-in
		Demand/Capacity:	0.47 OKAY
		Nominal Yield Moment	M _n =F _y *Z:
			20.25 k-in
		φ _t :	0.9
		φ _b M _n :	18.23 k-in
		Demand/Capacity:	0.47 OKAY

Project:



Location:

449 E 4TH ST
BEAUMONT, CA 92223

Client Approval:

Date of Approval:

Sales Rep:

Date:

06-30-22

Drawn by:

L.S.

1	07-19-22	L.S.
2	11-10-22	L.S.
3		
4		
5		
6		

Electrical Requirement:

☐ 120 Volts

☐ 277 Volts



2101 Carrillo Privado, Ontario, CA 91761
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I REPLACEMENT FACE
Scale: NTS QTY (2)

SPECIFICATIONS

- CABINET: PROVIDED BY OTHERS
- FACES: WHITE FLEX FACE
- GRAPHICS: “STARBUCKS LOGO”: 3M #3630-76 HOLLY GREEN VINYL OVERLAY
“DRIVE THRU” BLACK VINYL OVERLAY

SURVEY REQUIRED PRIOR TO FABRICATION



EXISTING VIEW



PROPOSED VIEW

Project:



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Electrical Requirement:
☐ 120 Volts ☐ 277 Volts

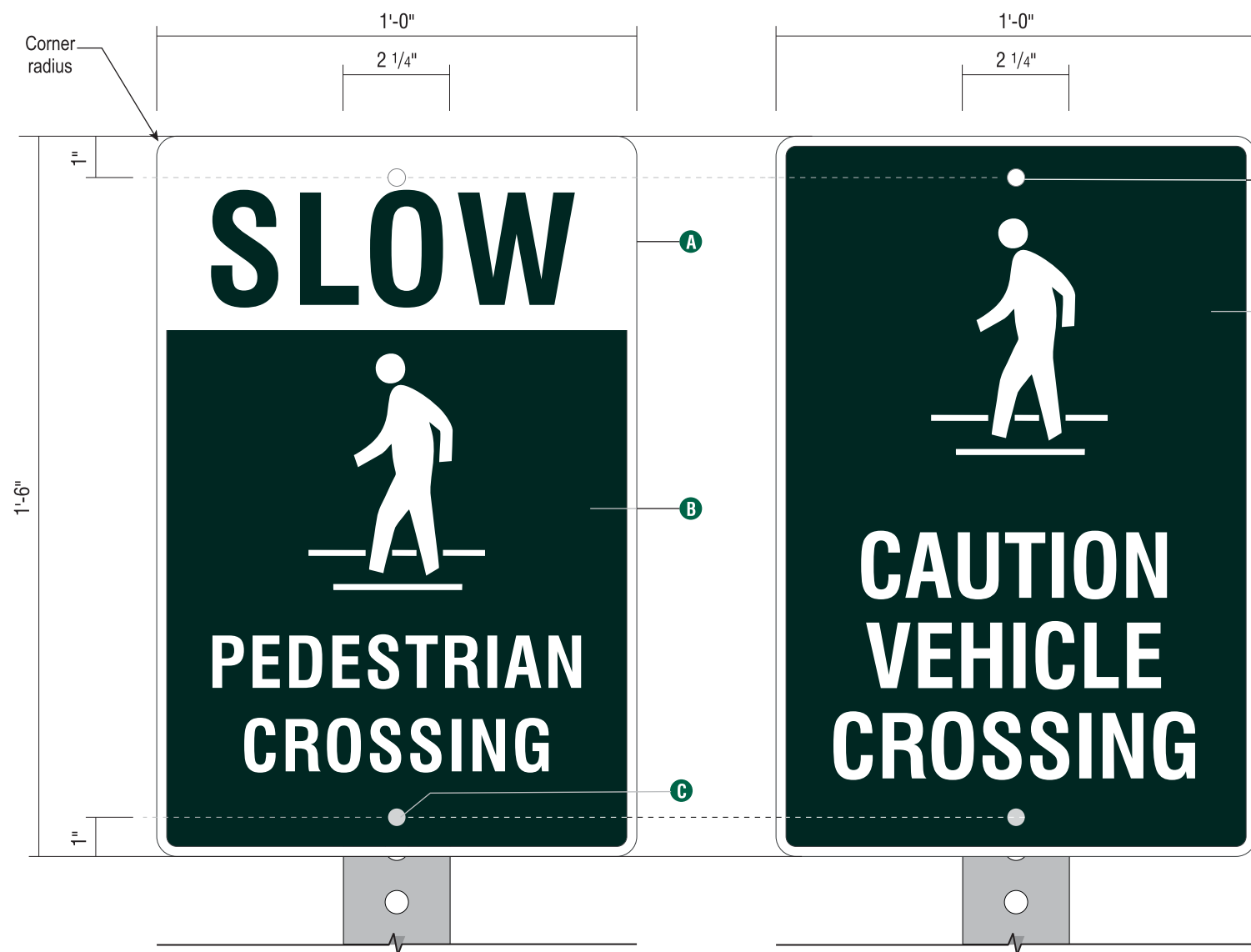


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Drawing No
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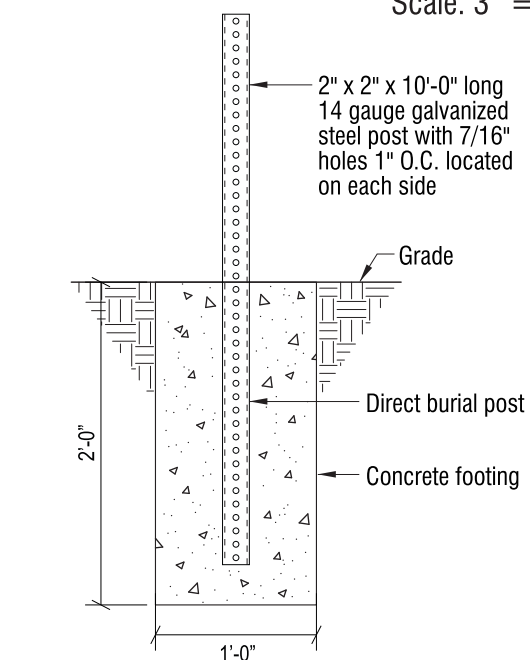


P1 PEDESTRIAN PANEL (QTY-2)
Scale: 3" = 1'

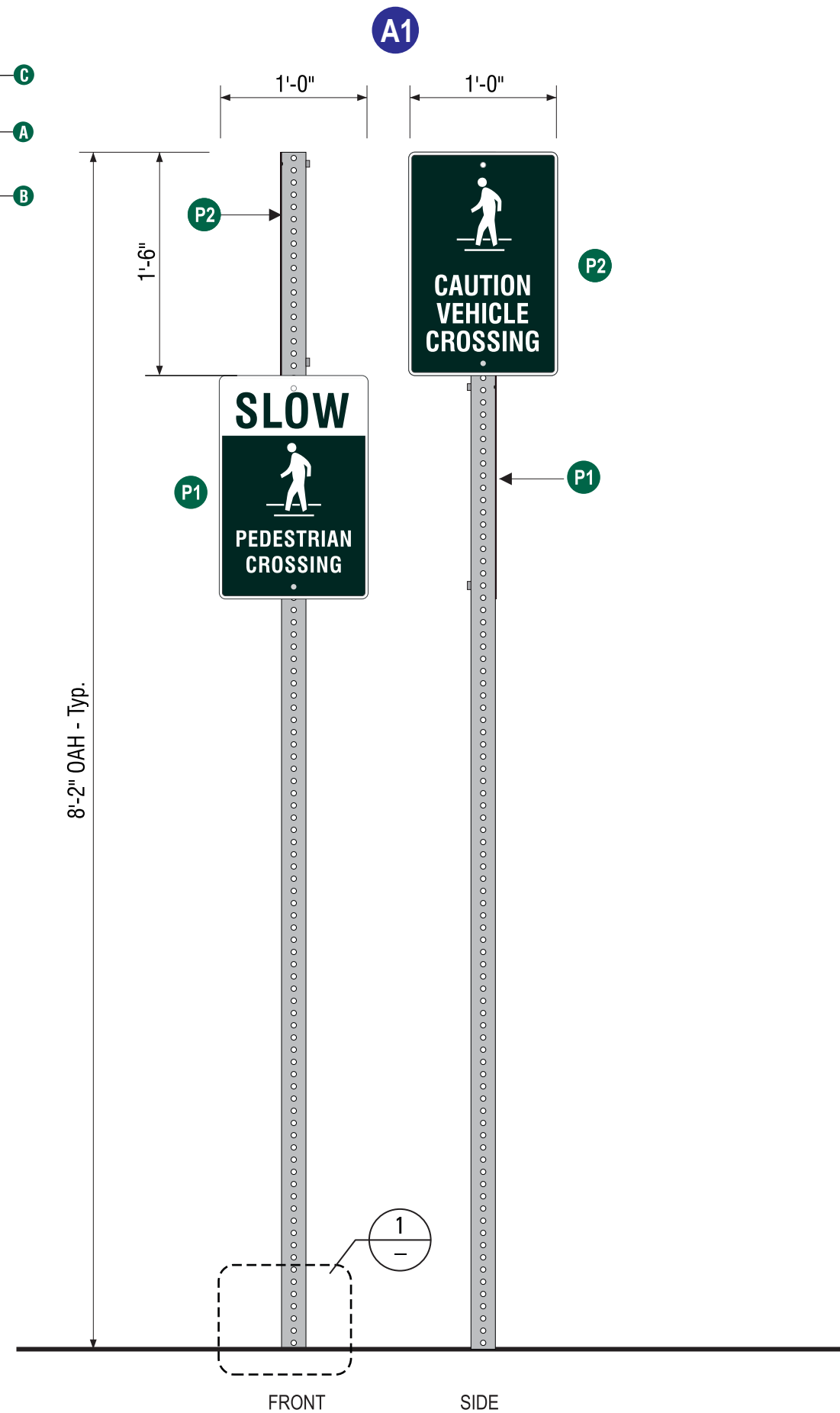
P2 CAUTION VEHICLE PANEL (QTY-2)
Scale: 3" = 1'

- A** Pedestrian panel to be .080 aluminum painted black on the backside. .
- B** Face of panel to be digitally printed to match PMS 560C
- C** Sign panel will be fastened to sign post w/ 2 bolts

QUANTITY (2) POSTS
QUANTITY (4) PANELS



1 DIRECT BURIAL DETAIL
Scale : NTS



Design ID # P1 & P2



Project:



Location:

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