



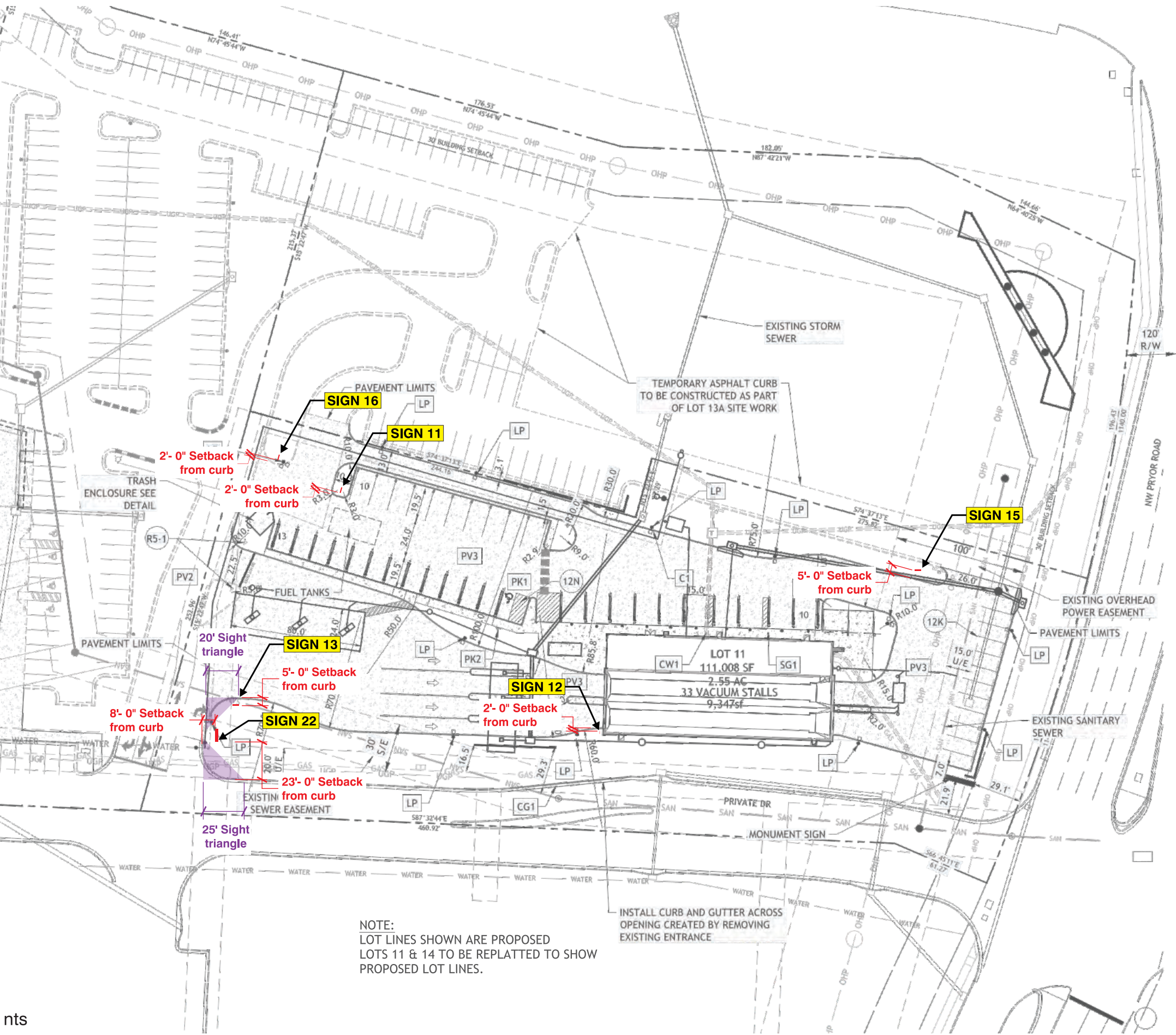
247334-1-11

1000 NW Pryor Road
Lee’s Summit, MO 64081

Revisions	
GED 6.27.25	GED 8.21.25
GED 6.30.25	GED 8.28.25
GED 8.12.25	GED 9.23.25
GED 8.18.25	GED 9.24.25
GED 8.21.25	GED 9.26.25



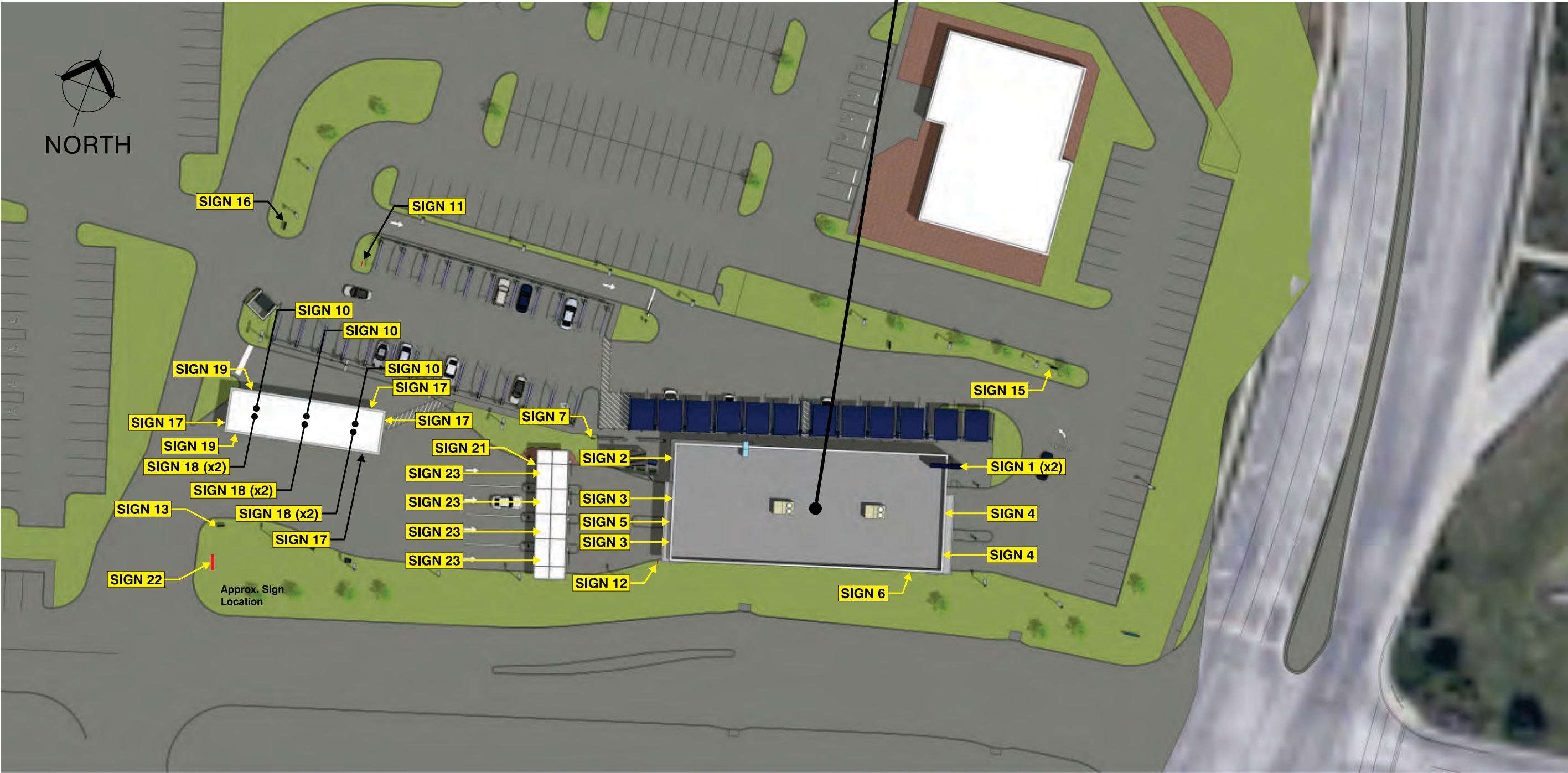
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 9.25.25
Drwg #:	247334-1-11



nts

NOTE:
LOT LINES SHOWN ARE PROPOSED
LOTS 11 & 14 TO BE REPLATTED TO SHOW
PROPOSED LOT LINES.

INSTALL CURB AND GUTTER ACROSS
OPENING CREATED BY REMOVING
EXISTING ENTRANCE



Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11



***NOTE: THERE ARE TWO (2) INSTALLS - ONE ON EACH SIDE OF PYLON WALL**

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Art:	GED 8.21.25
Drwg #:	247334-1-11

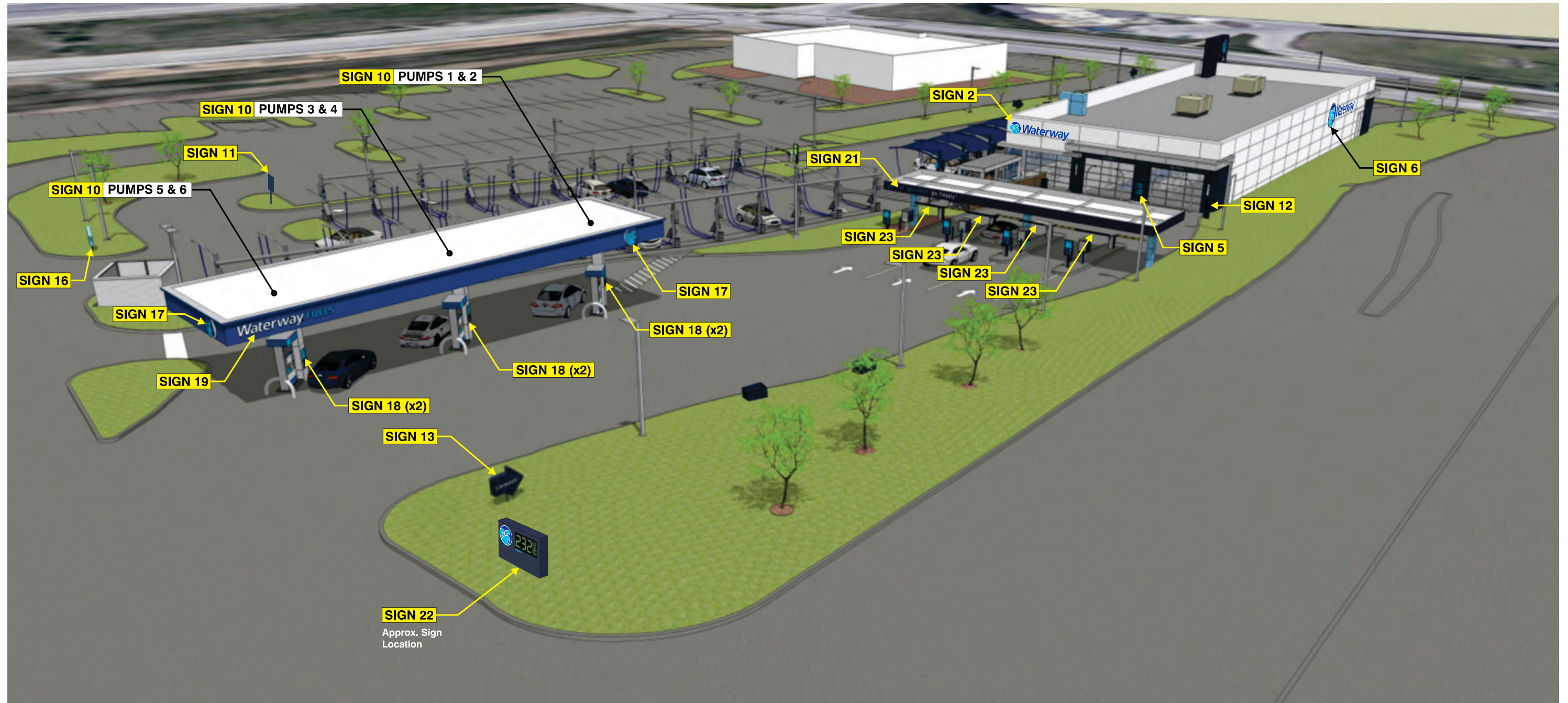


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Sales:	Lisa Koebel
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Sales:	Lisa Koebel
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Art:	GED 8.18.25
Drwg #:	247334-1-11



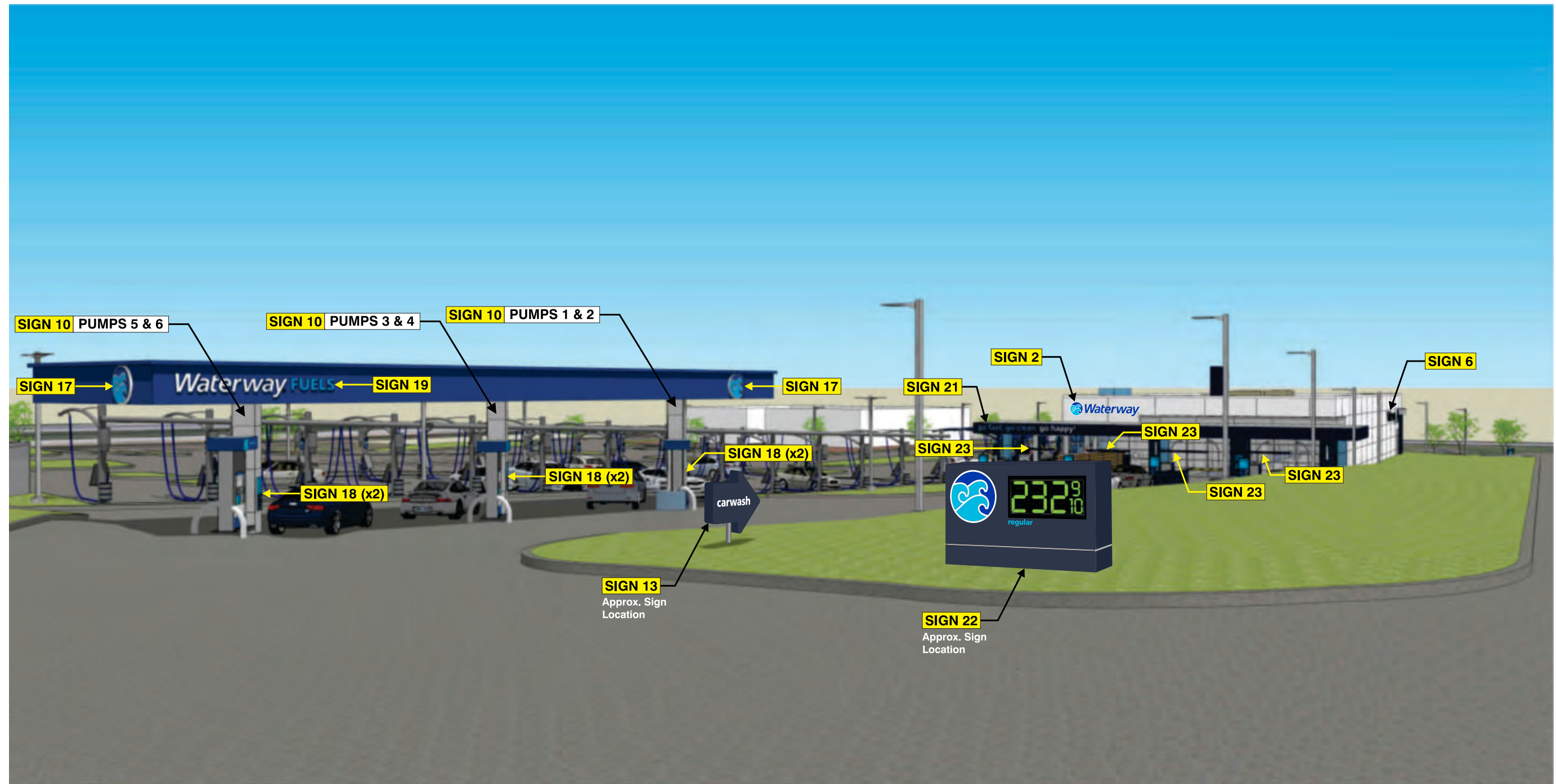
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Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11

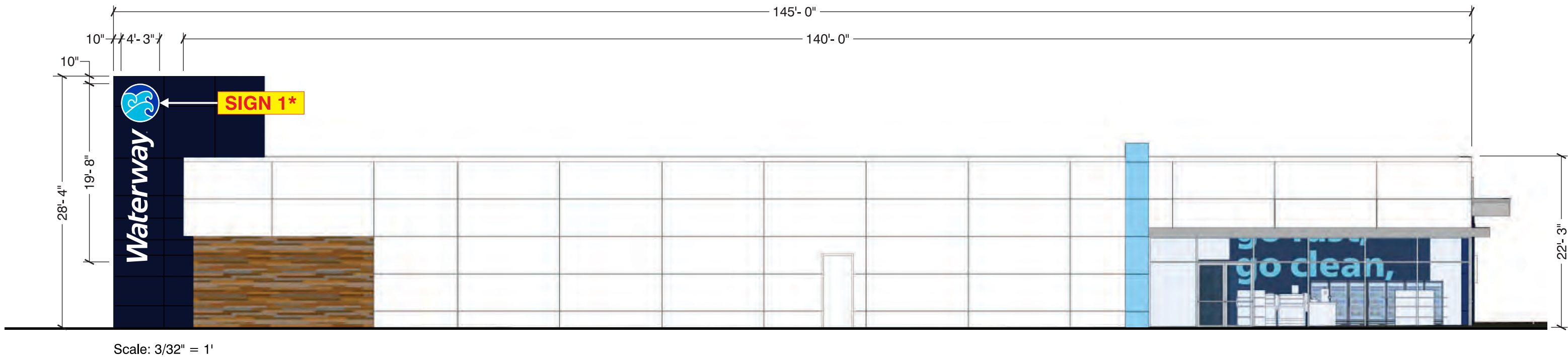


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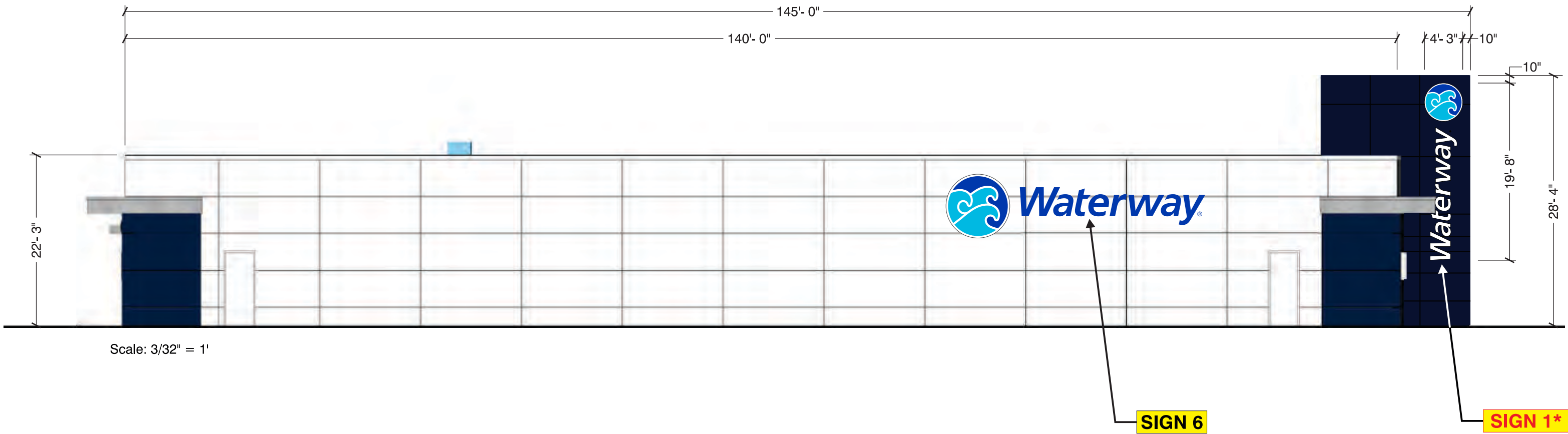


Sales:	Lisa Koebel
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Drwg #:	247334-1-11



***NOTE: THERE ARE TWO (2) INSTALLS - ONE ON EACH SIDE OF PYLON WALL**

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11

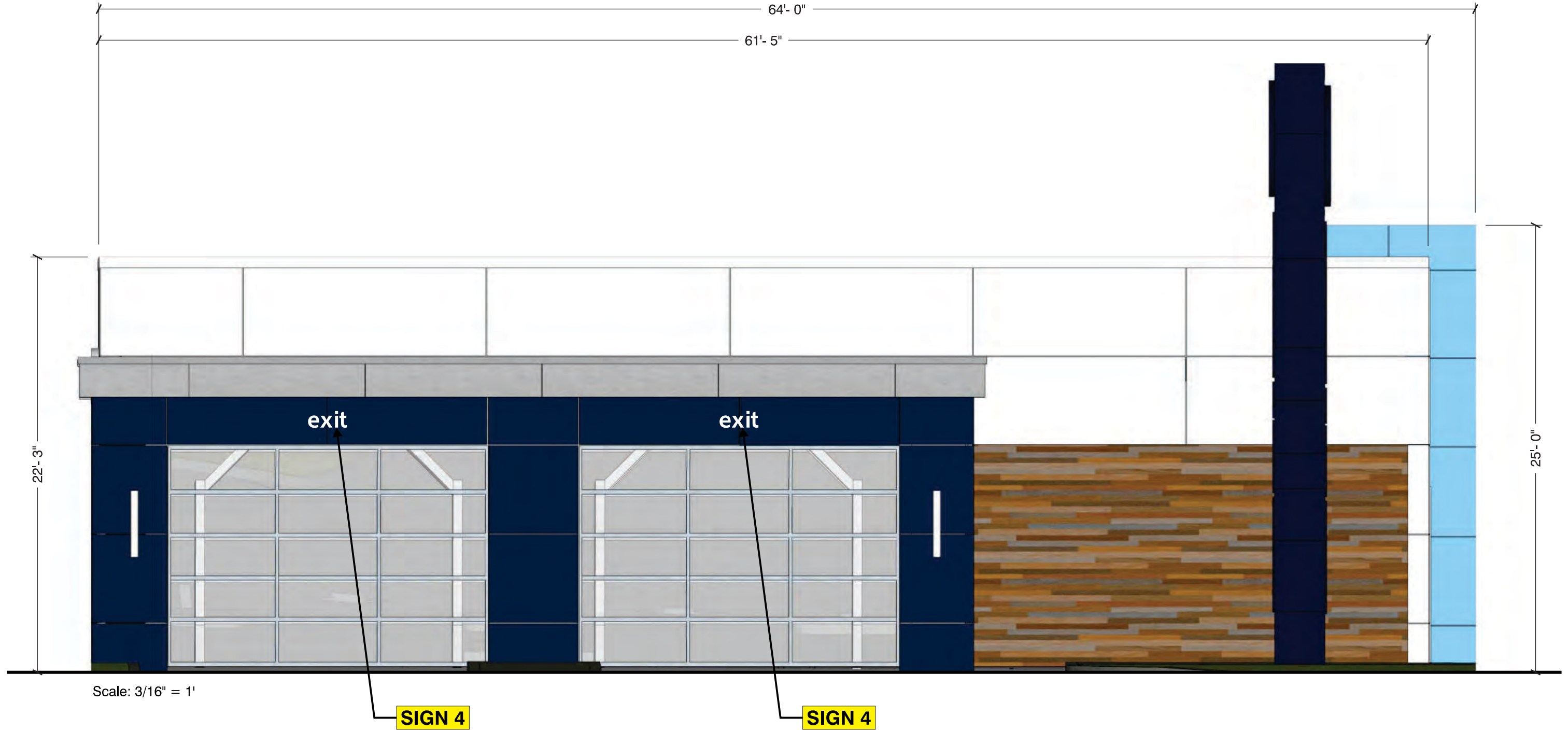


***NOTE: THERE ARE TWO (2) INSTALLS - ONE ON EACH SIDE OF PYLON WALL**

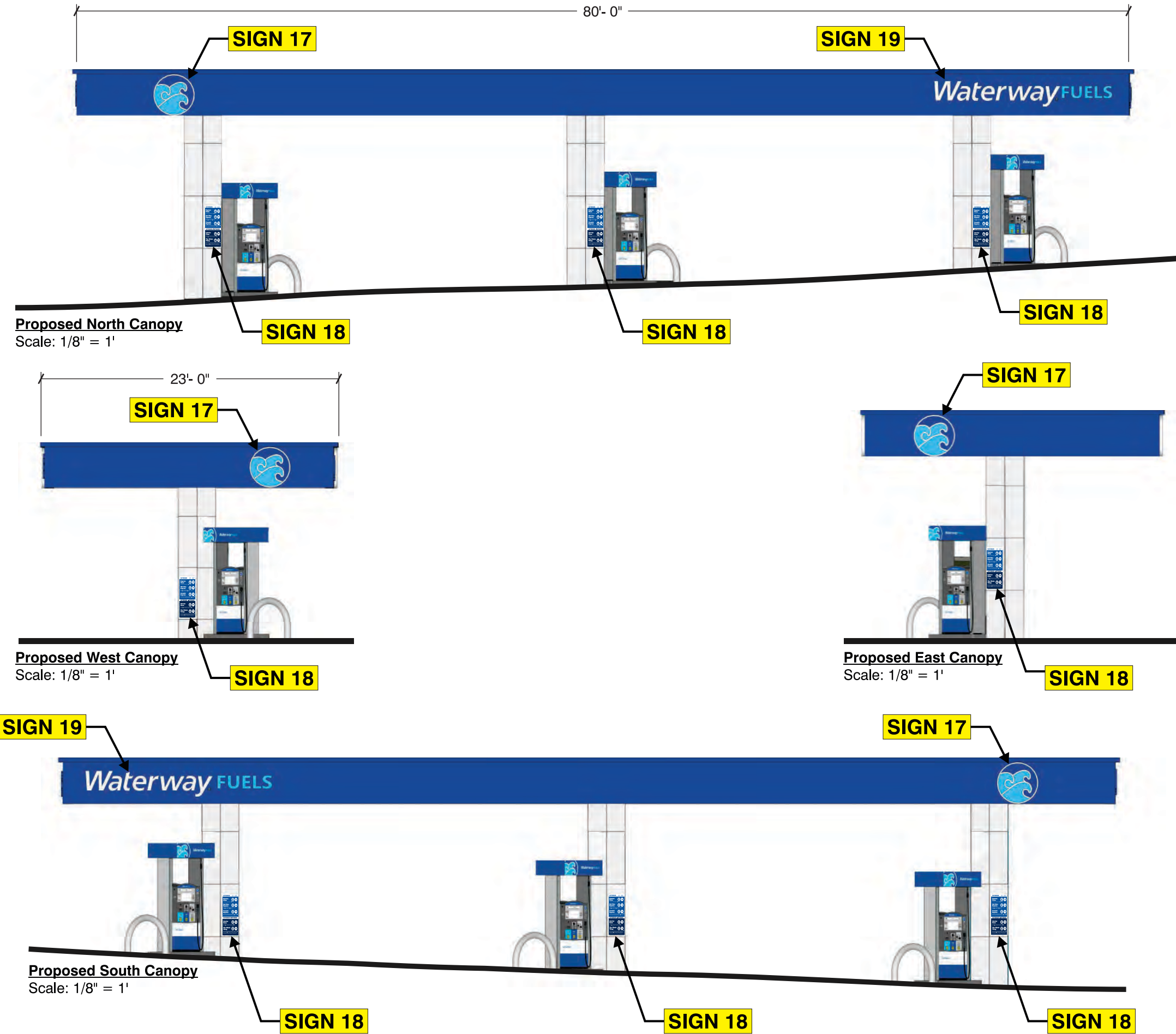
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11



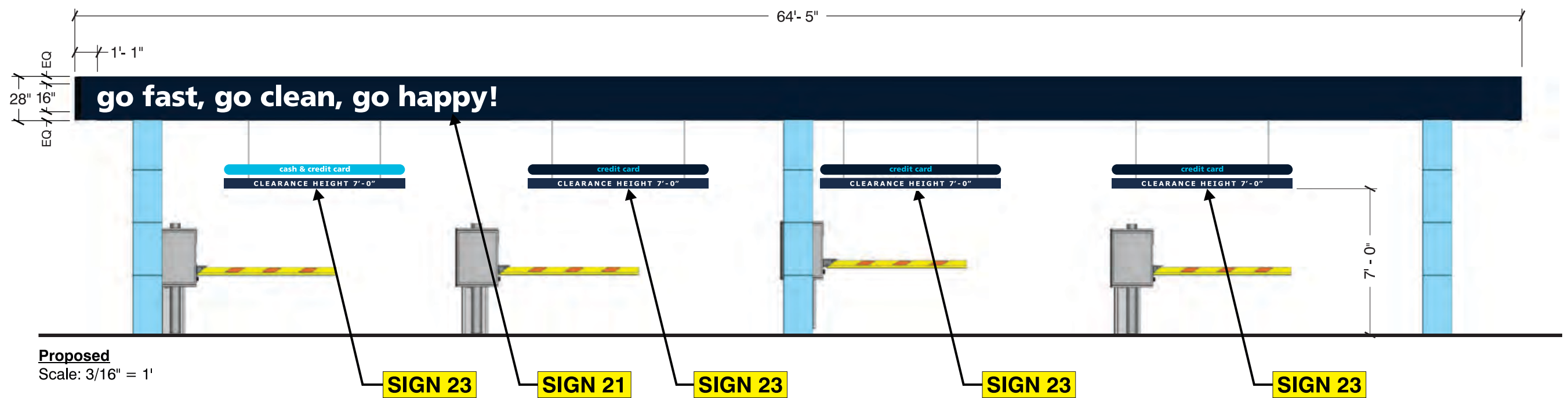
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11



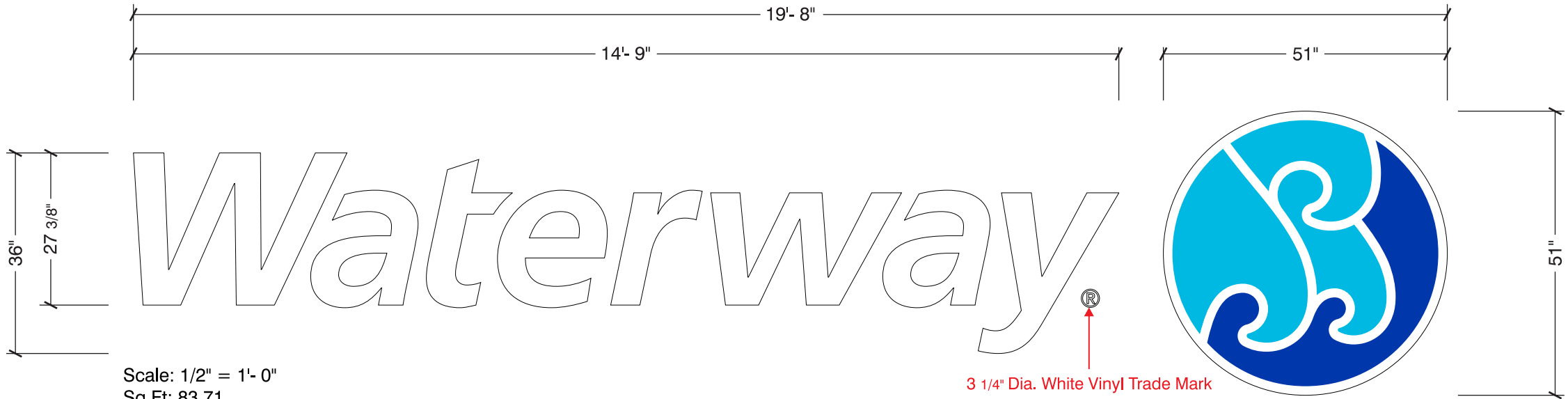
Sales:	Lisa Koebel
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Art:	GED 8.28.25
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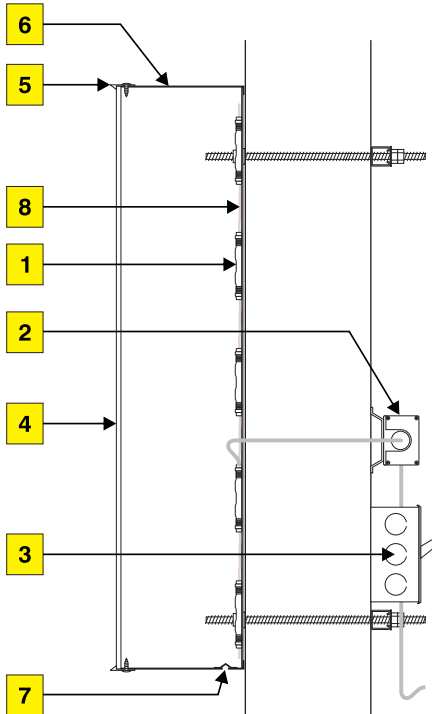


Center mark on top of logo to be added during manufacturing for mounting purposes.



Copy & logo shown rotated 90° counterclockwise (parallel to the ground)

----- Grade
Installed sign orientation



Illumination

- 1 White LEDs.
- 2 Remote power supplies.
- 3 Logo & letters to have UL Listed disconnect switches.

Faces

- 4 #7328 white acrylic. Colors to match white, PMS 306 C (vinyl: Oracal 8500 Light Blue) & PMS 286 C (vinyl: Avery A6574-T Ultra Marine Cast 800 Blue. Applied first surface.
- 5 Logo & letters to have 1" white Jewelite trim cap.

Returns

- 6 3" x .040 Aluminum painted dark blue painted Benjamin Moore Old Navy 2063-10.
- 7 1/4" weep holes. Holes to be located on left sides of letters & logo at the lowest point of the rotated letter to prevent water pooling).*

Backs

- 8 White aluminum or ACM.

*Note:
When rotated, the letter 'y' has two descending strokes each requiring weep holes.

Mounting

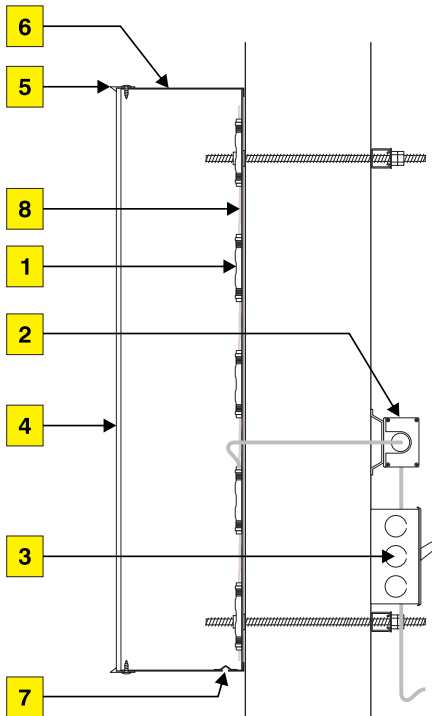
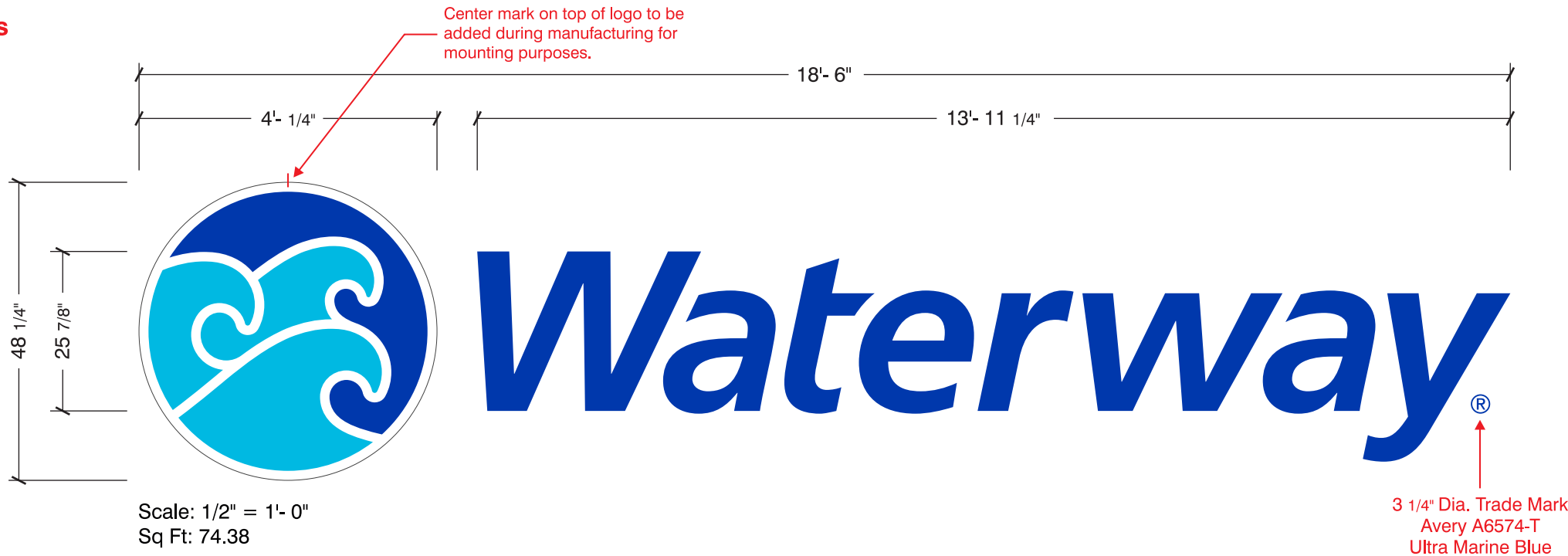
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match

 PMS 306 C (Vinyl) Oracal 8500 Light Blue	 PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue
 White	 Benjamin Moore Old Navy 2063-10

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 5.7.25
Drwg #:	247334-1-11



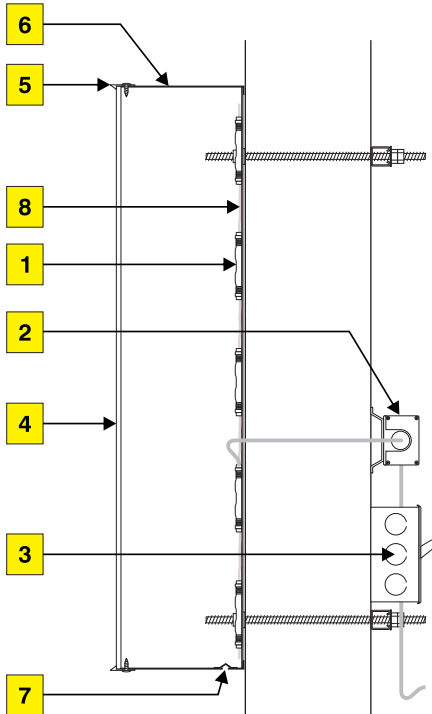
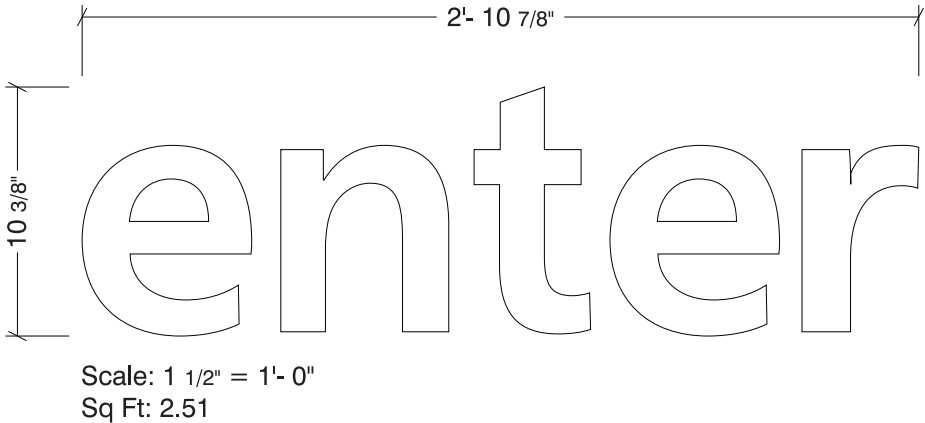


Illumination	
1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.
Faces	
4	#7328 white acrylic. Colors to match white, PMS 306 C (vinyl: Oracal 8500 Light Blue) & PMS 286 C (viny: Avery A6574-T Ultra Marine Cast 800 Blue. Applied first surface.
5	Logo & letters to have 1" white Jewelite trim cap.
Returns	
6	Logo & letters: 3" x .040 Aluminum painted white.
7	1/4" weep holes required.
Backs	
8	White aluminum or ACM.

Mounting	
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match	
	PMS 306 C (Vinyl) Oracal 8500 Light Blue
	PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue
	White

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



Illumination	
1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.
Faces	
4	#7328 White acrylic.
5	1" White Jewel-Lite trim cap.
Returns	
6	3" x .040 Pre-painted Benjamin Moore Old Navy 2063-10.
7	1/4" Weep holes required.
Backs	
8	White aluminum or ACM.

Mounting

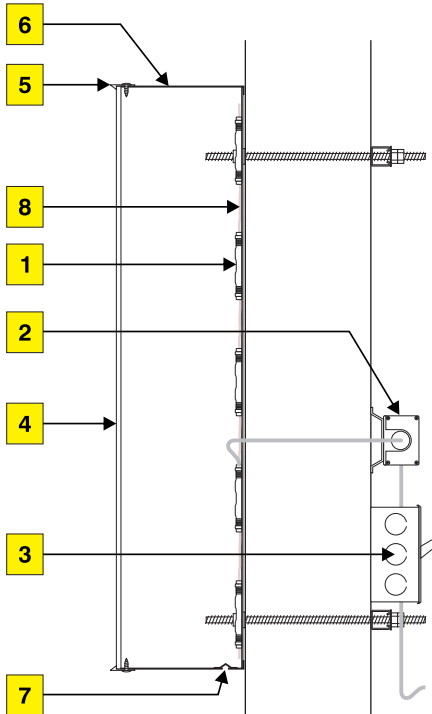
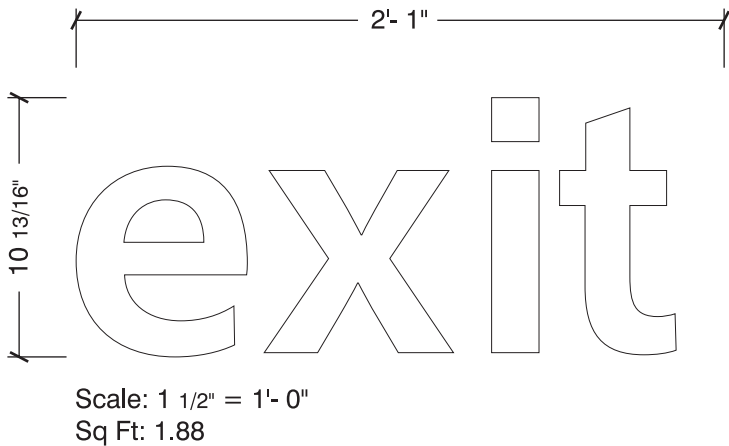
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match

Benjamin Moore
Old Navy 2063-10

White

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



Illumination	
1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.
Faces	
4	#7328 White acrylic.
5	1" White Jewel-Lite trim cap.
Returns	
6	3" x .040 Pre-painted Benjamin Moore Old Navy 2063-10.
7	1/4" Weep holes required.
Backs	
8	White aluminum or ACM.

Mounting

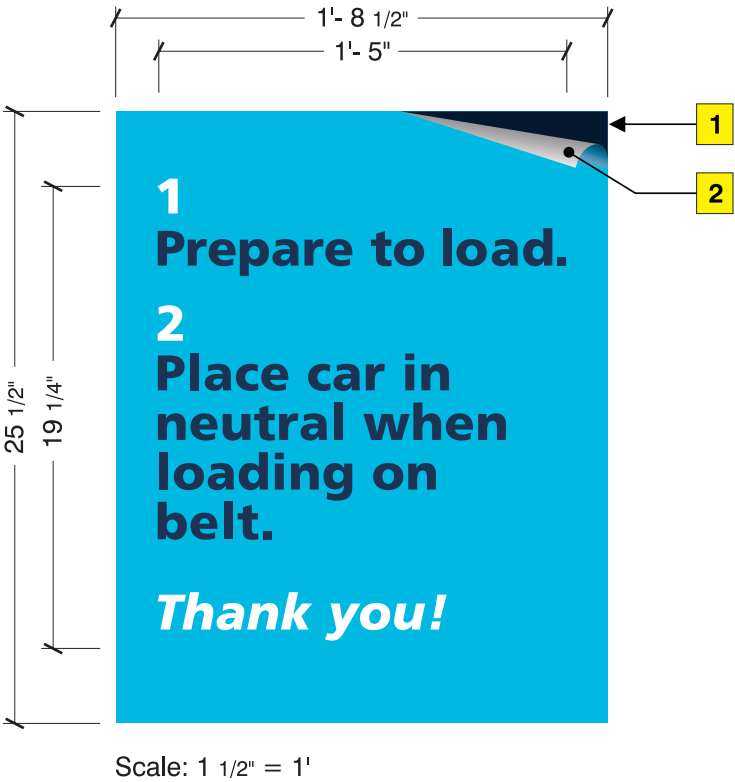
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match

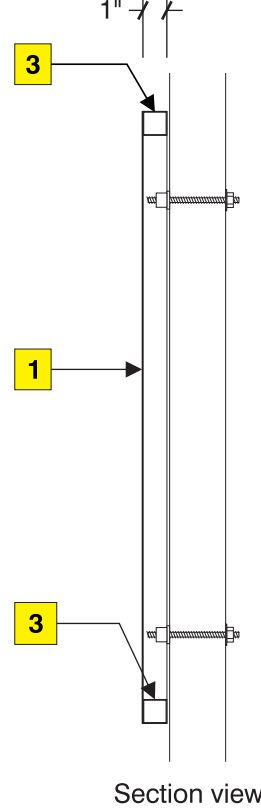
 Benjamin Moore
Old Navy 2063-10

 White

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



Scale: 1 1/2" = 1'



Face	
1	16 gauge cold rolled steel painted Benjamin Moore 2063-10.
2	Digitally printed magnetic overlay applied first surface.
Frame	
3	1" x 11 Gauge square steel tube w/ nut inserts for mounting painted Benjamin Moore 2063-10.

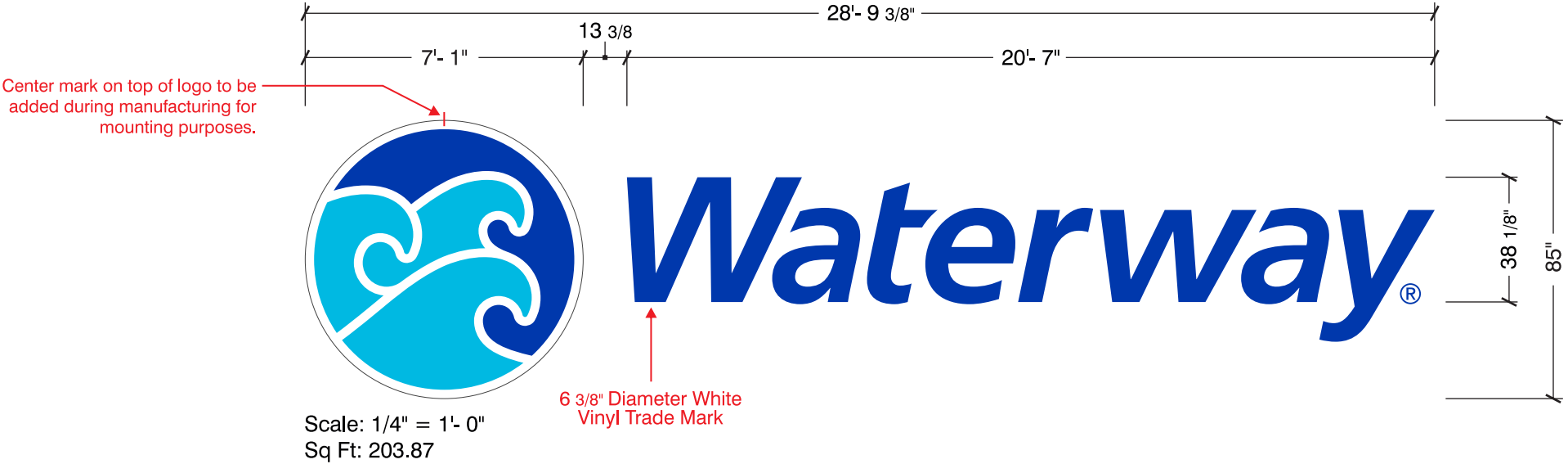
Digital print colors			
	PMS 533 C		White
	PMS 306 C		

Face & frame colors	
	Benjamin Moore Old Navy 2063-10

*Customer to provide final graphic to use for manufacturing.
Subject to sizing & color changes.

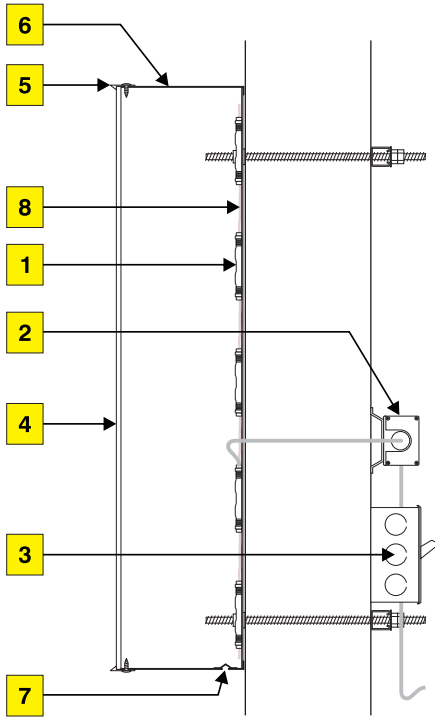
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11

Refer to page 12 for elevations



*Manufacturing notes:
Use the existing customer owned 85" Waterway sign in stock.
Manufacture replacement faces for the Waterway letters w/ Avery A6474-T Ultra Marine Cast 800 Blue vinyl applied first surface.

Original mounting pattern for logo was for a vertical format. Production to update mounting pattern for a linear logo format.

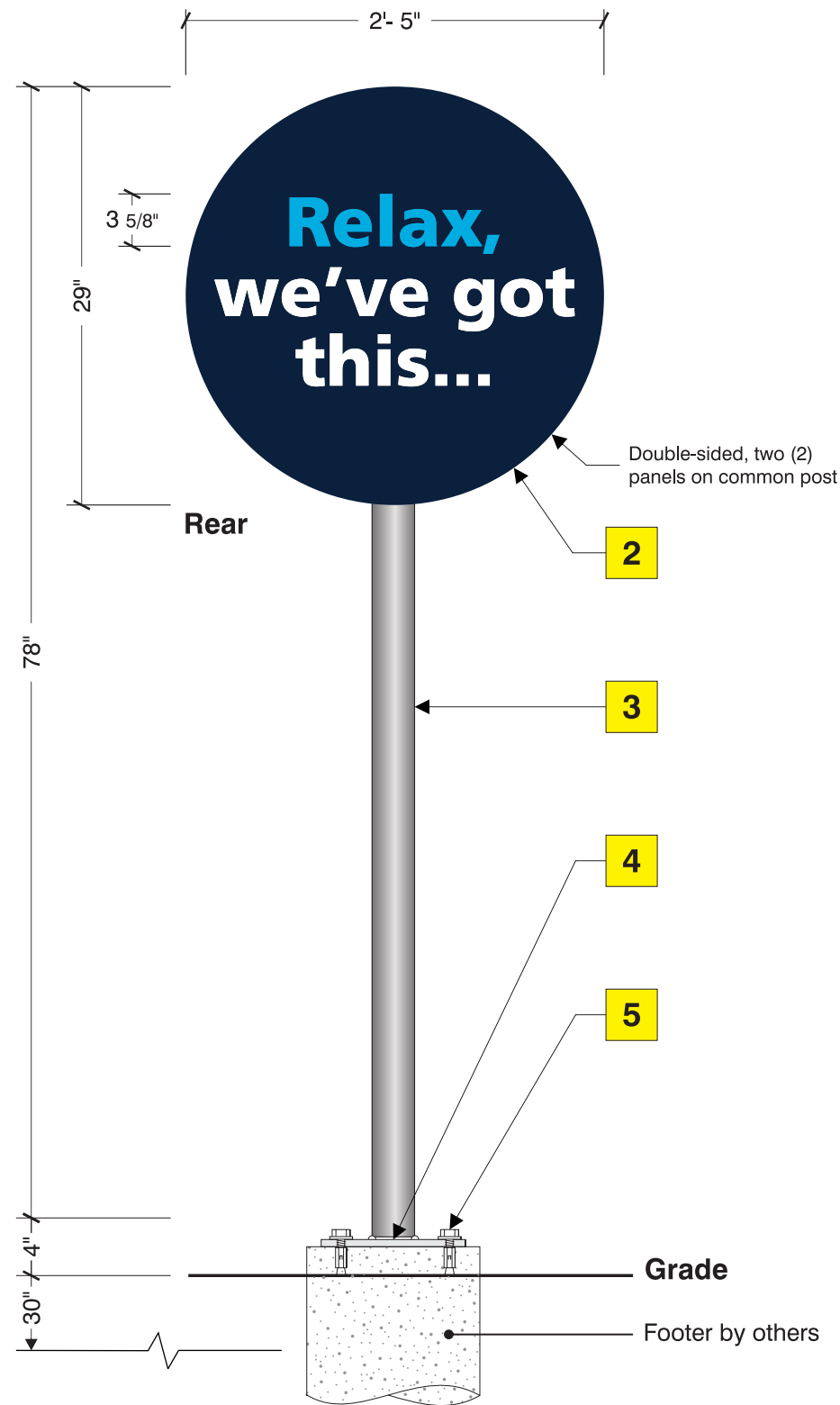


Illumination	
1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.
Faces	
4	#7328 White acrylic. Colors to match white, PMS 306 C (vinyl: Oracal 8500 Light Blue) & PMS 286 C (vinyl: Avery A6574-T Ultra Marine Cast 800 Blue. Applied first surface.
5	Logo & letters to have 1" white Jewel-Lite trim cap.
Returns	
6	Logo & letters: 3" x .040 aluminum painted white.
7	1/4" Weep holes required.
Backs	
8	White aluminum or ACM.

 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match	
	PMS 306 C (Vinyl) Oracal 8500 Light Blue
	PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue
	White

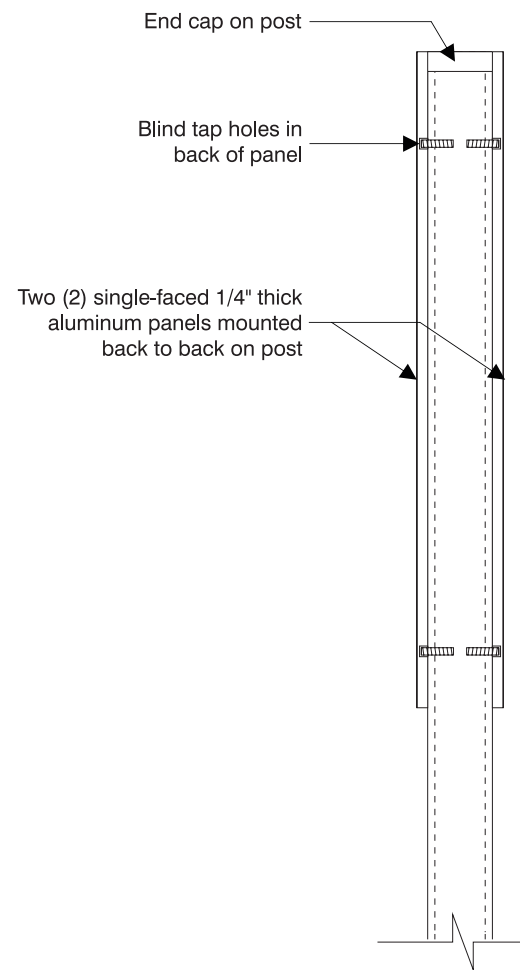
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.12.25
Drwg #:	247334-1-11



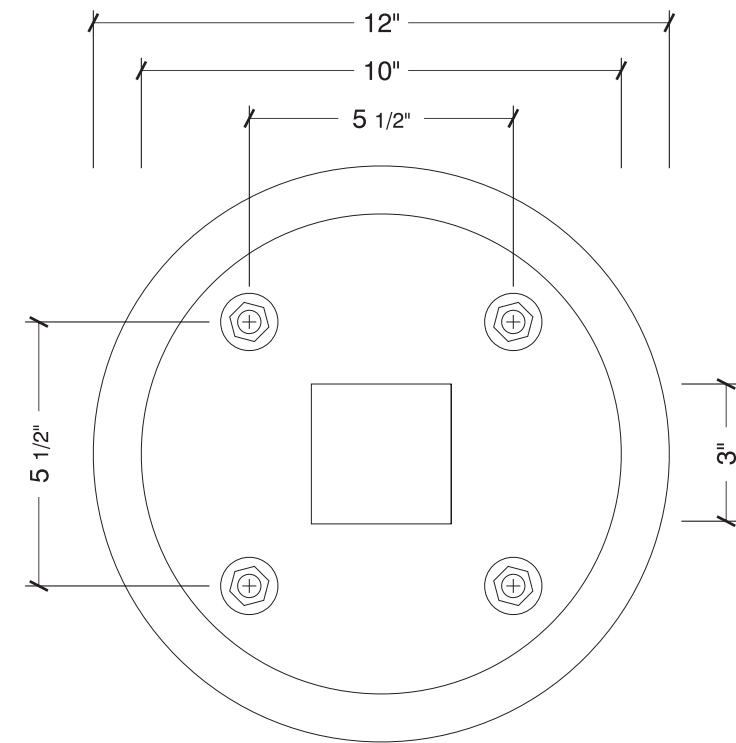
Front elevation
Scale: 1" = 1'



Rear
Scale: 3/4 " = 1'



Side elevation
Scale: 1" = 1'



Concept Base Plate Detail
Scale: 3" = 1'

Letters

1 White & PMS 306 C vinyl applied first surface

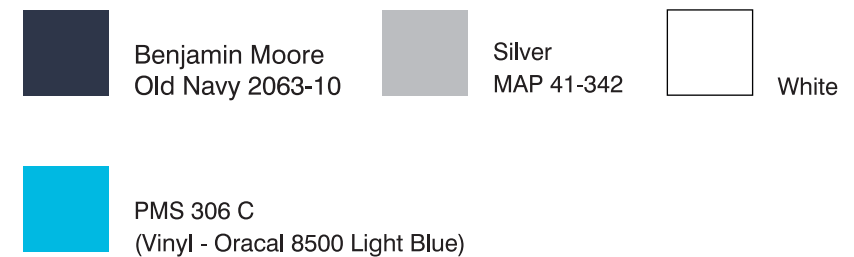
Panel

2 1/4" thick double-faced round aluminum panel painted front and back Benjamin Moore Old Navy 2063-10.

Support

3 3" x 3" aluminum tube post painted Silver MAP 41-342.
4 Tube welded to 10" dia. x 1/2" thick aluminum base plate painted Silver MAP 41-342.
5 1/2" - 13 stainless steel hex bolt & lock washer w/ 1/2" - 13 x 2" zinc -plated steel concrete drop anchor. Dewalt smart DI- #6308SD (typical).

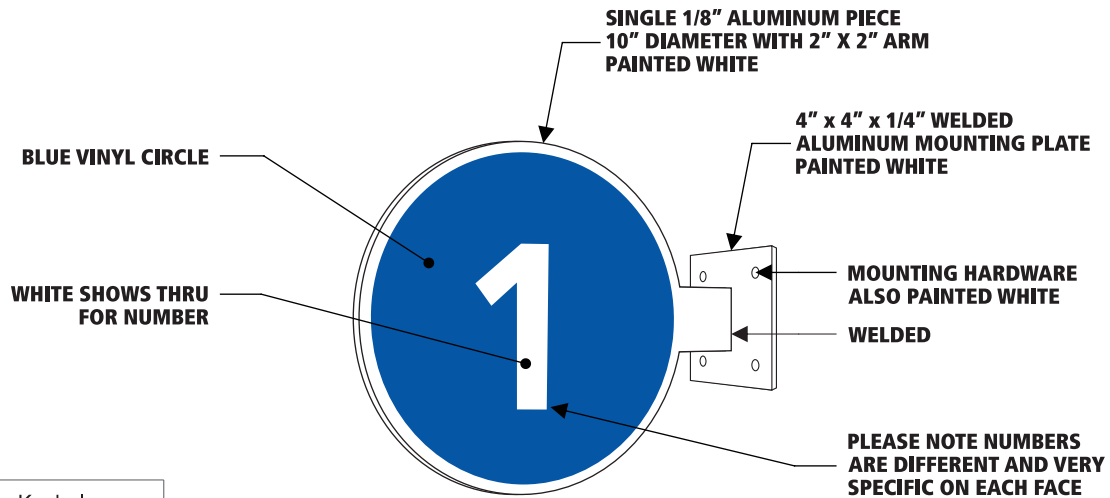
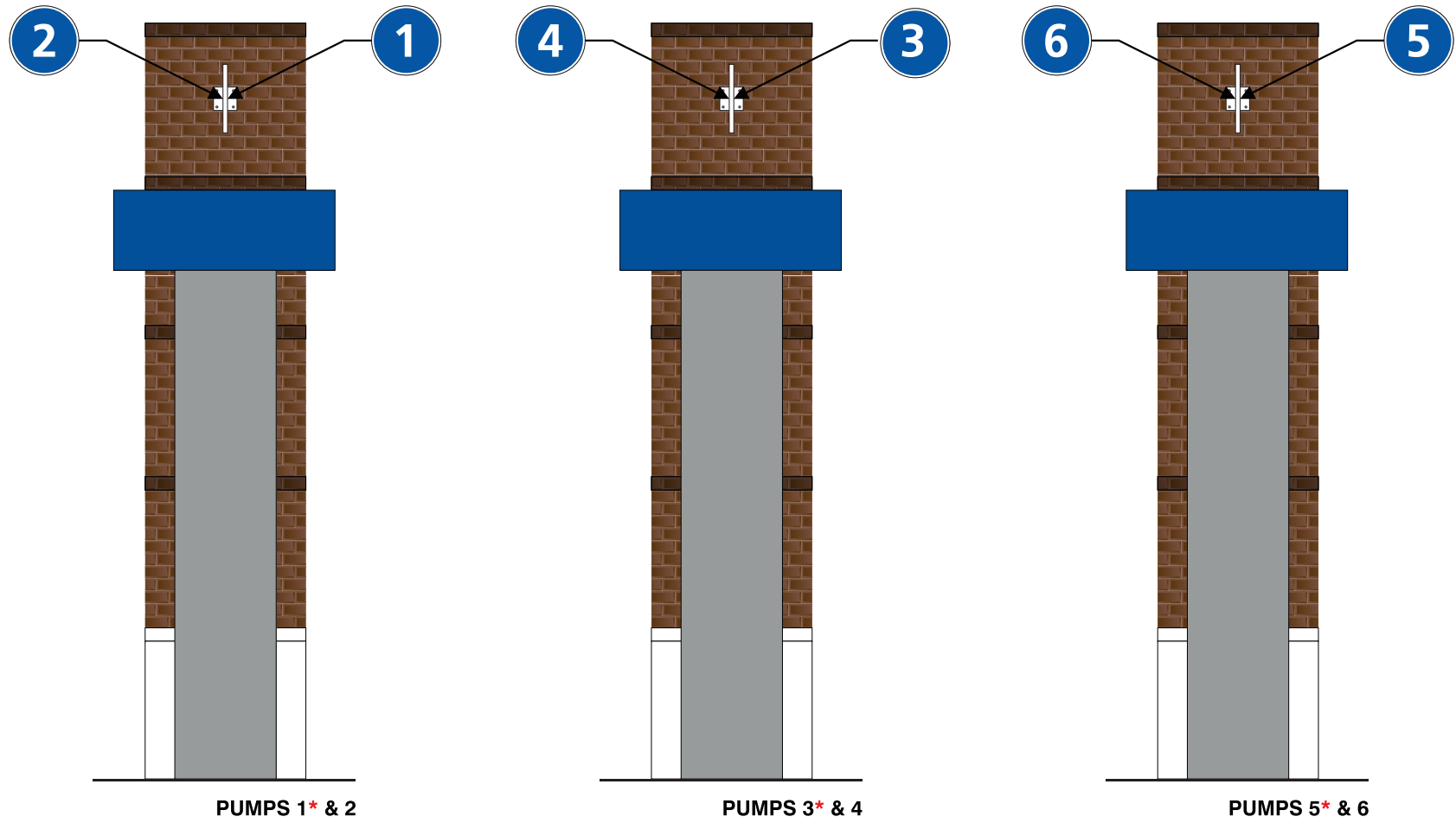
Colors to match



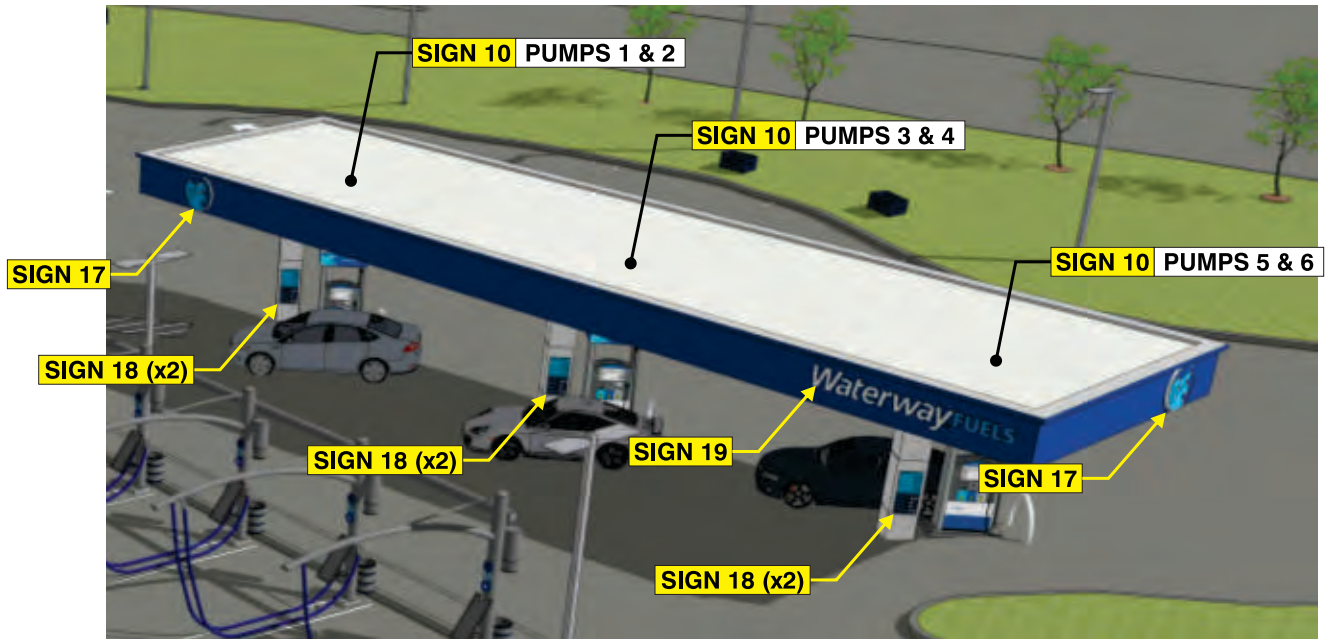
Sales:	Lisa Koebel
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Art:	GED 8.18.25
Drwg #:	247334-1-11



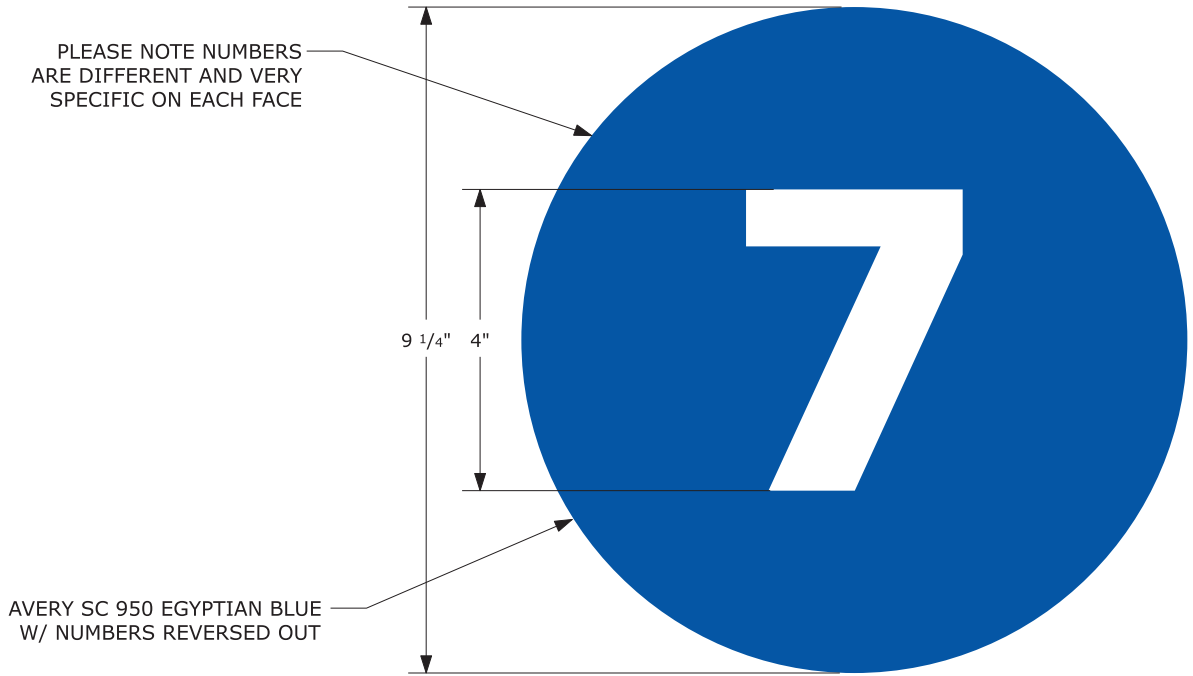
Scale: 3/4" = 1'-0"

 Shown as viewed from
convenience store


NOTE:
Odd numbers are to be installed
facing convenience store.

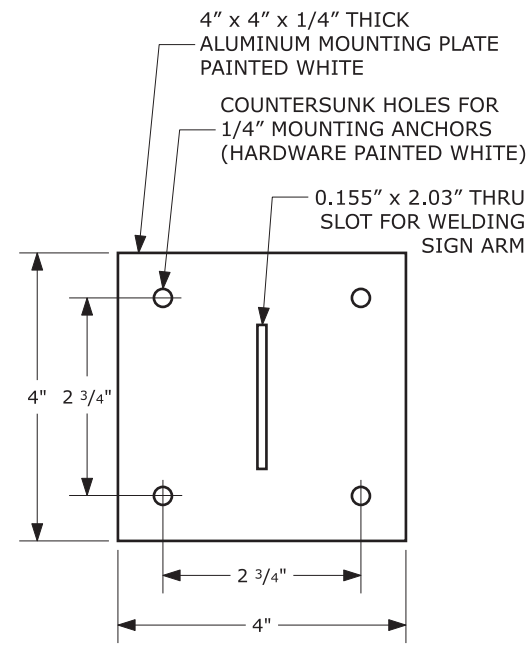
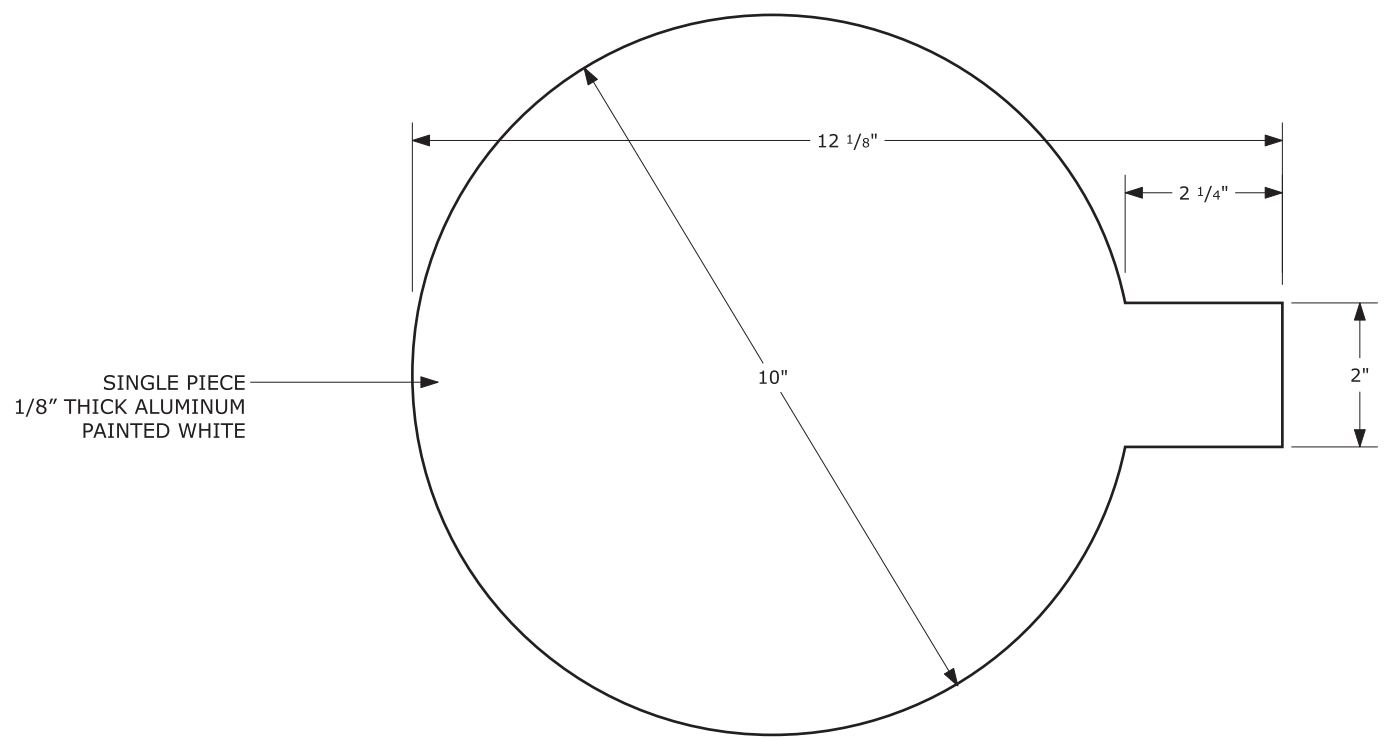


Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



#J1767 WATERWAY
Pump Number Signs

SPEC SUMMARY:
Qty: T.B.D.
10" diameter circle
2" arm length
Single piece 1/8" thick aluminum
4" x 4" x 1/4" mounting plate
welded to arm
4 Countersunk holes for 1/4" dia
mounting anchors
All aluminum and hardware
painted white
Blue applied vyle circle with
number weeded to show white

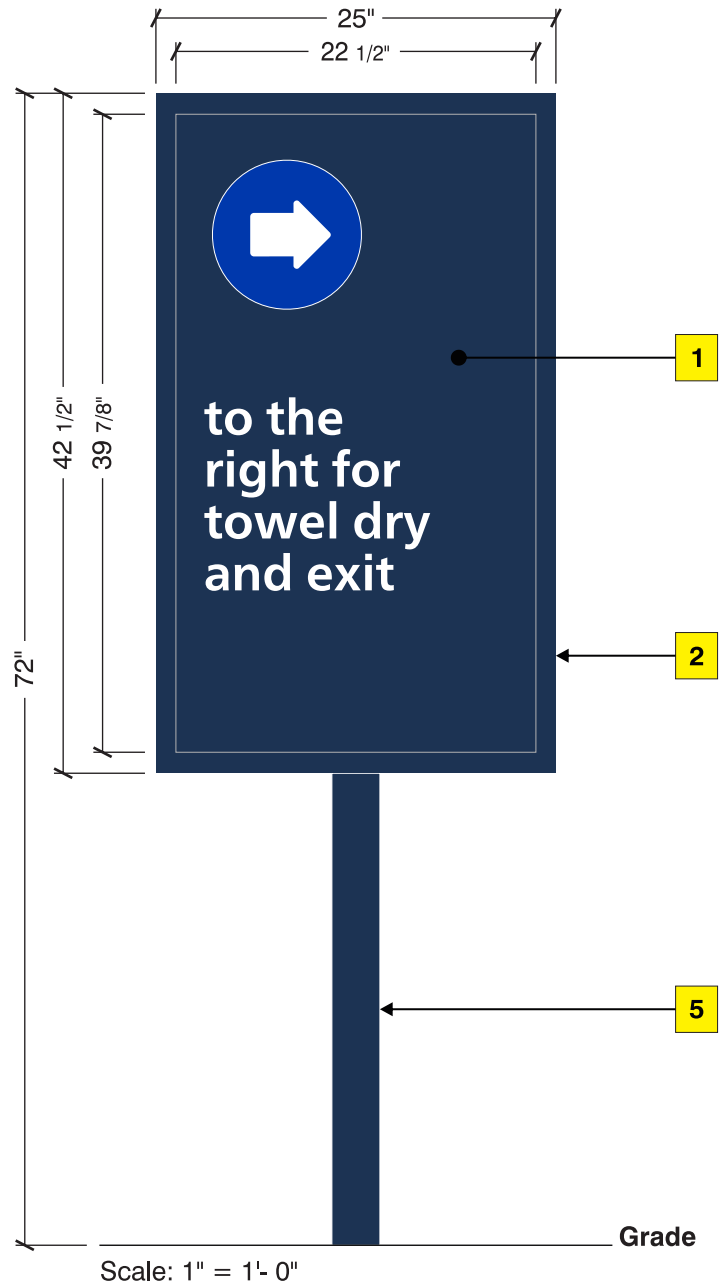


Colors to match

Avery SC 950
Egyptian Blue

White

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Art:	GED 8.18.25
Drwg #:	247334-1-11



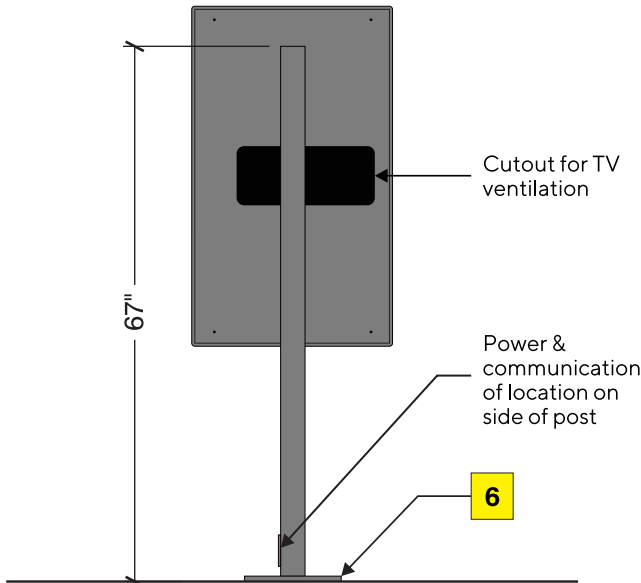
Move corner blocks in slightly to allow the frame cover to slide over easier that would be great. Also, if the frame cover could be 4 5/8" deep that would allow a wall-to-wall cover.

Colors to match

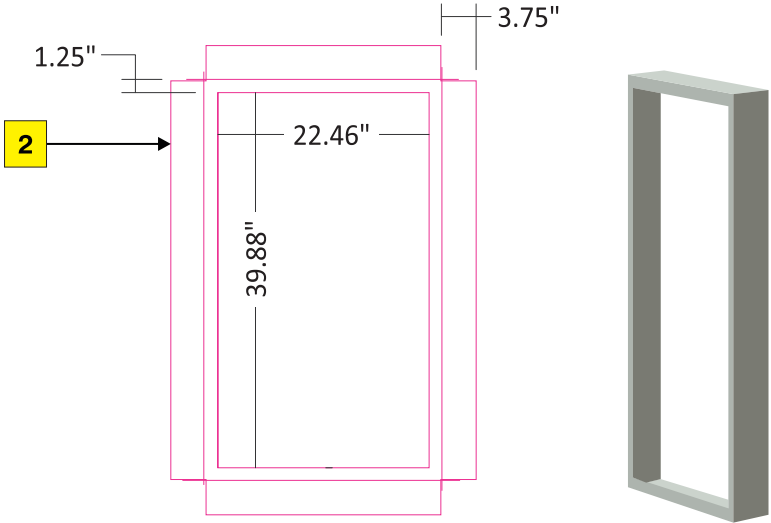
 PMS 533C
BM 2063-10

Face	
1	TV insert (provided by Waterway).
Frame	
2	1 1/2" x 3 3/4" x .090 aluminum brake metal frame painted BM 2063-10 & adhered to TV w/ silicone.
3	3" square tube spacer for air gap/flow painted BM 2063-10.
4	1/4" thick back plate (hardware mounts thru plate & spacers into back threads embedded in to TV) painted BM 2063-10.
Support	
5	3" x 6" x 3/16" aluminum tube welded to back of 1/4" back plate painted BM 2063-10.
6	14" x 12" x 1/2" aluminum baseplate welded w/ gussets to 3" x 6" tube painted BM 2063-10.

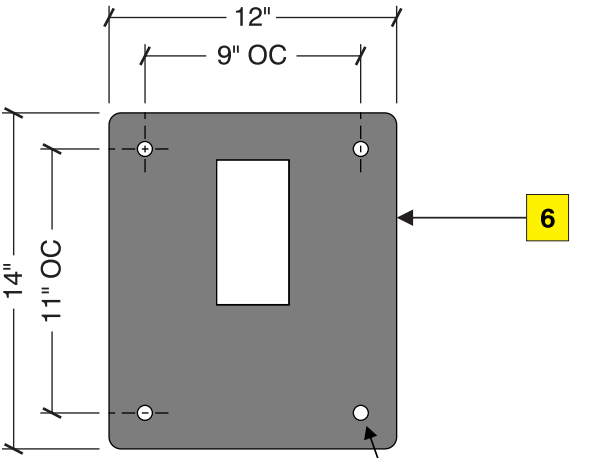
*All painting to be gloss clear coat.



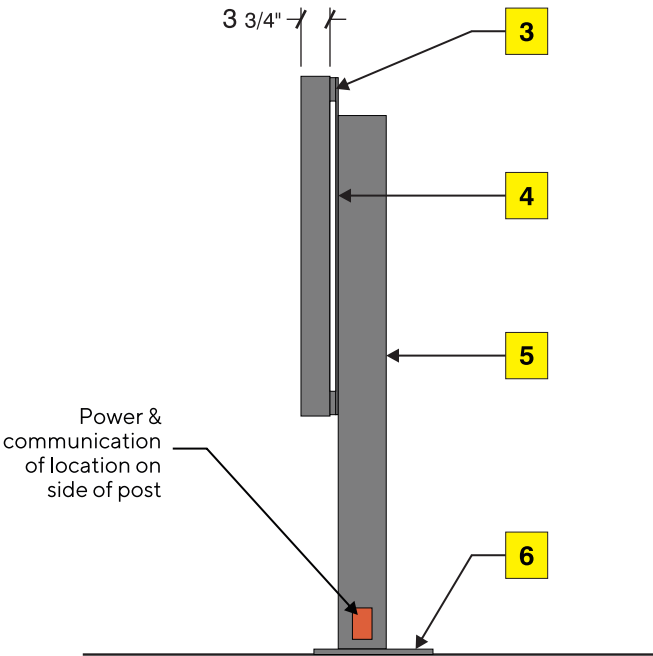
Rear view
nts



Frame detail
nts



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

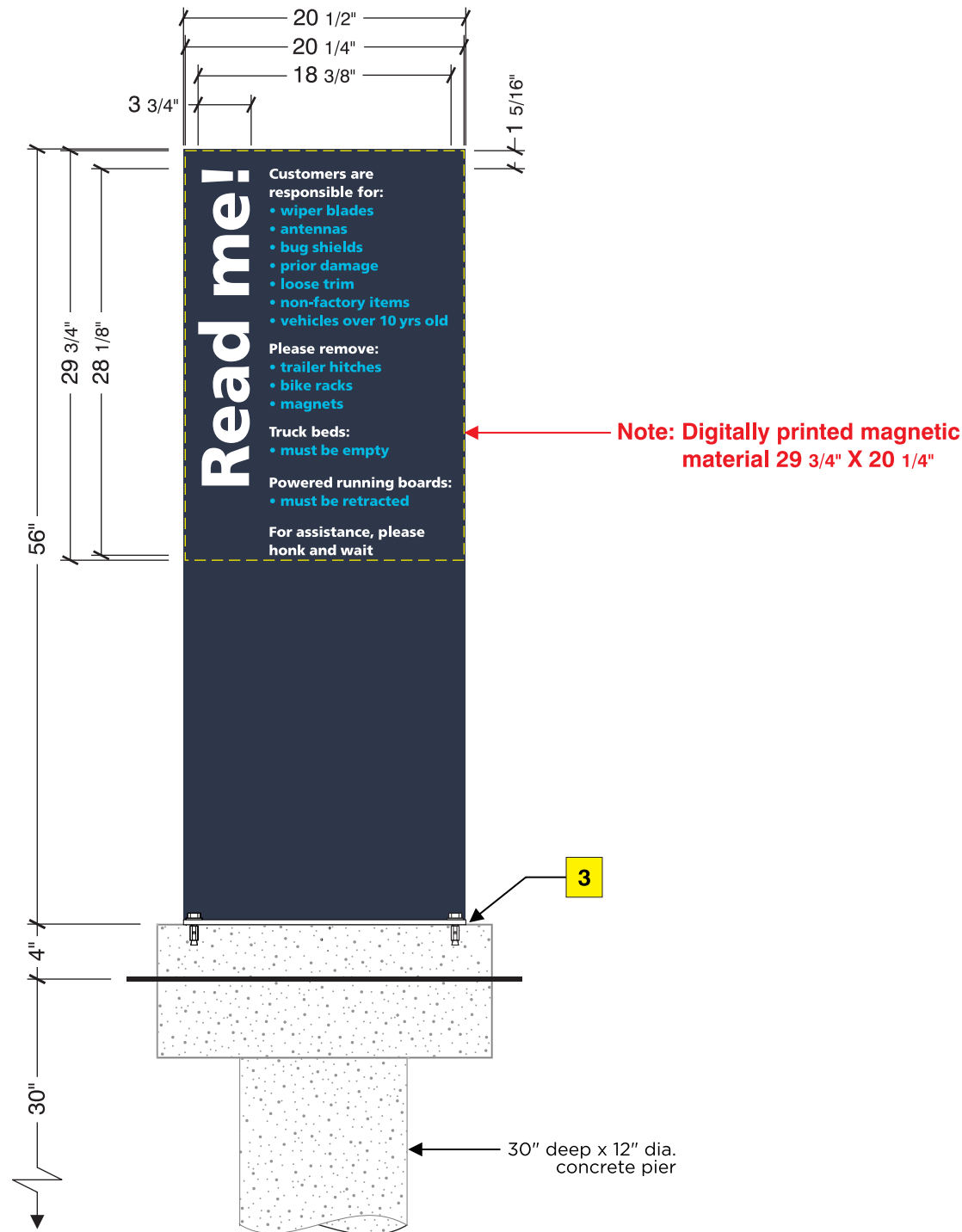


Side view
nts

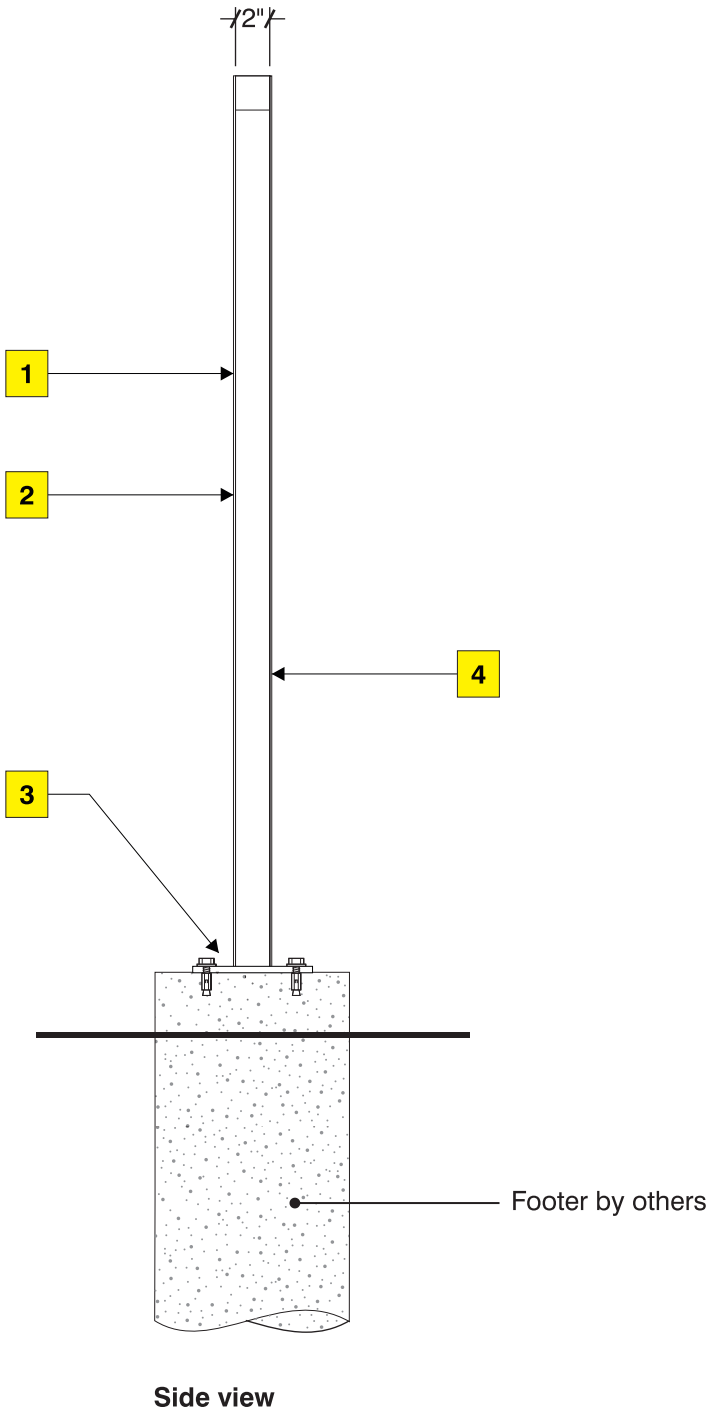


Example

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 9.25.25
Drwg #:	247334-1-11



Scale: 1" = 1'- 0"



Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11

1	2" square aluminum tube frame w/ .090 aluminum skin painted Benjamin Moore Old Navy 2063-10.
2	20Ga. galvanized steel face over aluminum on front only painted Benjamin Moore Old Navy 2063-10.
3	6" x 20" x 1/2" thick aluminum baseplate painted Benjamin Moore Old Navy 2063-10.
4	Aluminum painted face.

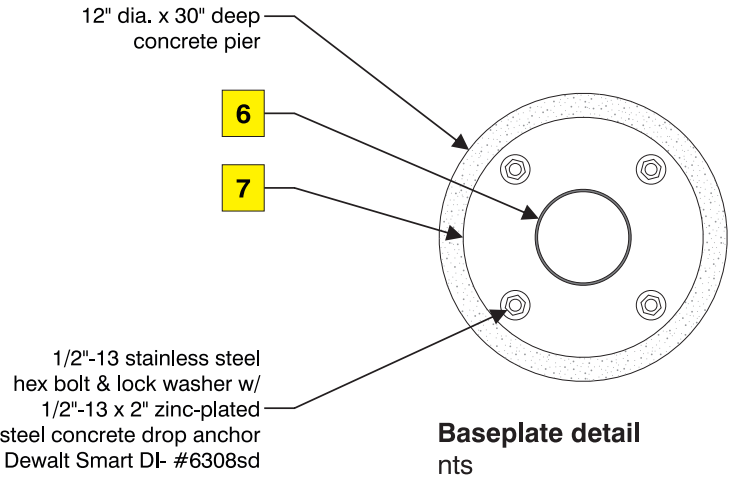
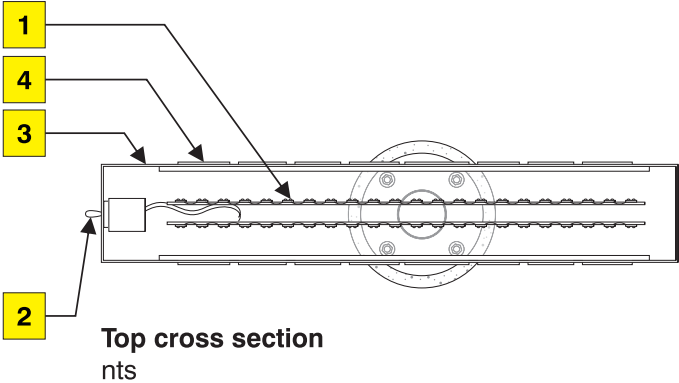
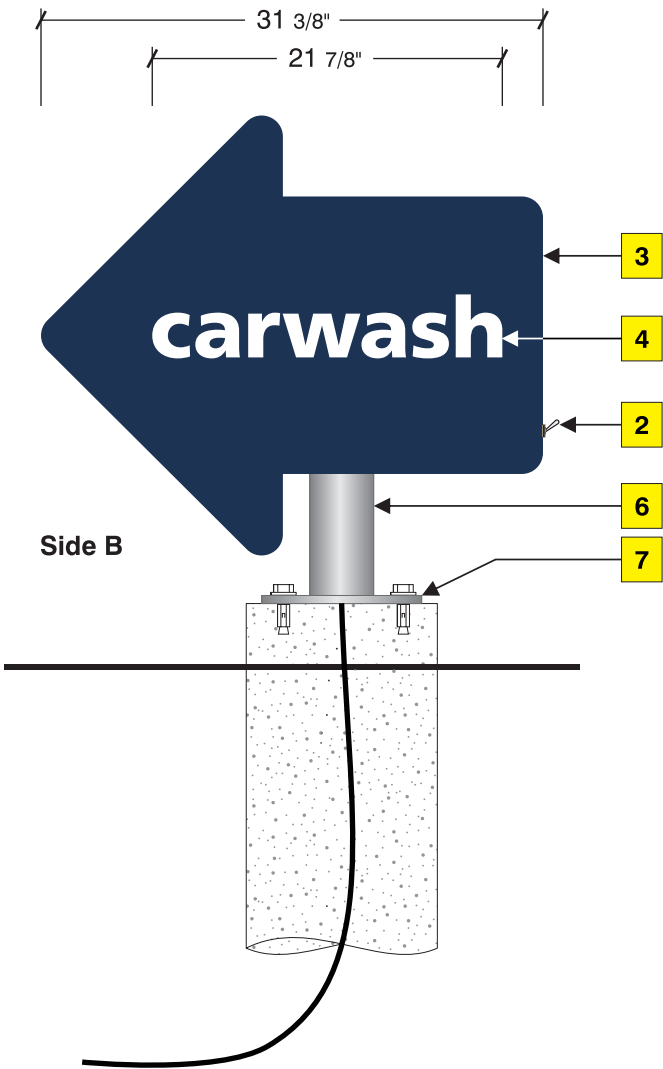
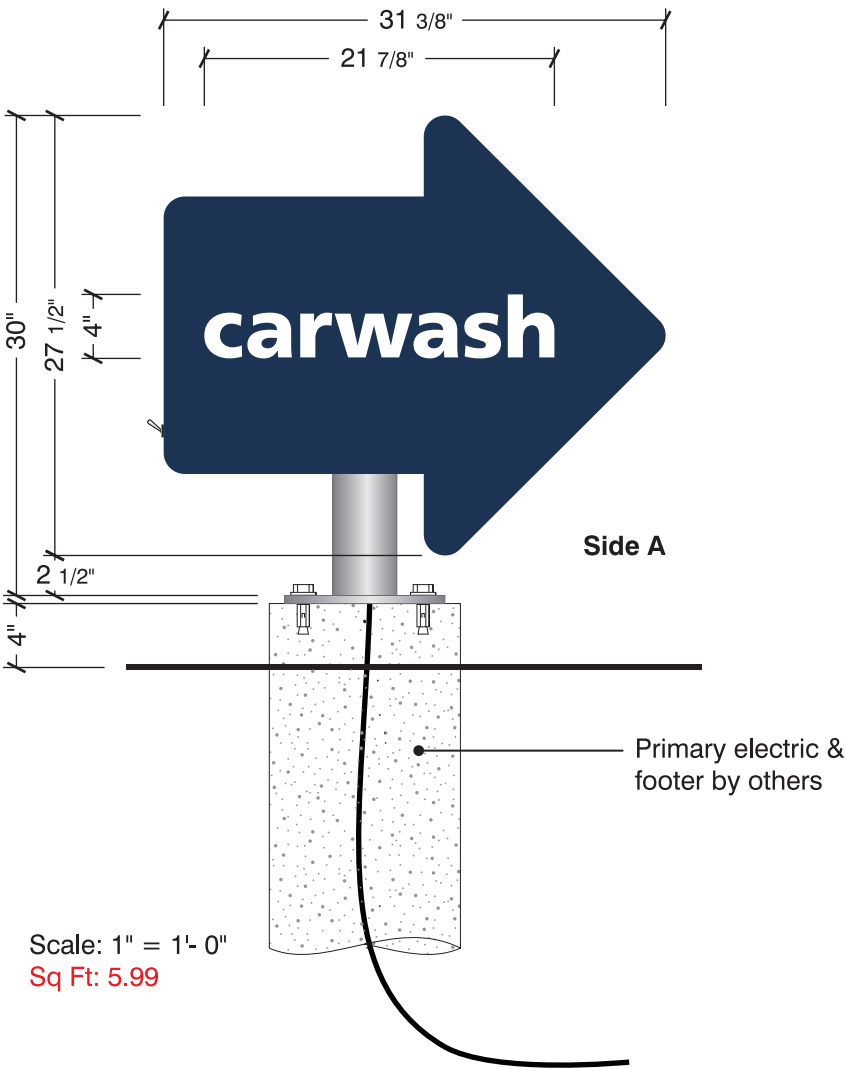
Colors to match

Benjamin Moore
Old Navy 2063-10

PMS 306 C
(Oracal 8500 blue)

White

Revised to comply with sign code



Colors to match

Benjamin Moore
Old Navy 2063-10
(face & returns)

Silver
MAP 41-342

White

Illumination

1	Hanley PF-3120 white LEDs.
2	UL Listed disconnect switch.

Faces

3	.090 Routed aluminum painted Benjamin Moore Old Navy 2063-10.
---	---

Letters

4	1/2" #7328 White plex push-thru letters.
---	--

Return

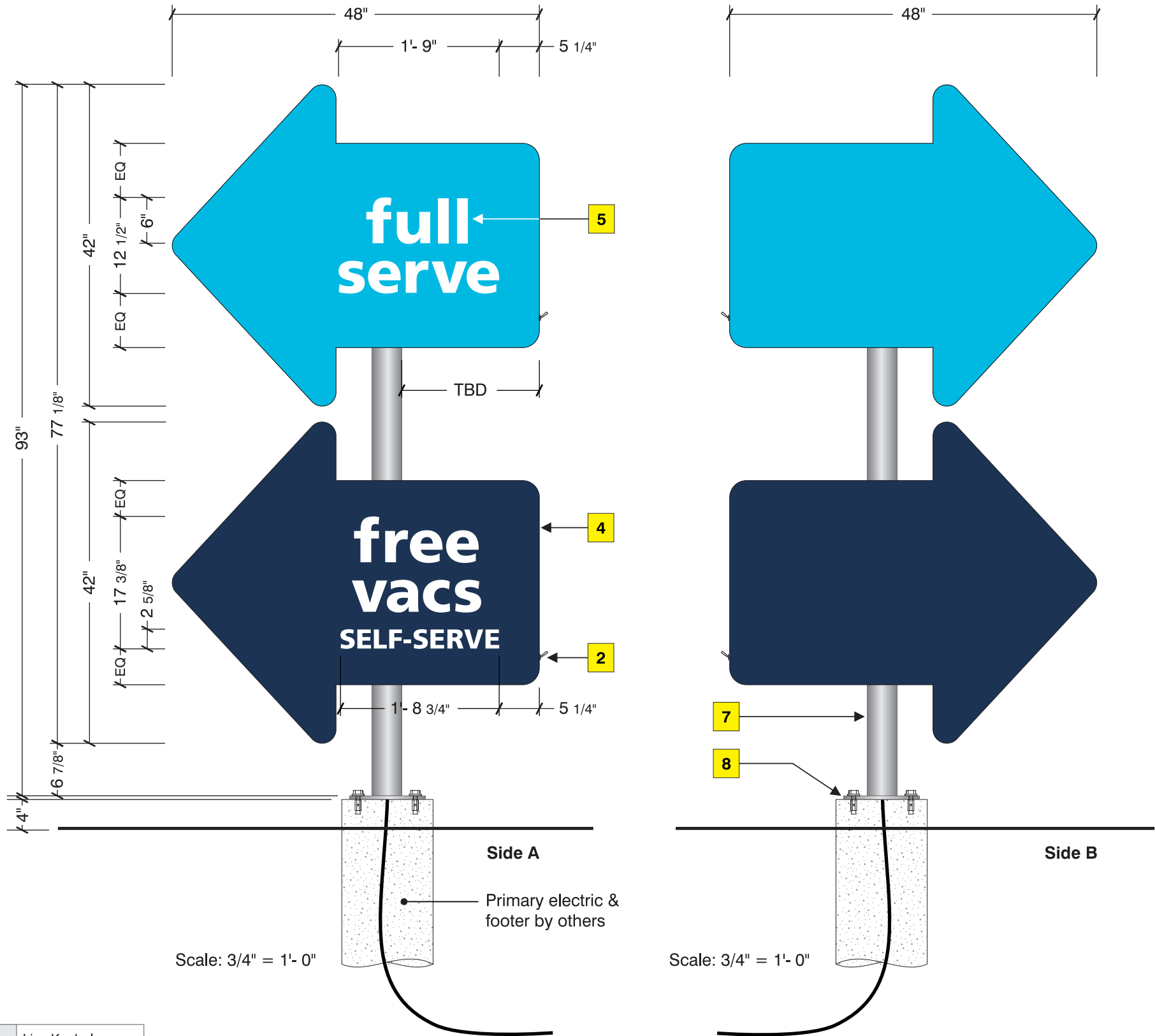
5	8" Deep return painted Benjamin Moore Old Navy 2063-10.
---	---

Support

6	4" Dia. aluminum post painted Silver MAP 41-342.
7	10" Dia. x 1/2" thick aluminum baseplate welded to post painted Silver MAP 41-342.

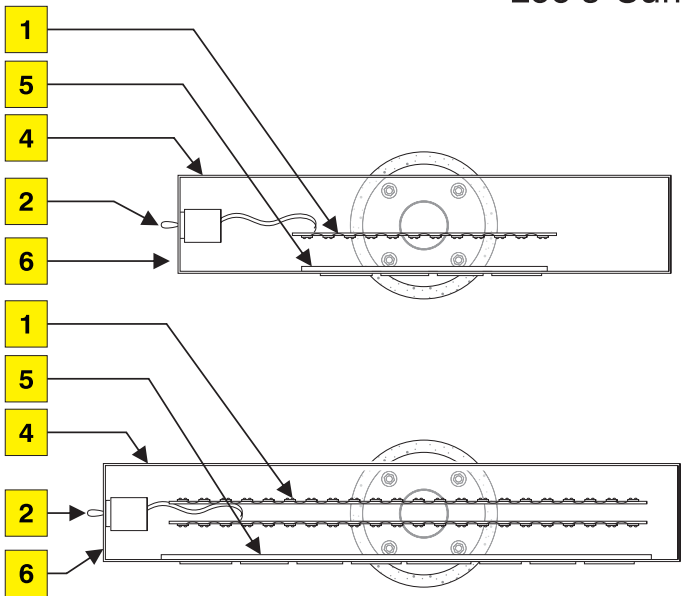
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11

Refer to page 2 for location

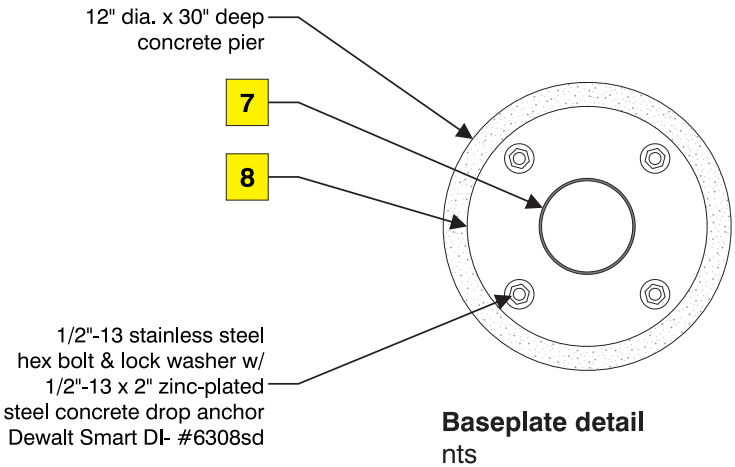


Colors to match

- Benjamin Moore Old Navy 2063-10 (face & returns)
- Benjamin Moore 2060-40 Toronto Blue (face & returns)
- MAP 41-342 Silver
- White



Cabinet top cross sections
nts



Baseplate detail
nts

Illumination

- 1 White LEDs.
- 2 UL Listed disconnect switch.
- 3 60W power supply.

Faces

- 4 .090 Routed aluminum painted Benjamin Moore 2063-10 & PMS 306 C.

Letters

- 5 1/2" #7328 White plex push-thru letters.

Return

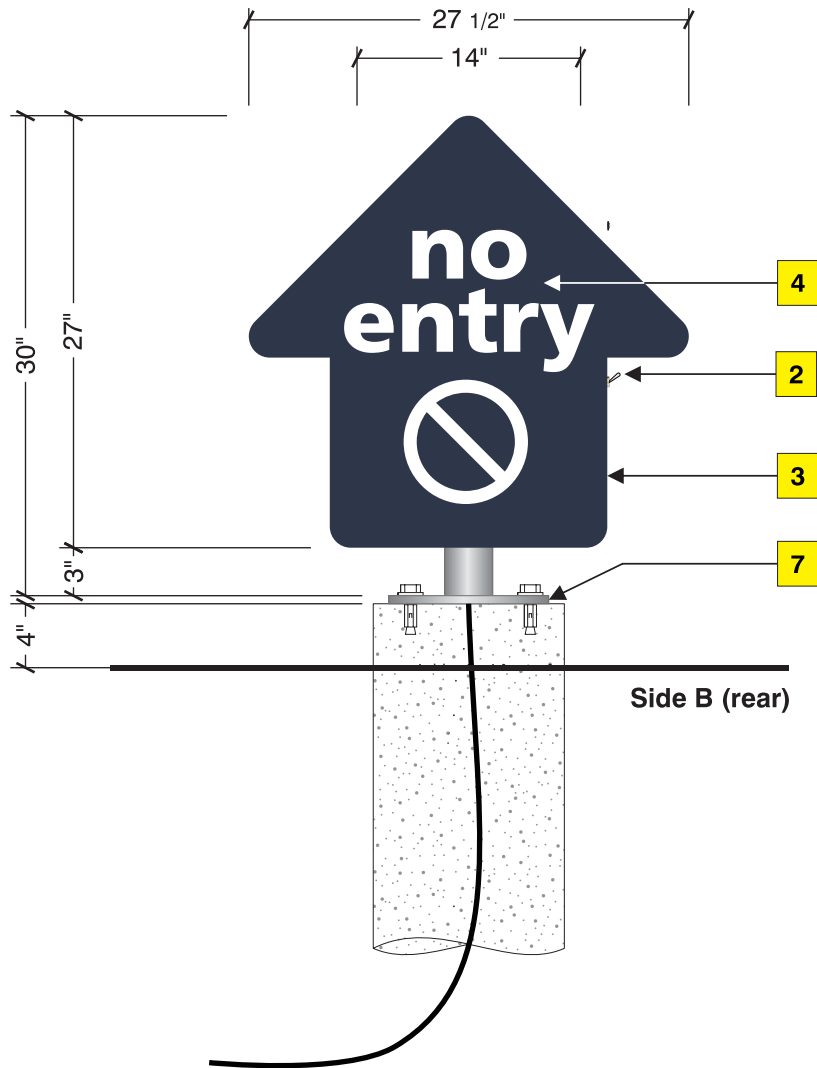
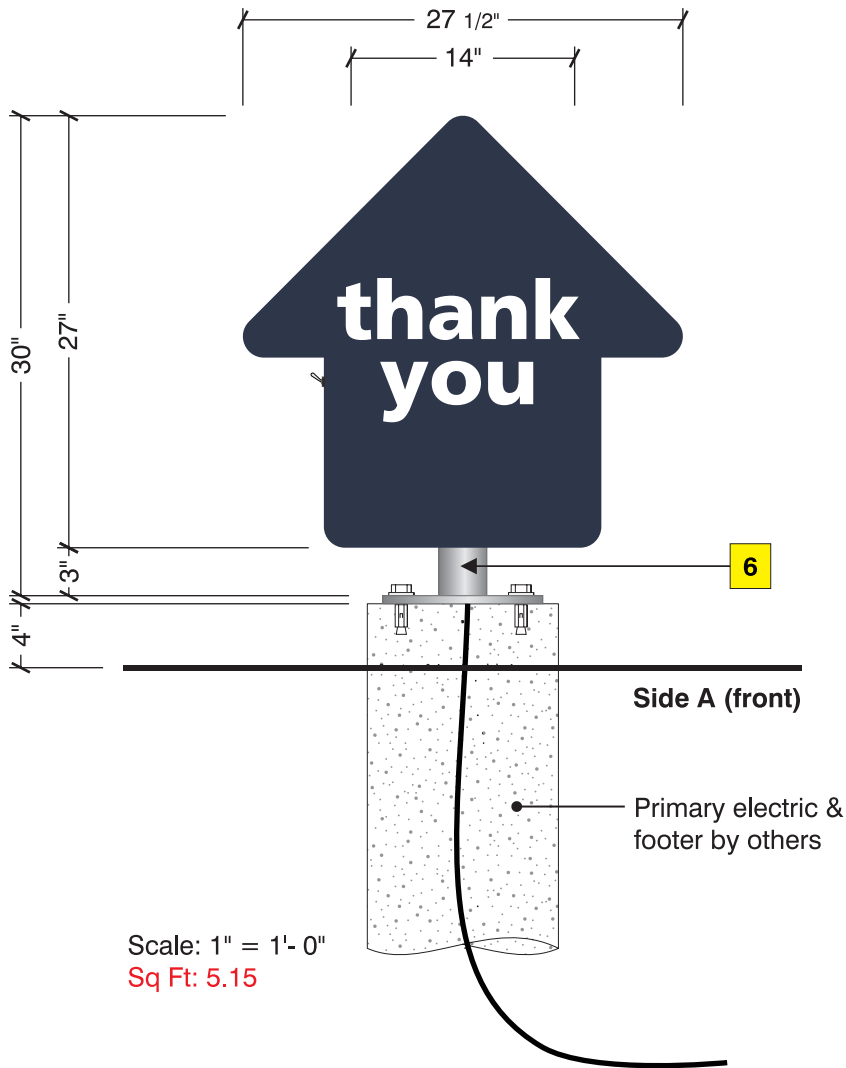
- 6 8" Deep return painted Benjamin Moore 2063-10 & PMS 306 C.

Support

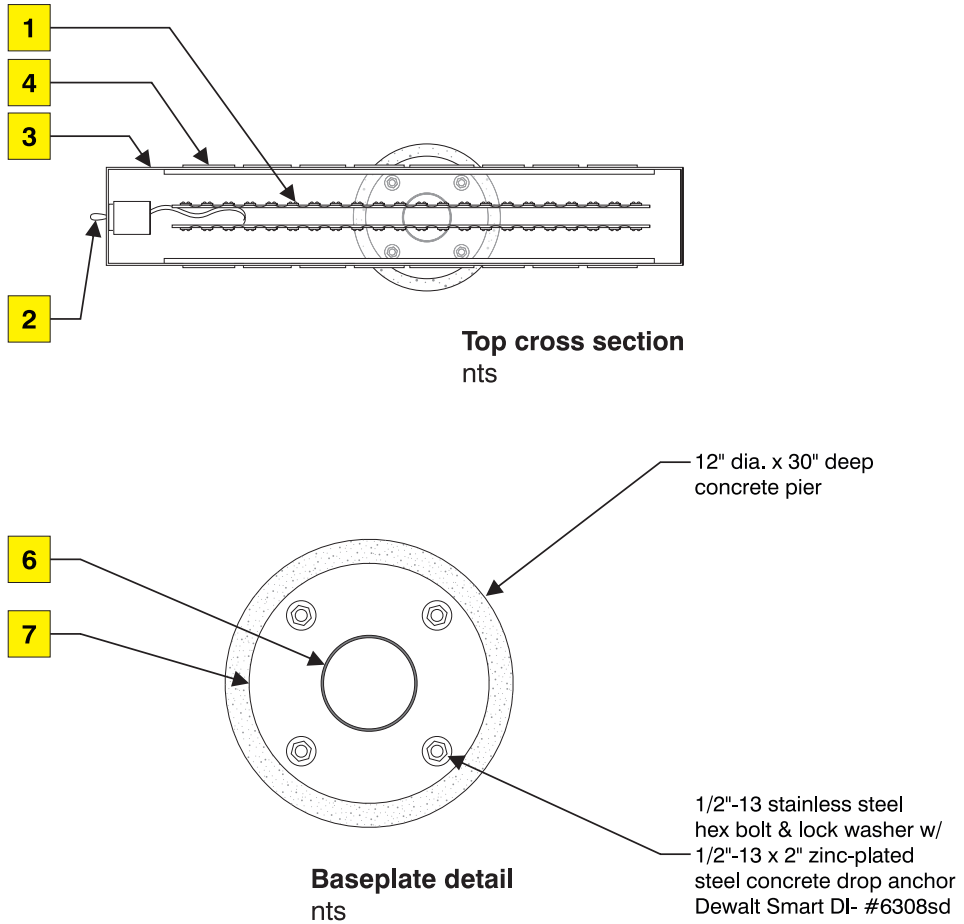
- 7 4" Dia. aluminum post painted MAP Silver 41-342.
- 8 10" Dia. x 1/2" thick aluminum baseplate welded to post painted Silver MAP 41-342.

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11

Revised to comply with sign code



Colors to match

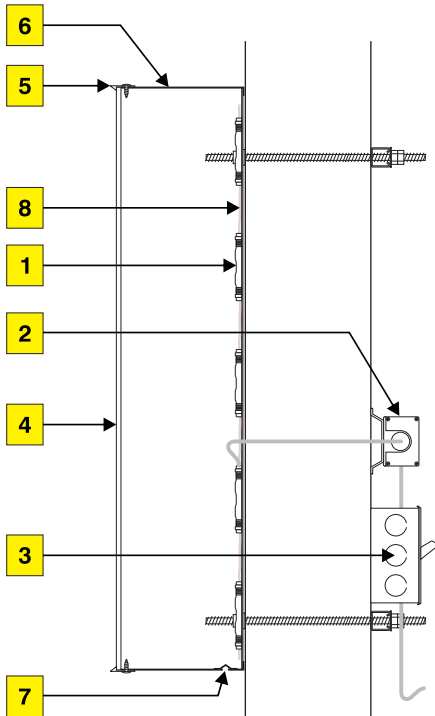
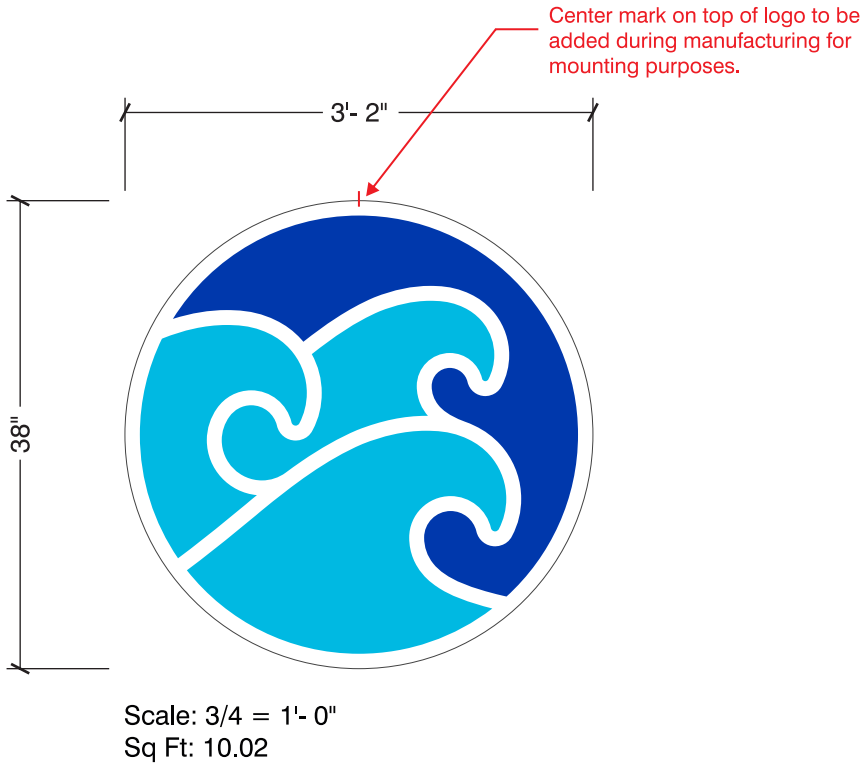


Illumination	
1	Hanley PF-3120 white LEDs.
2	UL Listed disconnect switch.
Faces	
3	.090 Routed aluminum painted Benjamin Moore Old Navy 2063-10.
Letters	
4	1/2" #7328 White plex push-thru prohibition symbol & letters.
Return	
5	8" Deep return painted Benjamin Moore Old Navy 2063-10.
Support	
6	3" Diameter aluminum post painted Silver MAP 41-342.*
7	10" Dia. x 1/2" thick aluminum baseplate welded to post painted Silver MAP 41-342.

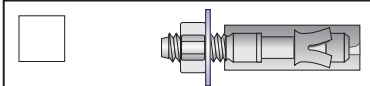
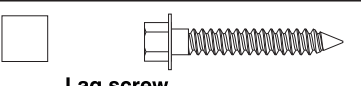
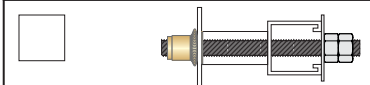
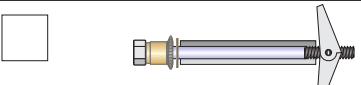
*Note:
Due to the reduced size and weight of this sign,
it is recommended to instead use a 3" dia. post.

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11

Refer to pages 5, 6, 10
& 15 for elevations



Illumination	
1	White LEDs.
2	Remote power supply.
3	Logo to have UL Listed disconnect switch.
Faces	
4	#7328 white acrylic. Colors to match white, PMS 306 C (vinyl: Oracal 8500 Light Blue) & PMS 286 C (viny: Avery A6574-T Ultra Marine Cast 800 Blue. Applied first surface.
5	Logo to have 1" white trim cap.
Returns	
6	3" x .040 Aluminum painted to match PMS 286.
7	1/4" weep holes required.
Backs	
8	White aluminum or ACM.

Mounting	
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access, Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match

 PMS 306 C
(Vinyl) Oracal 8500
Light Blue

 PMS 286 C
(Vinyl) Avery A6574-T
Ultra Marine Cast 800 Blue

 White

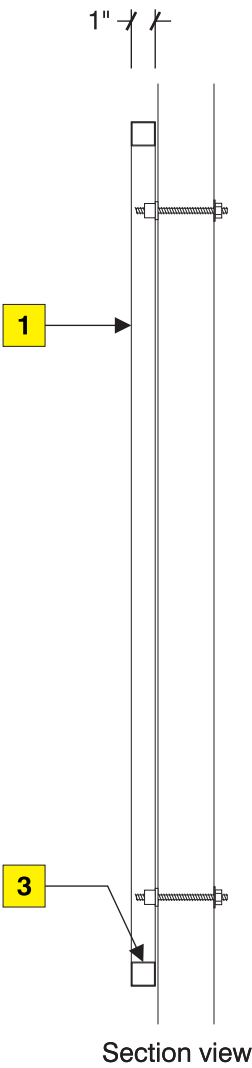
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11



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

Note:
This is a North American Signs
Art Department re-created layout.
Client to provide approved vector
art prior to production.

Face	
1	16 gauge cold rolled steel painted Benjamin Moore Old Navy 2063-10.
2	Digitally printed magnetic overlay applied first surface.
Frame	
3	1" x 11 Guage square steel tube w/ nut inserts for mounting painted Benjamin Moore Old Navy 2063-10.



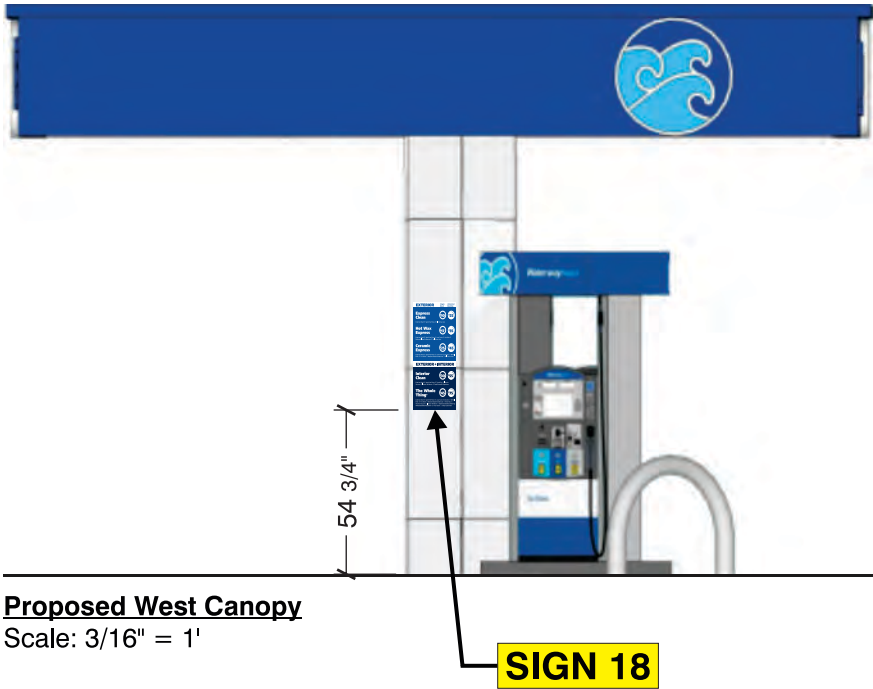
Section view

Colors to match

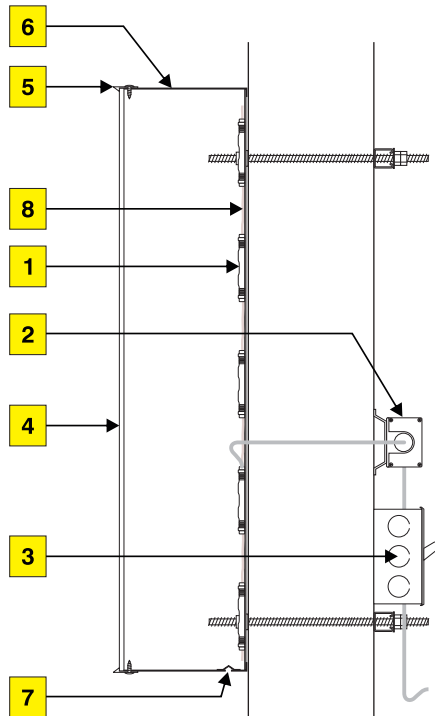
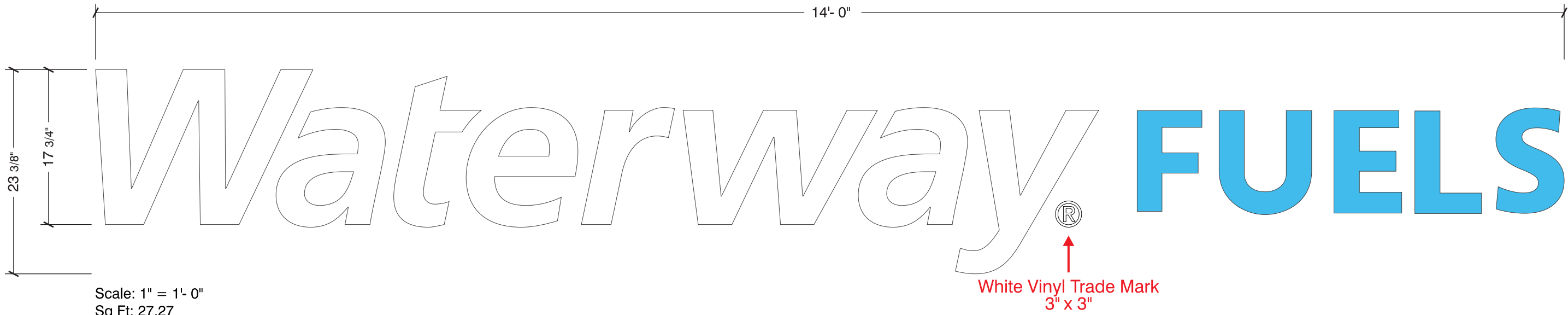
Benjamin Moore
Old Navy 2063-10

PMS 306 C

White



Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



Illumination

1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.

Faces

4	#7328 white acrylic. "FUEL" letters to have PMS 306 C (vinyl Oracal 8500 Light Blue) applied first surface.
5	"Waterway" letters; 1" white Jewel-Lite trim cap. "FUELS" letters; 1" Jewel-Lite trim cap painted to match PMS 306 C.

Returns

6	3" x .040 Aluminum painted to match PMS 286.
7	1/4" weep holes required.

Backs

8	White aluminum or ACM.
---	------------------------

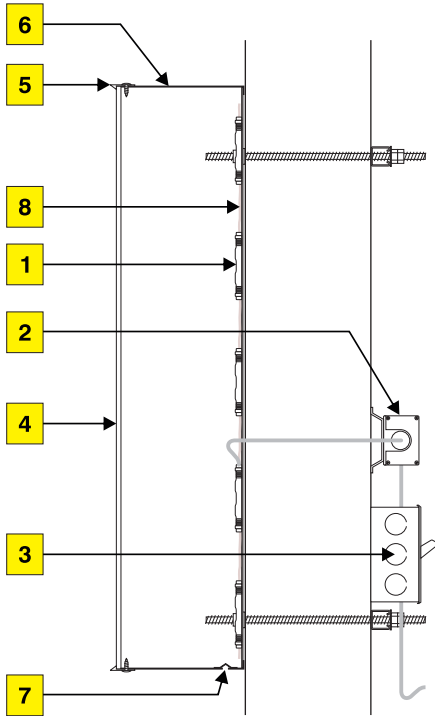
Mounting

 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

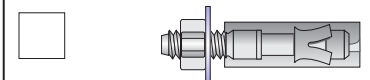
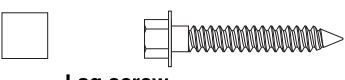
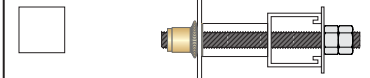
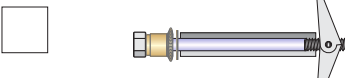
Colors to match

	PMS 306 C (Vinyl) Oracal 8500 Light Blue		PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue
	White		

Sales:	Lisa Koebel
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Art:	GED 8.21.25
Drwg #:	247334-1-11



Illumination	
1	White LEDs.
2	Remote power supplies.
3	Logo & letters to have UL Listed disconnect switches.
Faces	
4	#7328 white acrylic.
5	1" White Jewel-Lite trim cap.
Returns	
6	3" x .040 Aluminum painted Benjamin Moore Old Navy 2063-10.
7	1/4" Weep holes required.
Backs	
8	White aluminum or ACM.

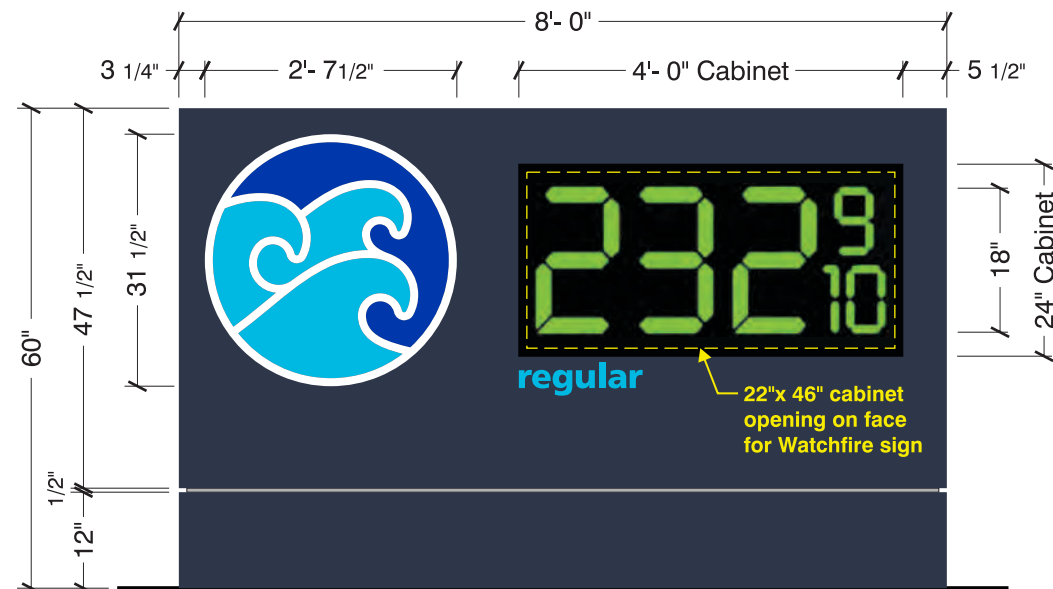
Mounting	
 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 Stud mounted	

Colors to match	
	PMS 306 C (Vinyl) Oracal 8500 Light Blue
	Benjamin Moore Old Navy 2063-10
	White

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11

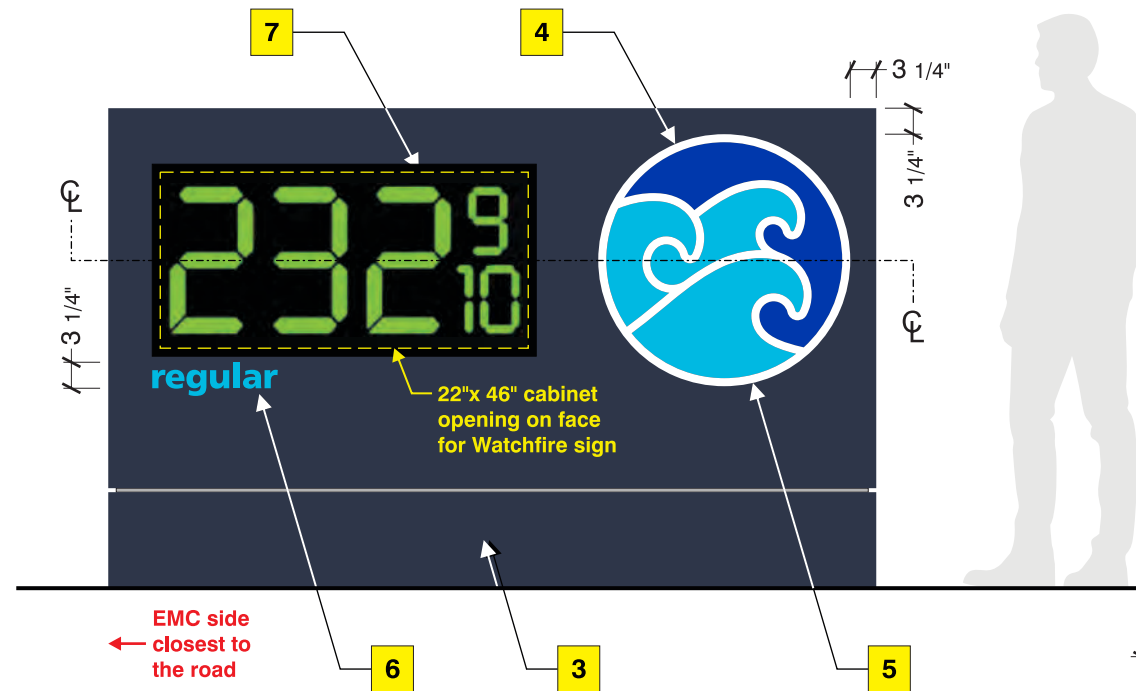
NOTE:
Engineering on next page

Corrections completed up to & including this page

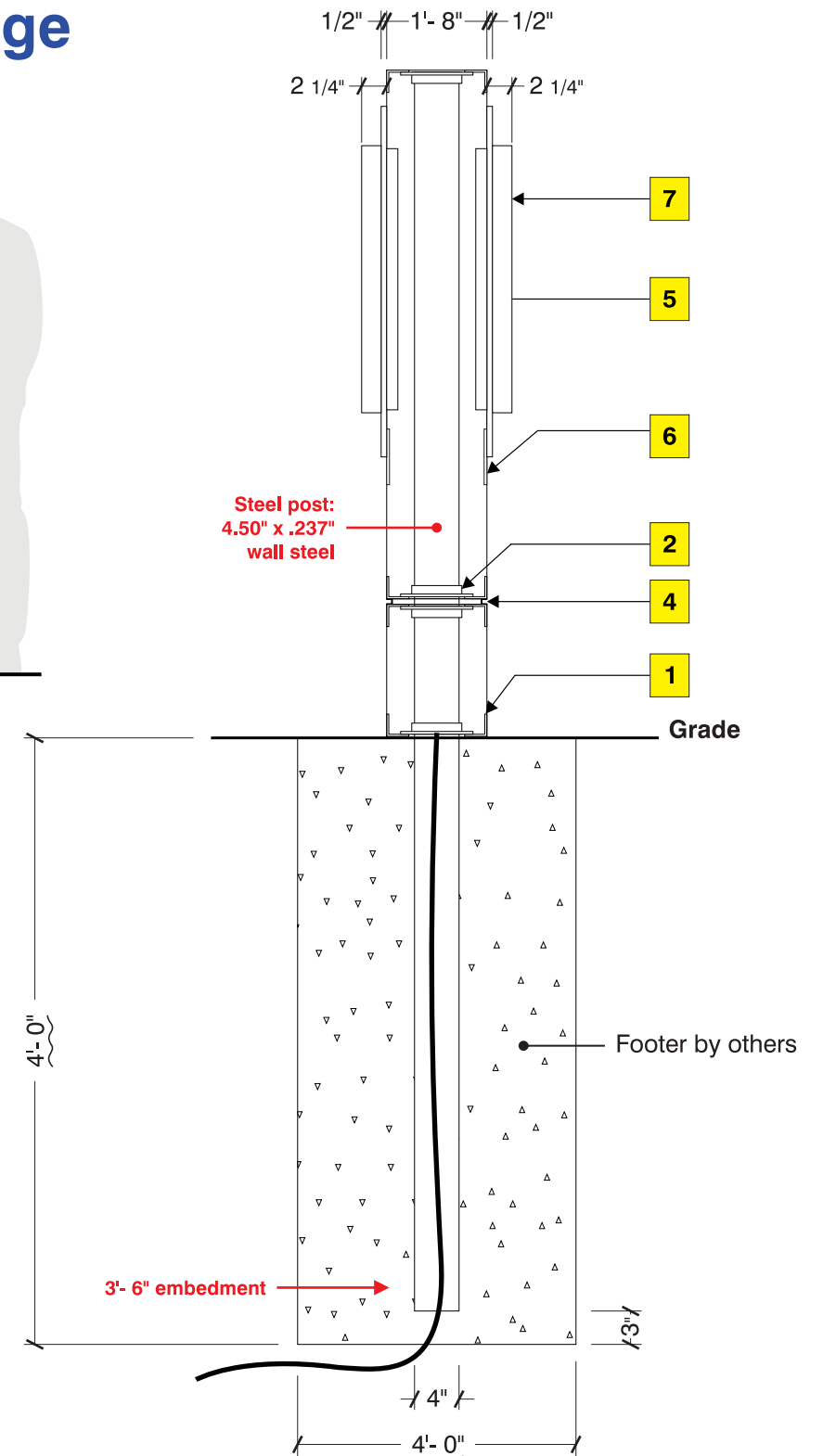


Monument elevation
Scale: 1/2" = 1'-0"

EMC side
closest to
the road →



← EMC side
closest to
the road



Steel post:
4.50" x .237"
wall steel

Grade

Footer by others

Cabinet

1	Frame is 2" x 2" x 3/16" aluminum angle frame.
2	Steel saddles and pole guides for a 5 1/2" O.D. steel pipe.
3	Faces are .125" aluminum w/ routed openings for EMCs, logo and sub copy. Faces attached with Lords 406 adhesive. Cabinet is painted Benjamin Moore Old Navy 2063-10.
4	Cabinet to have a 1/2" reveal inset 1" all sides. Painted Silver MAP 41-342.
5	Logo is 3/4" acrylic pushed thru 1/2". Logo to have blue vinyl colors 1st surface & white diffuser vinyl applied 2nd surface.
6	Routed sub-copy backed w/ polycarbonate. Routed sub-copy w/ Oracal 8500 Light Blue vinyl applied first surface.
7	Digital EMC price displays bolt to face of cabinet.
8	Two (2) Watchfire EMC PWPRC green monochrome price displays 24" x 48" x 3". EMC price displays partially inset in frame. Face of EMCs to sit 2 1/4" proud of cabinet face.

Colors to match

	PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue		Benjamin Moore Old Navy 2063-10
	PMS 306 C (Vinyl) Oracal 8500 Light Blue		Silver MAP 41-342 Akzo Nobel

NOTE
LED Illumination With Internal Power Supplies
External Disconnect Switch.

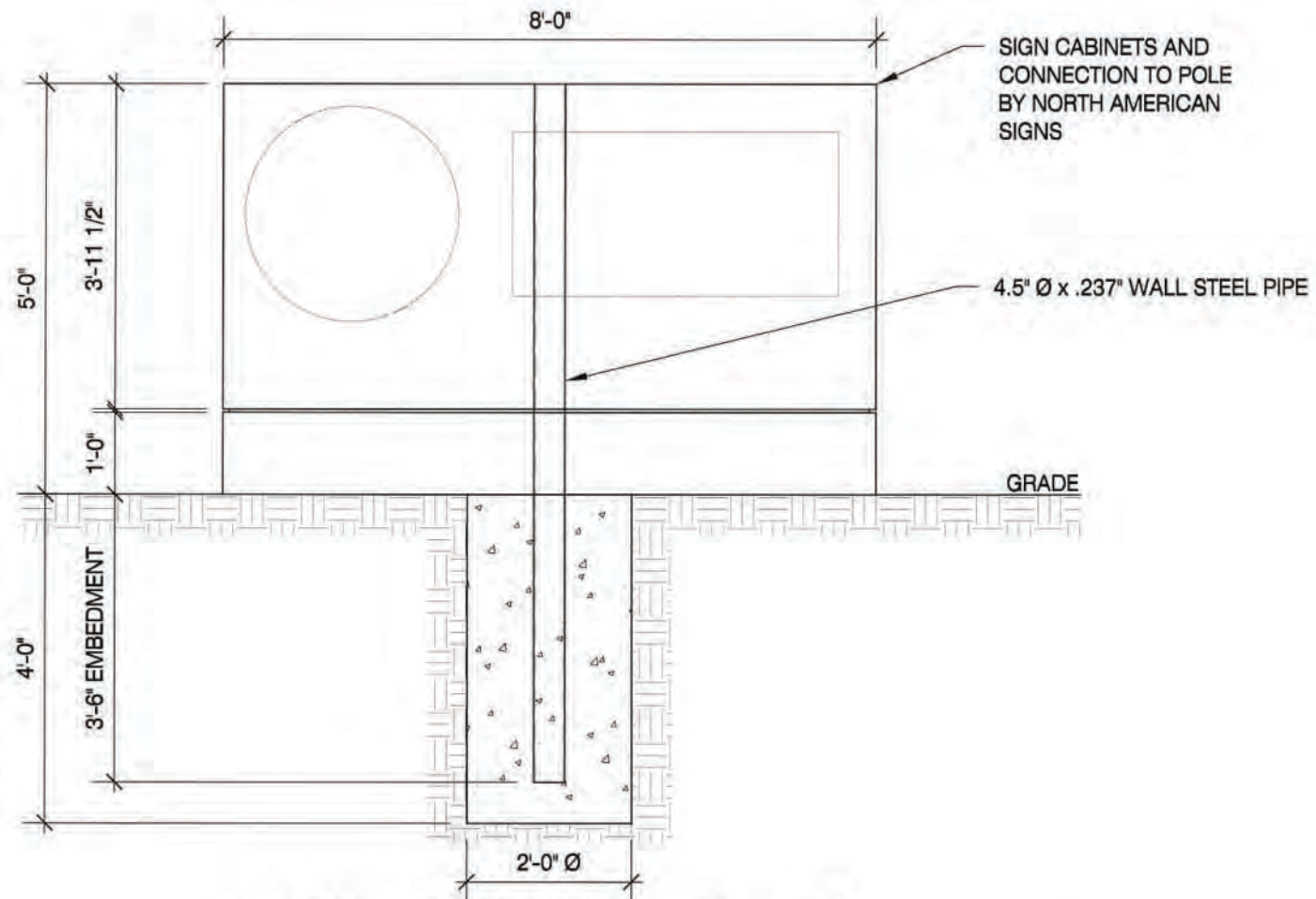
Communications:
POS / Campus Interface for Pricewatcher
Low Frequency Radio

Monument side elevation
Scale: 3/4" = 1'-0"

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.28.25
Drwg #:	247334-1-11

GROUND SIGN DESIGN SPECIFICATIONS:

1. REFER TO SIGN COMPANY'S DRAWINGS FOR MORE DETAILS. ALL DESIGNS, DETAILING FABRICATION AND CONSTRUCTION SHALL CONFORM TO:
2018 IBC
ACI
AISC
AMERICAN WELDING SOCIETY
LOCAL BUILDING CODES & ORDINANCES
2. CONCRETE: 2500 PSI @ 28 DAYS
3. STD. STEEL PIPE SECTION: ASTM A53 GRADE B (Fy=35 KSI), U.N.O.
4. STEEL PIPE SECTION (> 20" Ø): ASTM A252 GRADE 3 (Fy=42 KSI MIN.) U.N.O.
5. HSS ROUND SECTION: ASTM A500 GRADE B (Fy=42 KSI) U.N.O.
6. HSS SQUARE/RECTANGULAR SECTION: ASTM A500 GRADE B (Fy=46 KSI)
7. W SHAPES: ASTM A992 (Fy = 50 KSI)
8. ANCHOR BOLTS: ASTM F1554 GRADE 36 U.N.O. (ALTERNATES GRADE 55 & 105)
9. CONNECTION BOLTS: ASTM A325
10. THREADED RODS: ASTM A193 GRADE B7
11. STEEL ANGLES, CHANNELS, STRUCTURAL SHAPES & PLATES ASTM A36
12. REINFORCING: GRADE 60 ASTM A615
13. PROVIDE A MINIMUM OF THREE INCHES OF CONCRETE COVER OVER EMBEDDED STEEL.
14. THE CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY.
15. NO FIELD HEATING FOR BENDING OR CUTTING OF STEEL SHALL BE ALLOWED WITHOUT THE ENGINEER'S APPROVAL.
16. WELDING ELECTRODES: E70XX
17. ALLOWABLE VERTICAL SOIL BEARING PRESSURE ASSUMED: 2000 PSF
18. ASSUMED HORIZONTAL (PASSIVE PRESSURE) ASSUMED AT 150 PSF/FT OF DEPTH. ISOLATED LATERAL BEARING FOUNDATIONS FOR SIGNS NOT ADVERSELY AFFECTED A 1/2" MOTION AT THE GROUND SURFACE DUE TO SHORT TERM LATERAL LOADS SHALL BE PERMITTED TO BE DESIGNED USING TWO TIMES THE TABULATED CODE VALUES.
19. ALL FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH.
20. EXCAVATION SHALL BE FREE OF LOOSE SOIL BEFORE POURING CONCRETE.
21. WELDERS SHALL BE CERTIFIED FOR THE TYPE OF WELDING.
22. ADEQUATELY BRACE POLE(S) UNTIL CONCRETE HAS SET UP FOR 14 DAYS.
23. GROUT UNDER BASE PLATES WITH NON-SHRINK GROUT.
24. THIS ENGINEER DOES NOT WARRANT THE ACCURACY OF DIMENSIONS FURNISHED BY OTHERS.
25. ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION.
26. THIS DESIGN IS FOR THE INDICATED ADDRESS ONLY, AND SHOULD NOT BE USED AT OTHER LOCATIONS WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
27. DESIGN OF DETAILS AND STRUCTURAL MEMBERS NOT SHOWN, BY OTHERS.



FRONT ELEVATION W/ CAISSON FOUNDATION

SCALE: N.T.S.

WIND DATA

Building Code	2018 IBC	Importance Factor, I	1.0	Damping Ratio, β	0.005
Wind Load Criteria	ASCE 7-16	Directionality Factor, K_d	0.85	Natural Frequency, n_1	7.72 Hz
Wind Speed, V	110 mph	Topography Factor, K_{zt}	1.0	Gust Effect Factor, G	0.85
Exposure Category	C	Base Pressure, $q(z)/K_z$	15.8 psf	ASD Wind Load Factor, γ	0.6
Wind Pressure Override per Jurisdiction Requirement	0 psf				

Notes: (1) Loading values in chart below are based upon average K_z values for each segment. Actual values are calculated on hidden sheet using derived V-M equations. Chart is provided for information purposes only.
(2) Wind directionality (K_d) factor is 0.95 for Single Pole (Round) segments instead of 0.85. The C_f value from Fig. 6-21 has been increased by 0.95/0.85 to account for this variation.
(3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ .

DEFLECTION ANALYSIS

Deflection Limit	H/60
Deflection at 0.7*W	0.08 in
Deflection Ratio	H/735

GEOMETRY INPUT

Monument: Yes						(3) Wind pressures listed below have already been multiplied by the ASD Wind Load Factor, γ .											
No. of Poles		1		No. of Footings		1											
Section	Location	Type	Height	Width	Horiz. Offset	Area	Top Elev.	Centroid	K_z	C_f	Wind Press.	Support Pole Loads			Footing Loads		
			ft	ft	ft	sq ft	ft	ft			psf	Trib. Factor	Shear kips	Moment k-ft	Trib. Factor	Shear kips	Moment k-ft
1	Base	Single Pole w/ Cabinet	1.00	8.00		8.0	1.0	0.6	0.85	1.32	15.1	1.0	0.1	0.1	1.0	0.1	0.1
2		Single Pole w/ Cabinet	0.04	7.83		0.3	1.0	1.0	0.85	2.16	24.6	1.0	0.0	0.0	1.0	0.0	0.0
3		Single Pole w/ Cabinet	3.96	8.00		31.7	5.0	3.2	0.85	1.55	17.6	1.0	0.6	1.8	1.0	0.6	1.8
Overall Height:			5.00 ft		Summation based upon averages above:												
					Actual base reactions based upon V-M equations:												
					0.7 1.9 0.7 1.9												

SUPPORT POLE DESIGN SUMMARY

Base Elev. ft	Section	Axis	Required Strength Values (ASD)				Allowable Strength Values (ASD)				Unity Ratios				Interaction Ratios		Status
			V_r kips	M_r kip-ft	T_r kips	P_r kips	V_c kips	M_c kip-ft	T_c kips	P_c kips	V_r/V_c	M_r/M_c	T_r/T_c	P_r/P_c	P-M	P-M-V-T	
0.00	4.5" Ø x 0.237" Wall	Strong	0.7	1.9	1.1	0.5	20.7	7.1	6.6	45.0	3.3%	27.3%	16.5%	1.0%	28.3%	0.0%	✓

FOUNDATION DESIGN SUMMARY

Type	Diameter ft	Width ft	Thickness ft	Length ft	Depth ft	Volume CY	Reinforcing	Status	Allowable Soil Pressure
✓ Caisson	2.00	--	--	--	4.00	0.47		OK	300 psf/ft

MONUMENT CALCULATIONS

SCALE: N.T.S.

NOTES

- 1.) SEE MANUFACTURERS DRAWINGS FOR ADDITIONAL DETAILS AND DIMENSIONS.
- 2.) SIGN CABINET AND CONNECTION BY NORTH AMERICAN SIGNS.

- * CLIENT - NORTH AMERICAN SIGNS
- * 2018 IBC
- * RISK CATEGORY II
- * 110 MPH WIND SPEED, EXP. C
- * (1) POLE, (1) FOOTING

MBI

MBI COMPANIES INC.
299 N. WEISGARBER RD.
KNOXVILLE, TN 37919
PHONE 865.584.0999
SIGN-ENGINEER.COM

PROJECT:
100 NW PRYOR RD, LEE'S SUMMIT, MO 65081 JACKSON COUNTY

DRAWING TITLE:

WATERWAY

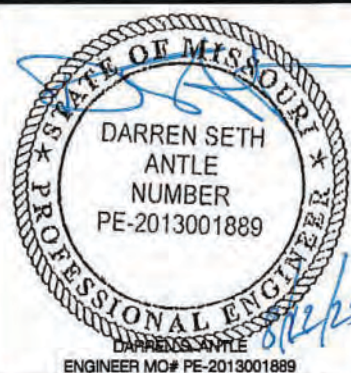
DRAWN BY: MRW
CHECKED BY: MAH
COMM. NO.: 250113-027-00
DATE: 08/22/2025
MBI COMPANIES INC. - ENGINEERING
MISSOURI STATE CERTIFICATE OF AUTHORITY
E-2004032066-F F00514351

DATE: 08/22/2025

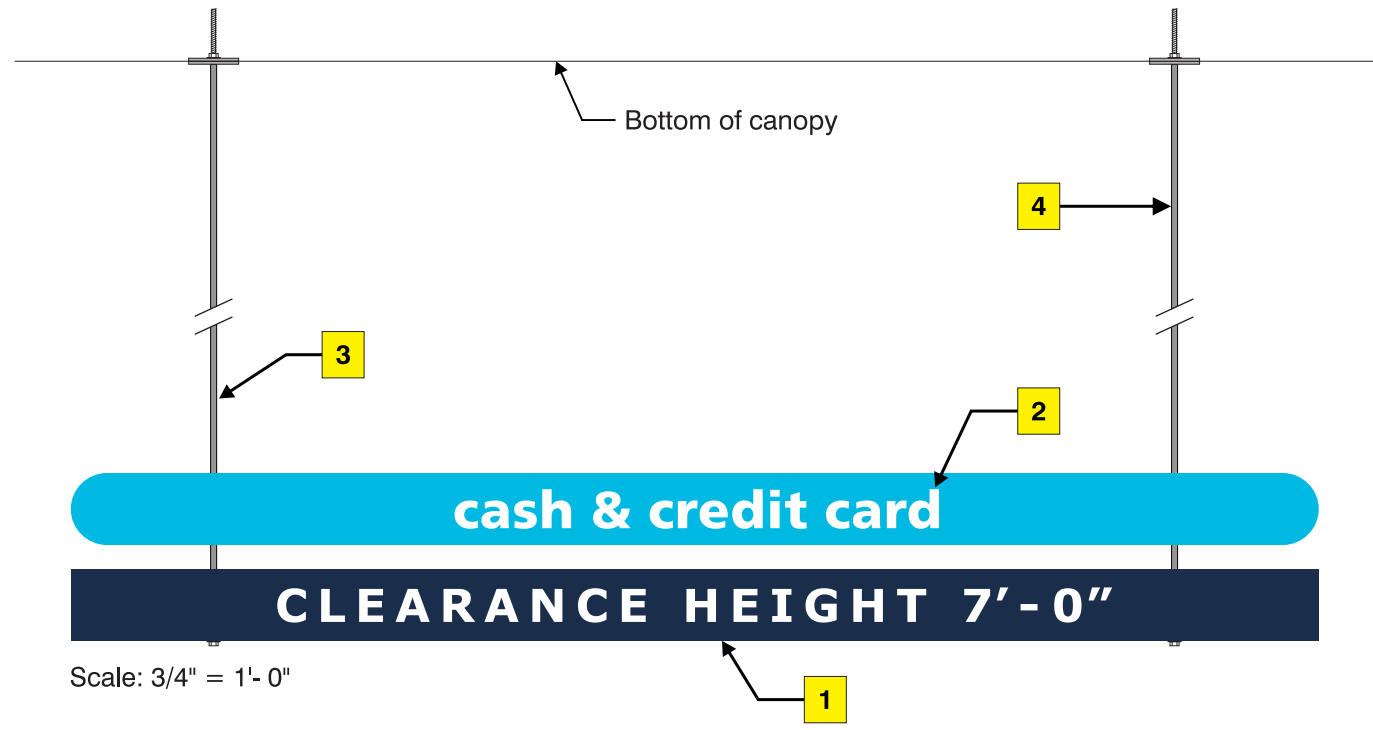
REV #	DATE	DRAWN BY

DRAWING NO.
DWG.

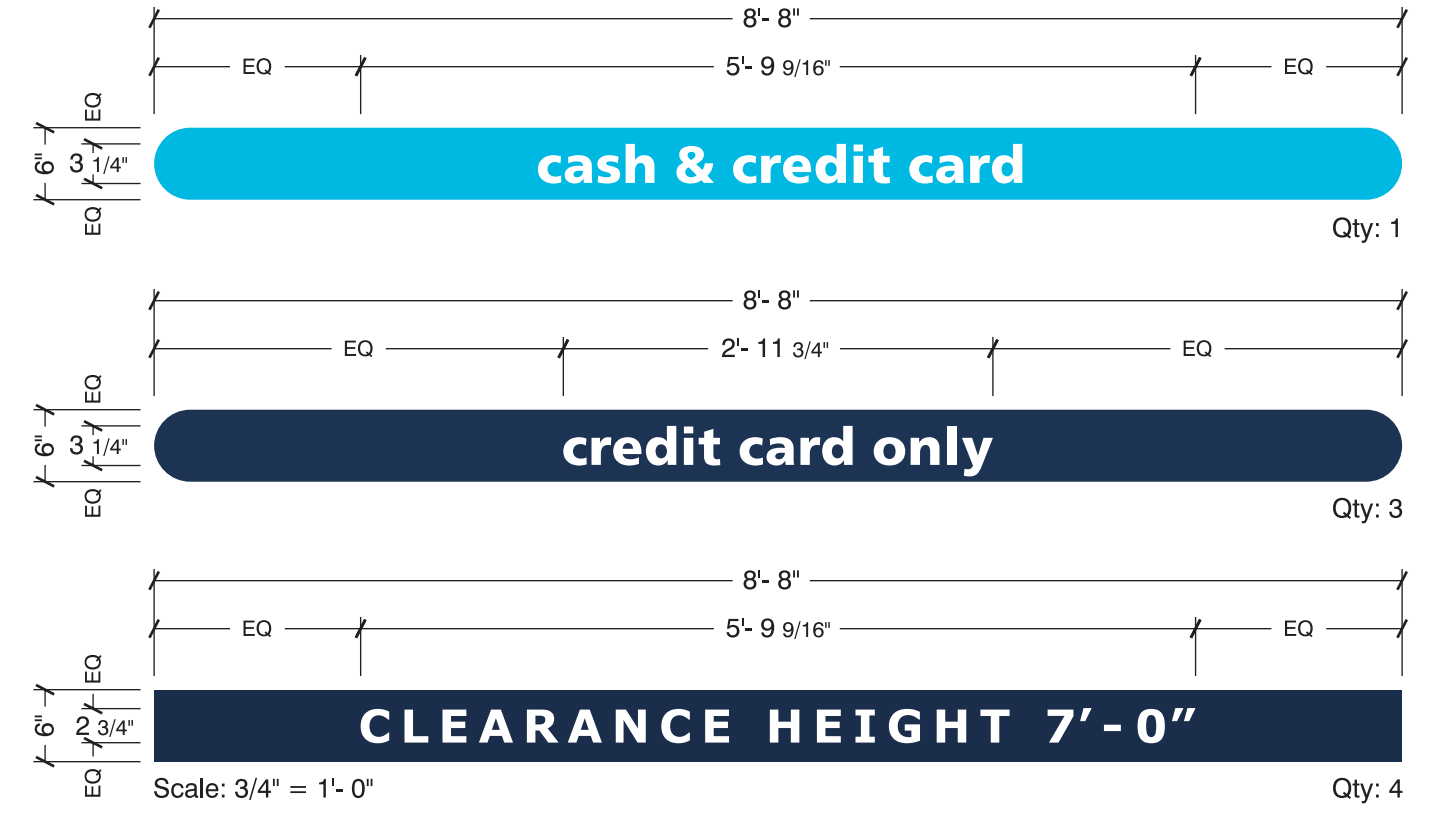
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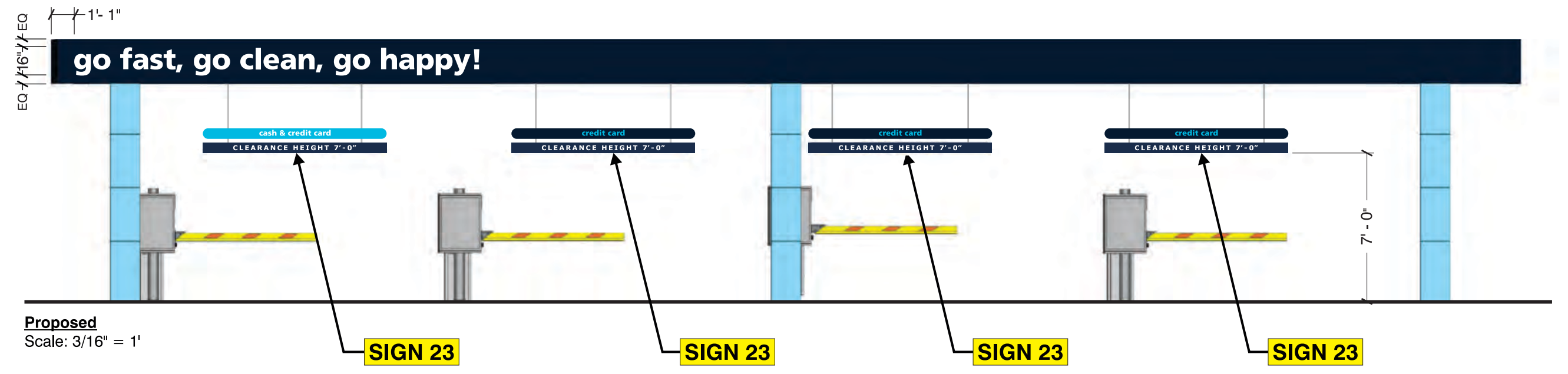
Refer to page 16 for elevation
See mounting detail page 34.


Panel

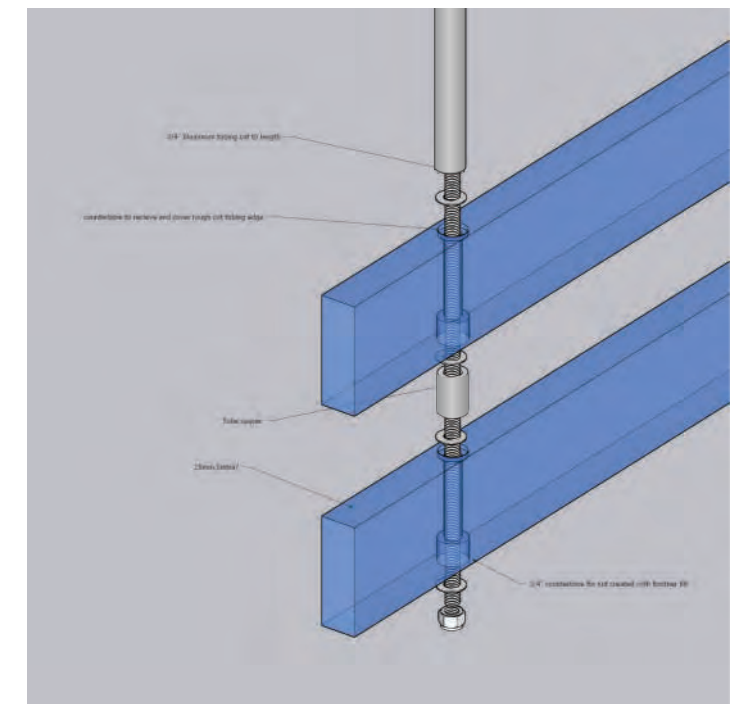
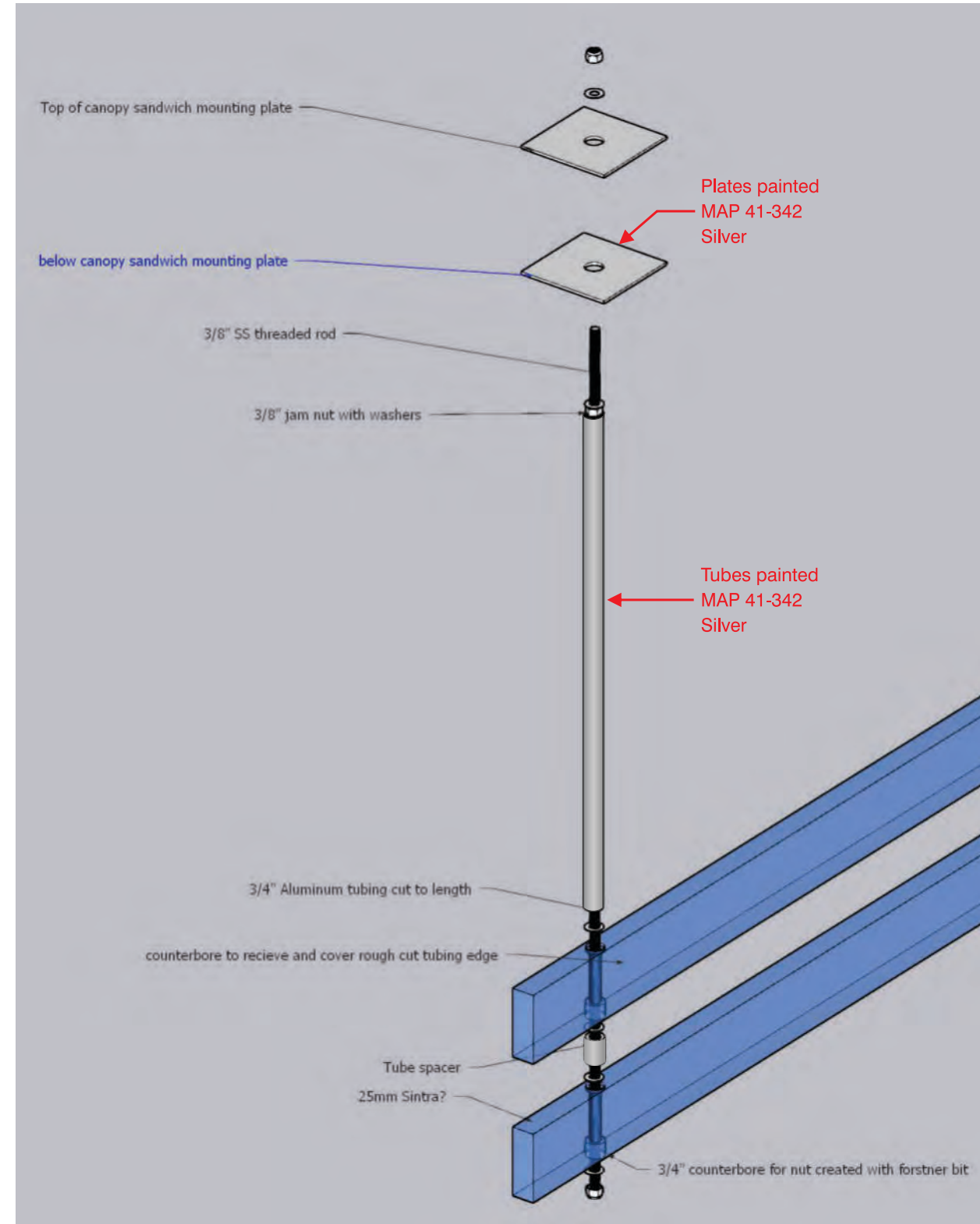
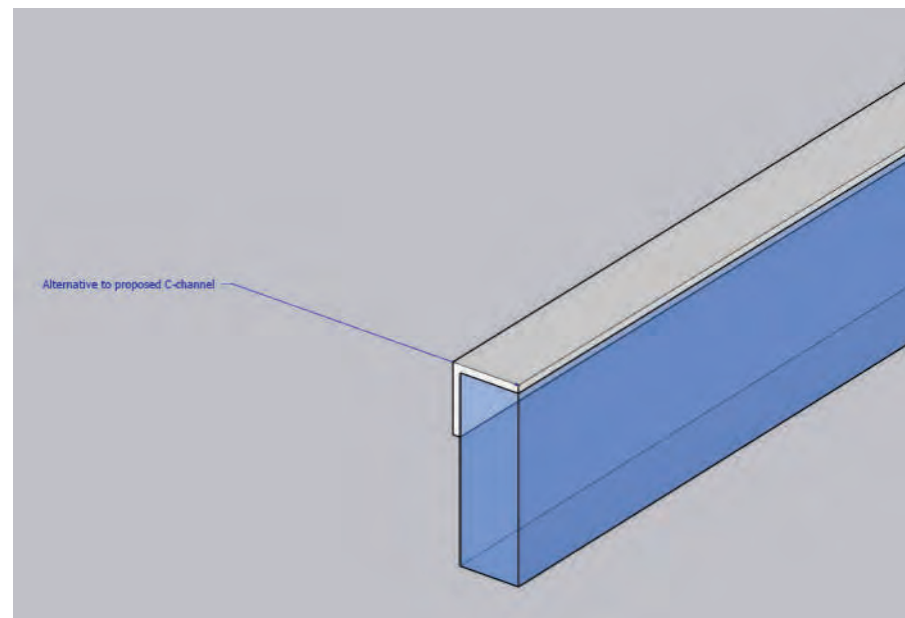
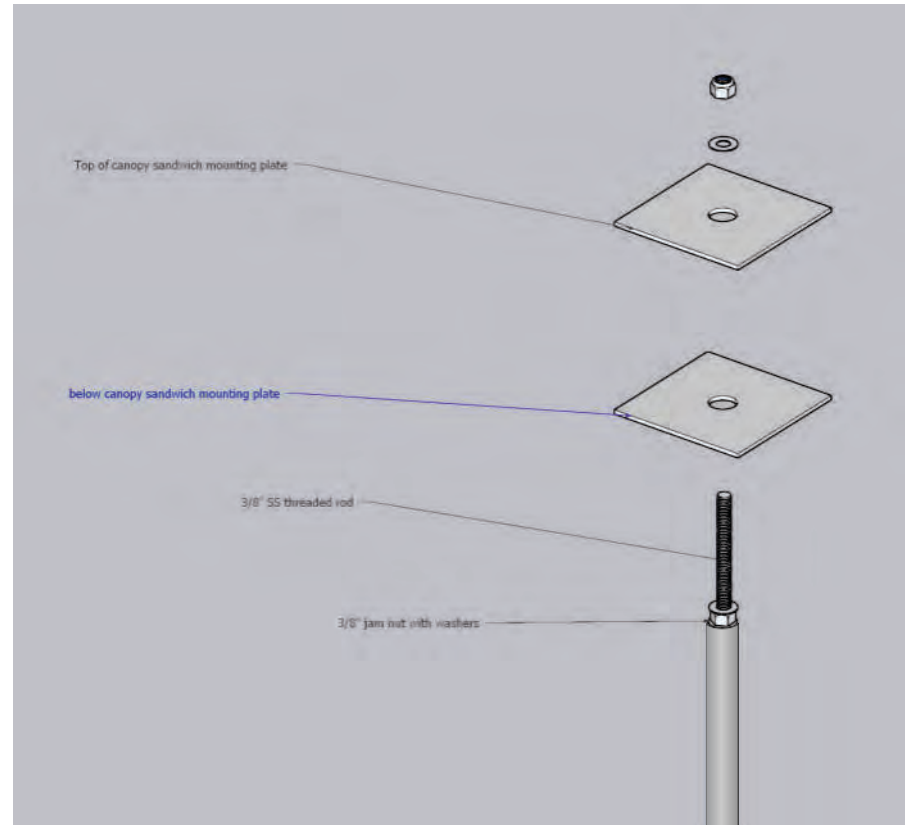
1	25mm material TBD. cash & credit panel painted to match PMS 306C. All others painted Benjamin Moore Old Navy 2063-10.
2	White vinyl copy applied first surface.
3	Threaded rods, washers, nuts, spacers, aluminum tubes & mounting plates. Mounting hardware painted color TBD.


Colors to match

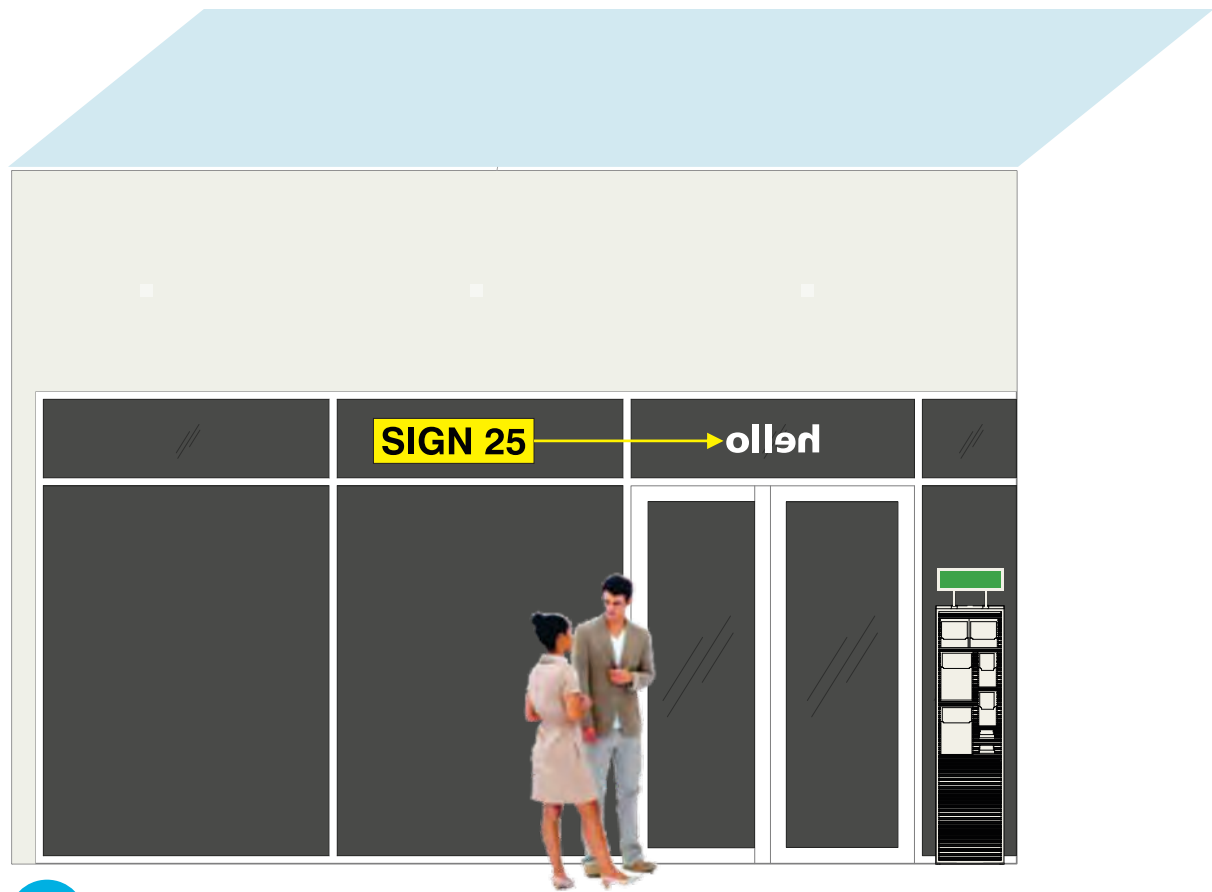
	Benjamin Moore Old Navy 2063-10		PMS 306 C (Oracal 8500 blue)		White		MAP 41-342 Silver
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Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11



Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.21.25
Drwg #:	247334-1-11



A

West Elevation
Scale: 1/4" = 1'

Typical install view from inside of C- store



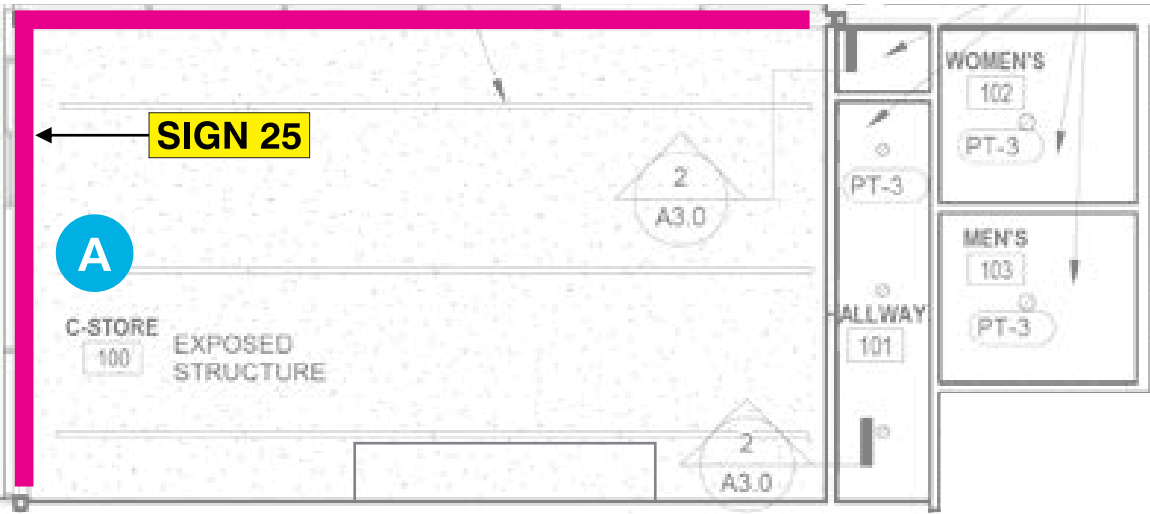
Scale: 3" = 1'- 0"

Letters

- 1** White opaque vinyl applied second surface.

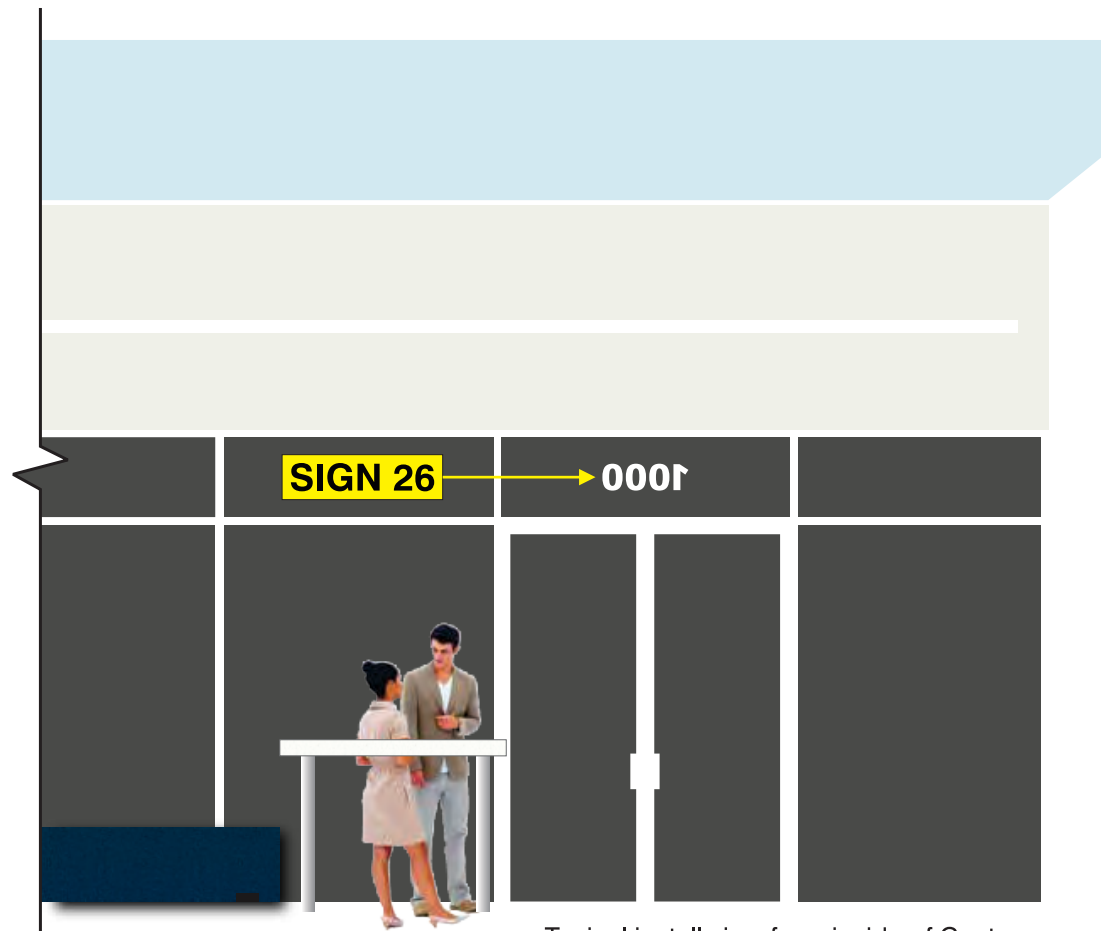
Colors to match

-  Avery
Matte White



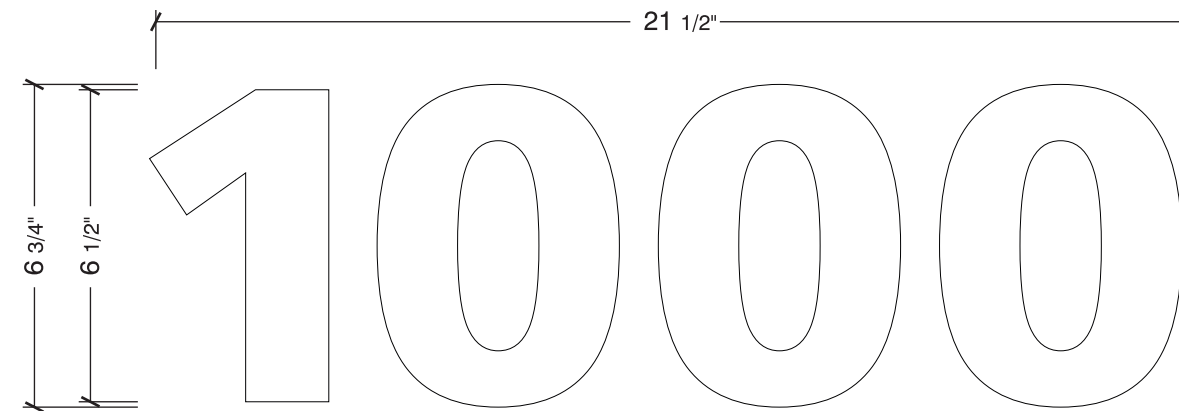
NORTH

Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



B **North Elevation**
Scale: 1/4" = 1'

Typical install view from inside of C- store



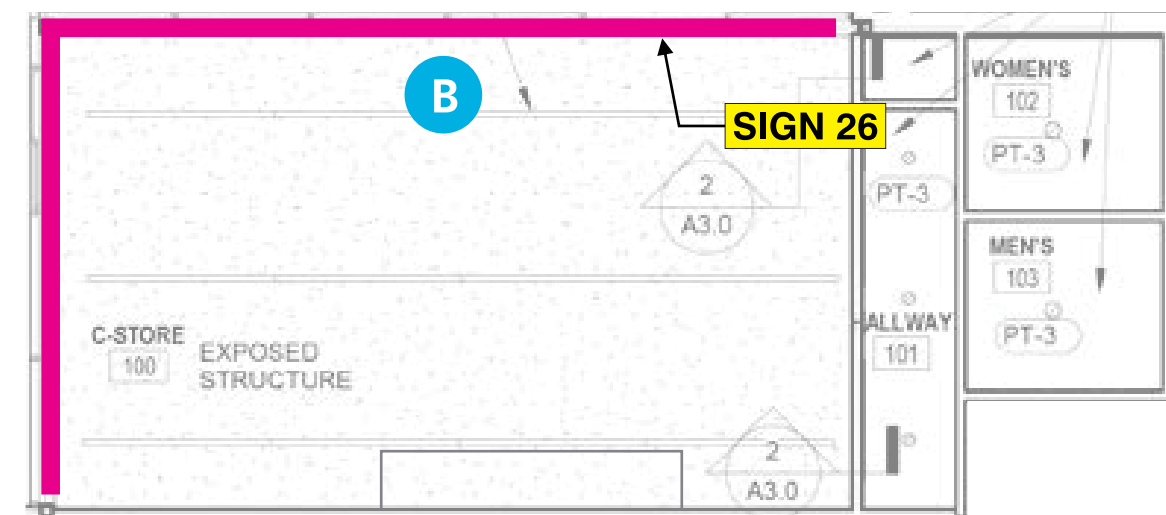
Scale: 3" = 1'- 0"

Letters

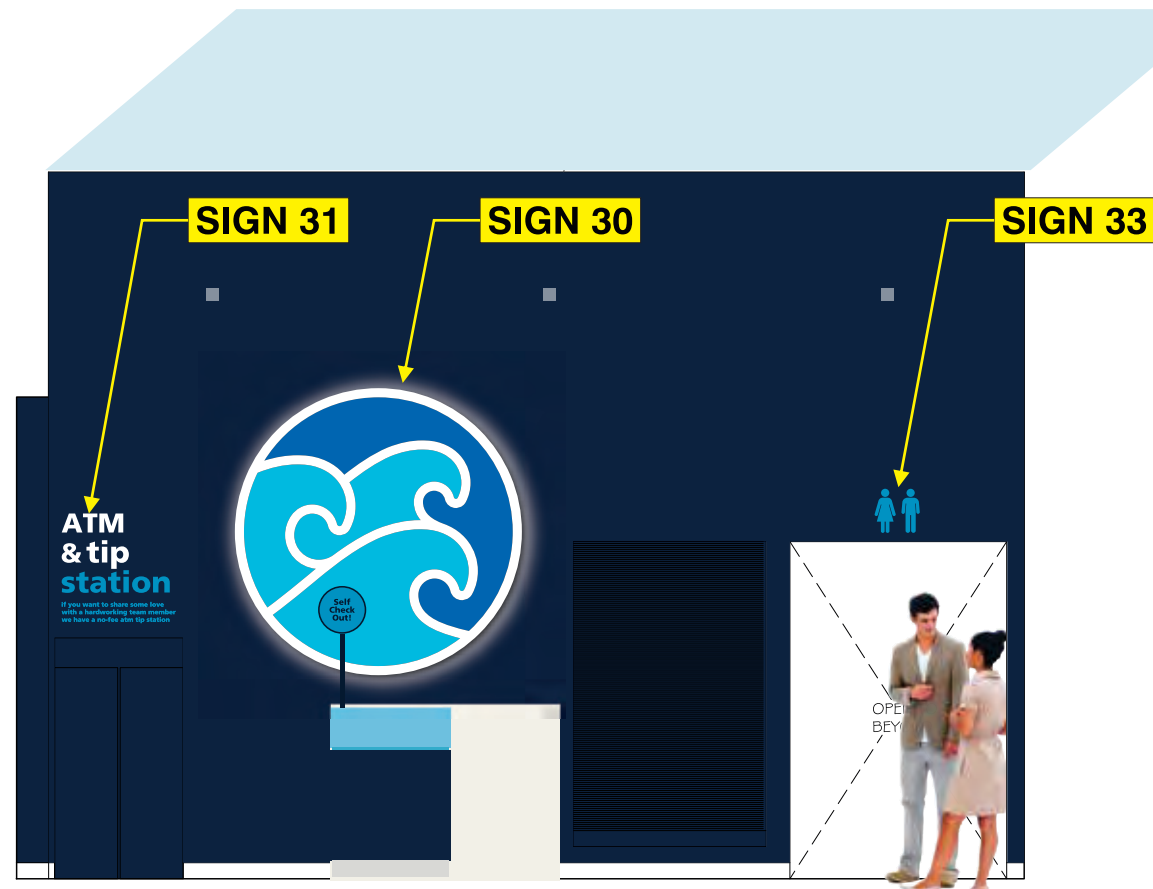
1 White opaque vinyl applied second surface.

Colors to match

 Avery
Matte White



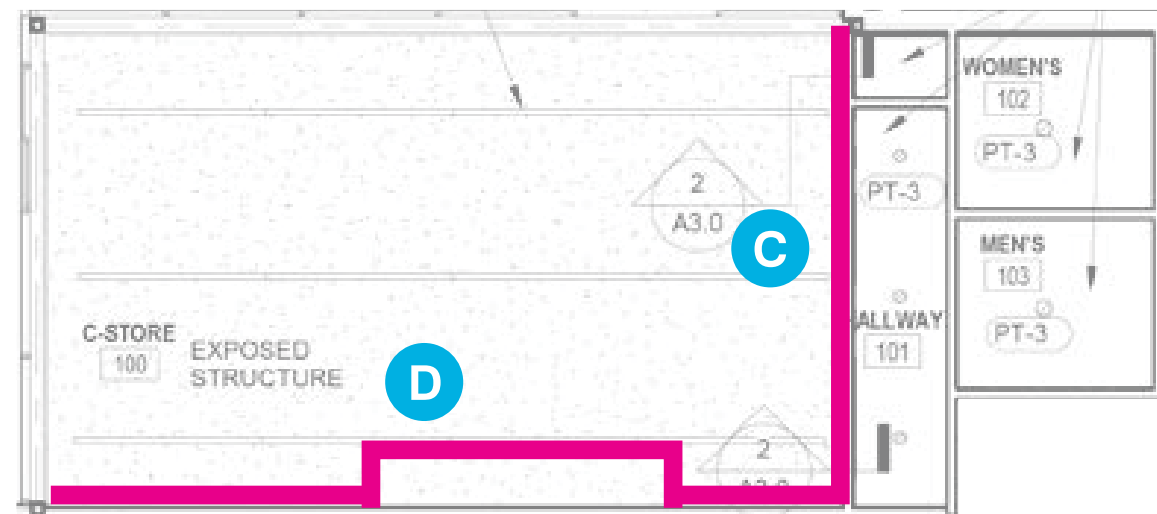
Sales:	Lisa Koebel
PM:	Angela Wilson
Art:	GED 8.18.25
Drwg #:	247334-1-11



C **East Elevation**
nts

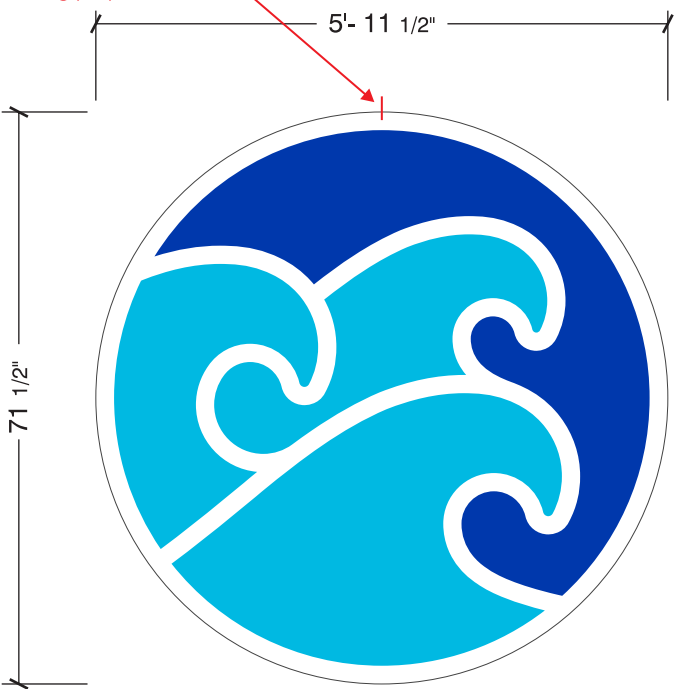


D **South Elevation**
nts

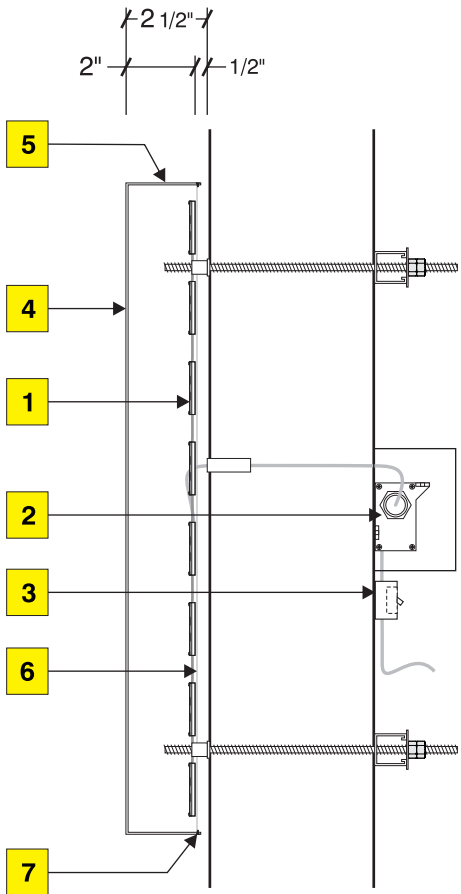
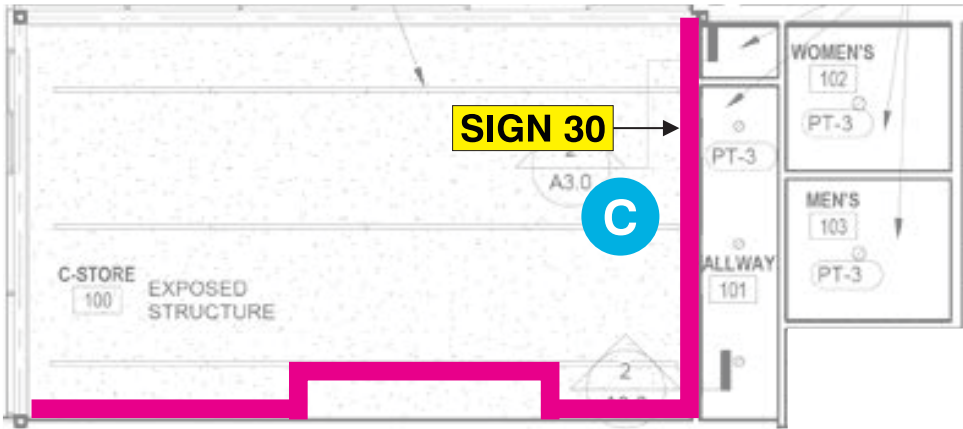


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Center mark on top of logo to be added during manufacturing for mounting purposes.



Scale: 1/2" = 1'-0"
Sq Ft: 35.50



Illumination

- 1 France Trulume UNO 7100K white LEDs.
- 2 France 60W power supply in box.
- 3 UL Listed disconnect switch.

Faces

- 4 .125 Aluminum face w/ vinyl painted to match PMS 286 blue & PMS 306 blue. Vinyls applied first surface.

Returns

- 5 2" x .063" Aluminum return welded to face & painted white. Logo is primed white inside & painted white outside. Seam to have continuous weld & be filled.

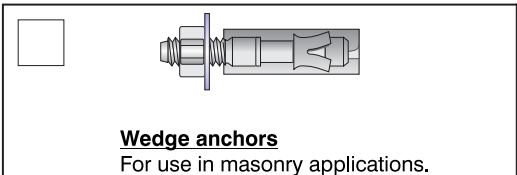
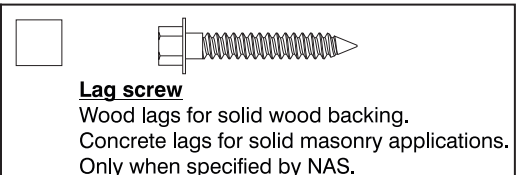
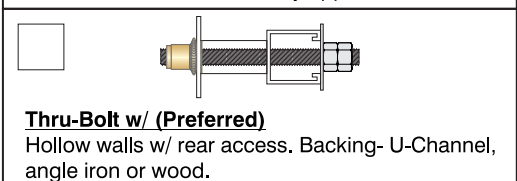
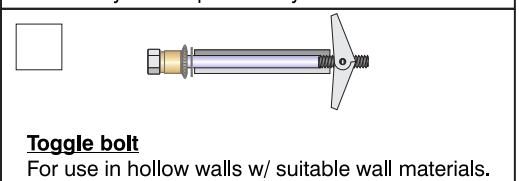
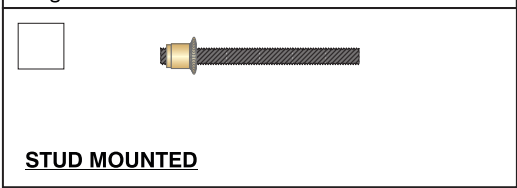
Backs

- 6 Go with a standard reverse lit/halo lit sign design, with 1/2" spacers painted white.
- 7 Flat head screw heads painted white to match return.

Notes:

- 1) Cabinet is for interior application - no weep holes required.
- 2) Sign will be flush mounted to wall - location & AFF TBD.

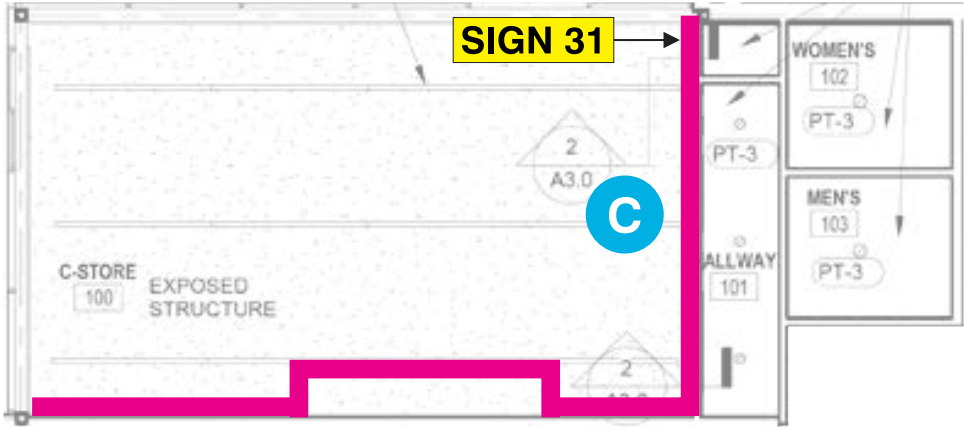
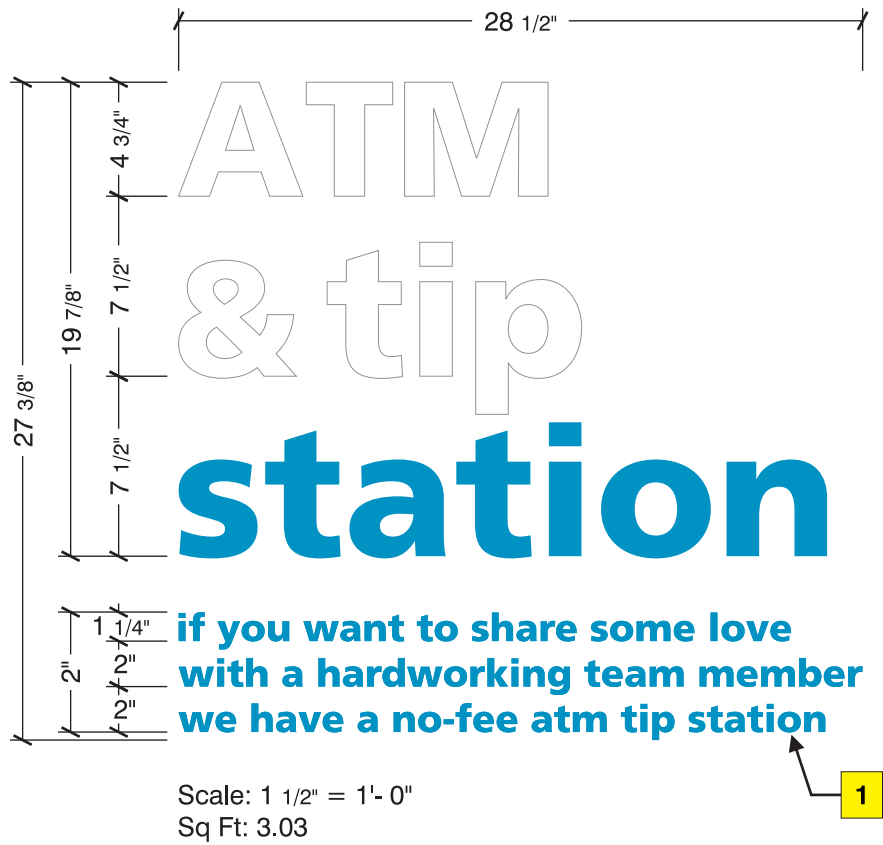
Mounting

 Wedge anchors For use in masonry applications.	 Lag screw Wood lags for solid wood backing. Concrete lags for solid masonry applications. Only when specified by NAS.
 Thru-Bolt w/ (Preferred) Hollow walls w/ rear access. Backing- U-Channel, angle iron or wood.	 Toggle bolt For use in hollow walls w/ suitable wall materials.
 STUD MOUNTED	

Colors to match

 PMS 286 C (Vinyl) Avery A6574-T Ultra Marine Cast 800 Blue	 PMS 306 C (Vinyl) Oracal 8500 Light Blue
 White	

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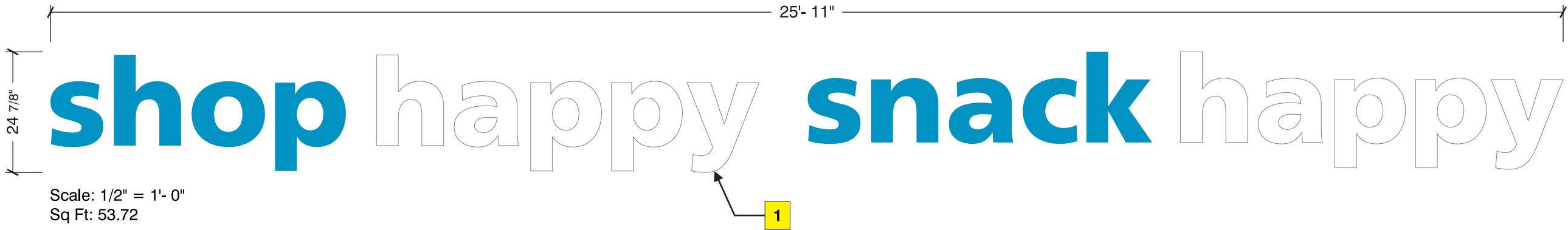
Letters

1	Premium cut cast vinyl letters applied first surface.
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Colors to match

	Avery SC950 Peacock Blue		Avery Matte White
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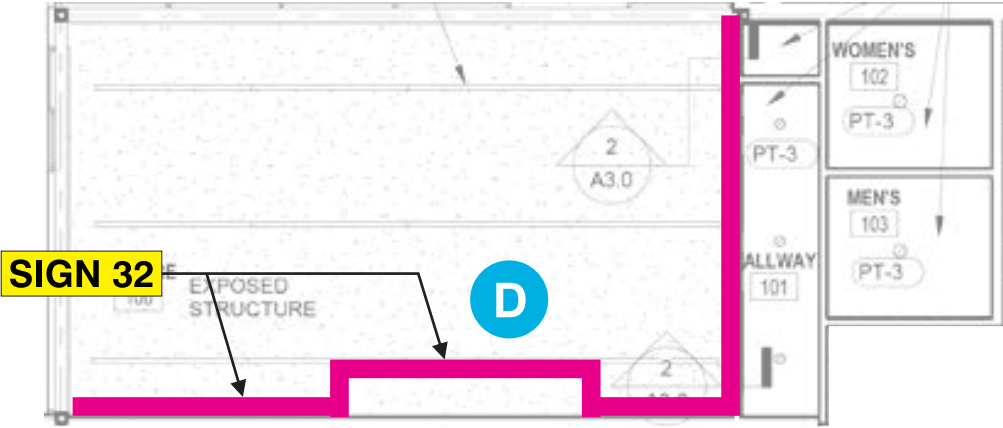
Letters

- 1** Premium cut cast vinyl letters applied first surface.

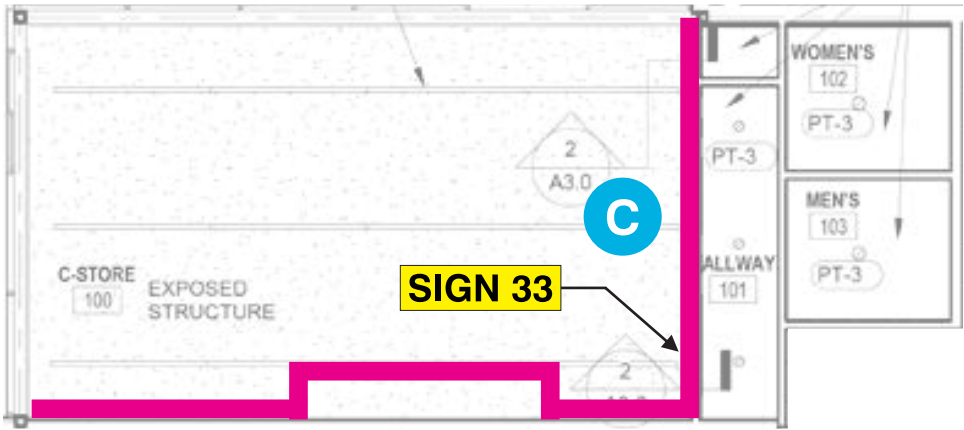
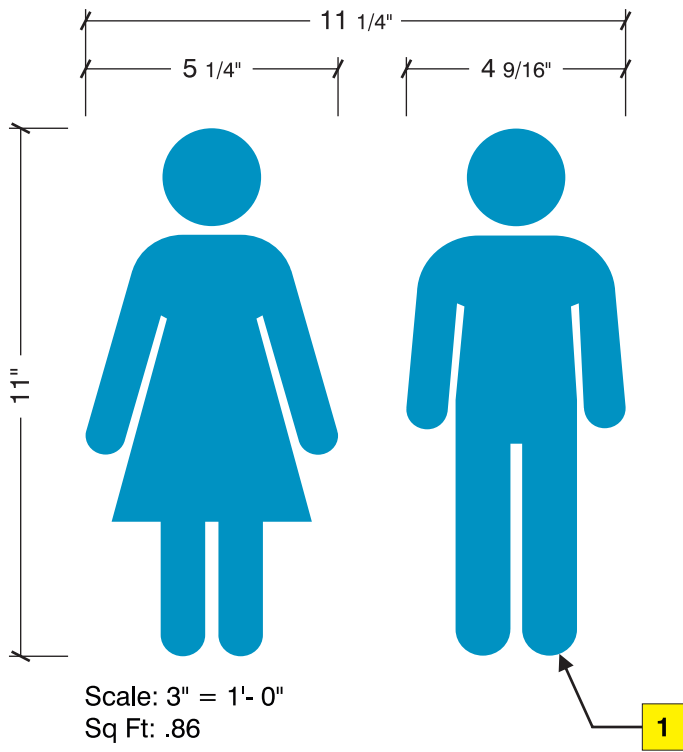
Colors to match

 Avery SC950
Peacock Blue

 Avery
Matte White



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Letters

1 Premium cut cast vinyl letters applied first surface.

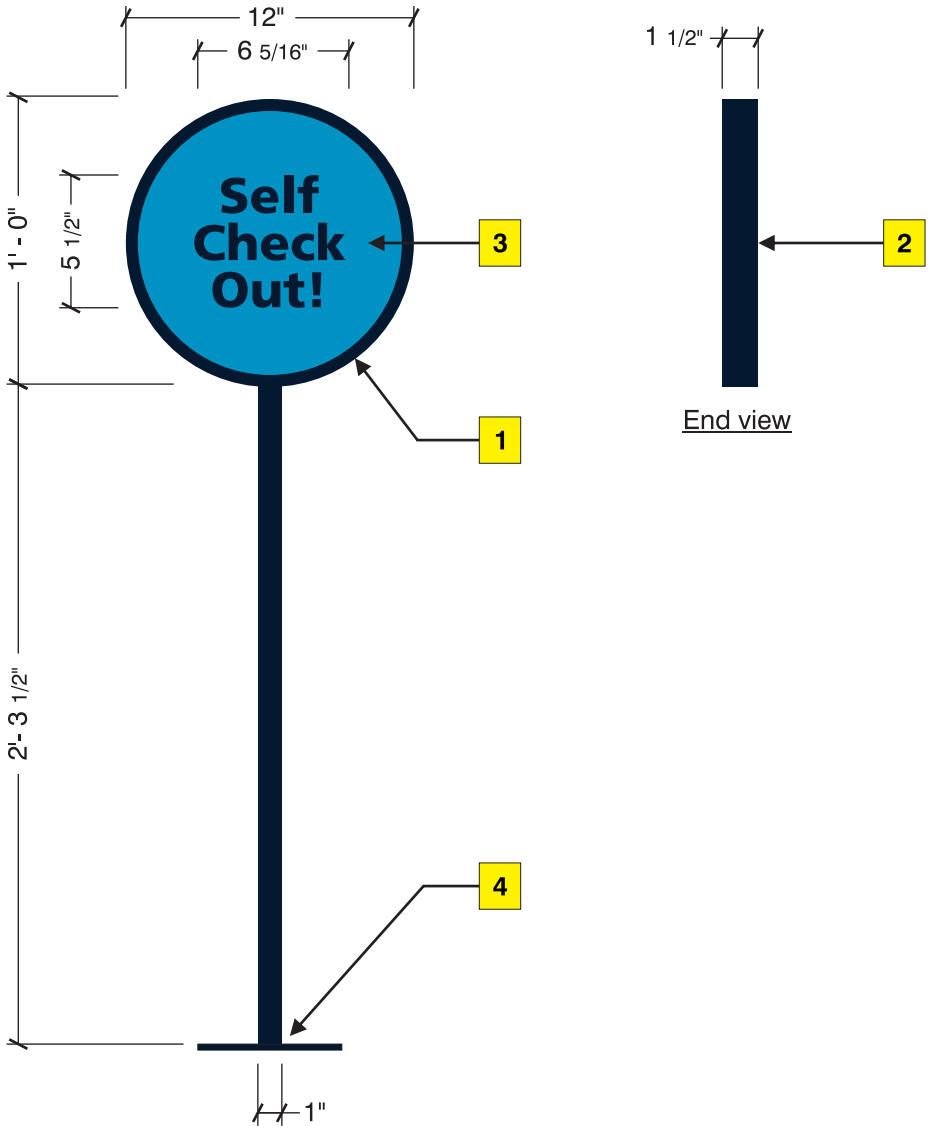
Colors to match

 Avery SC950
Peacock Blue

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Typical install example



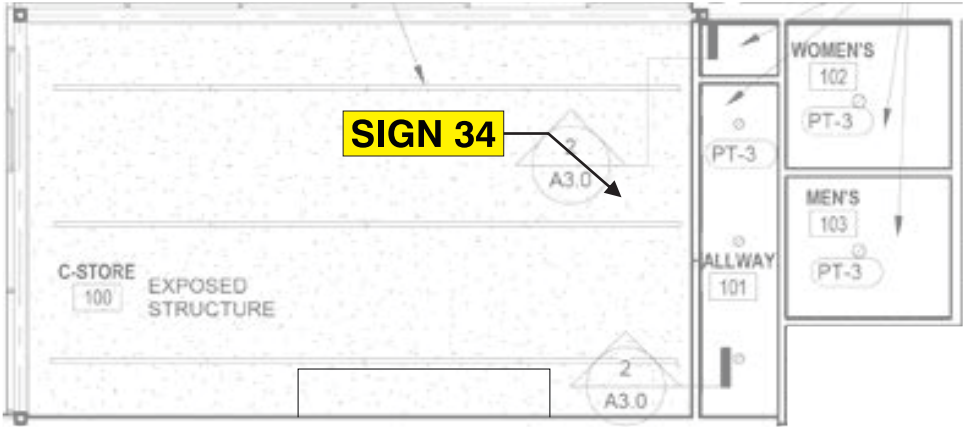
Scale: 1 1/2" = 1'-0"

Blade

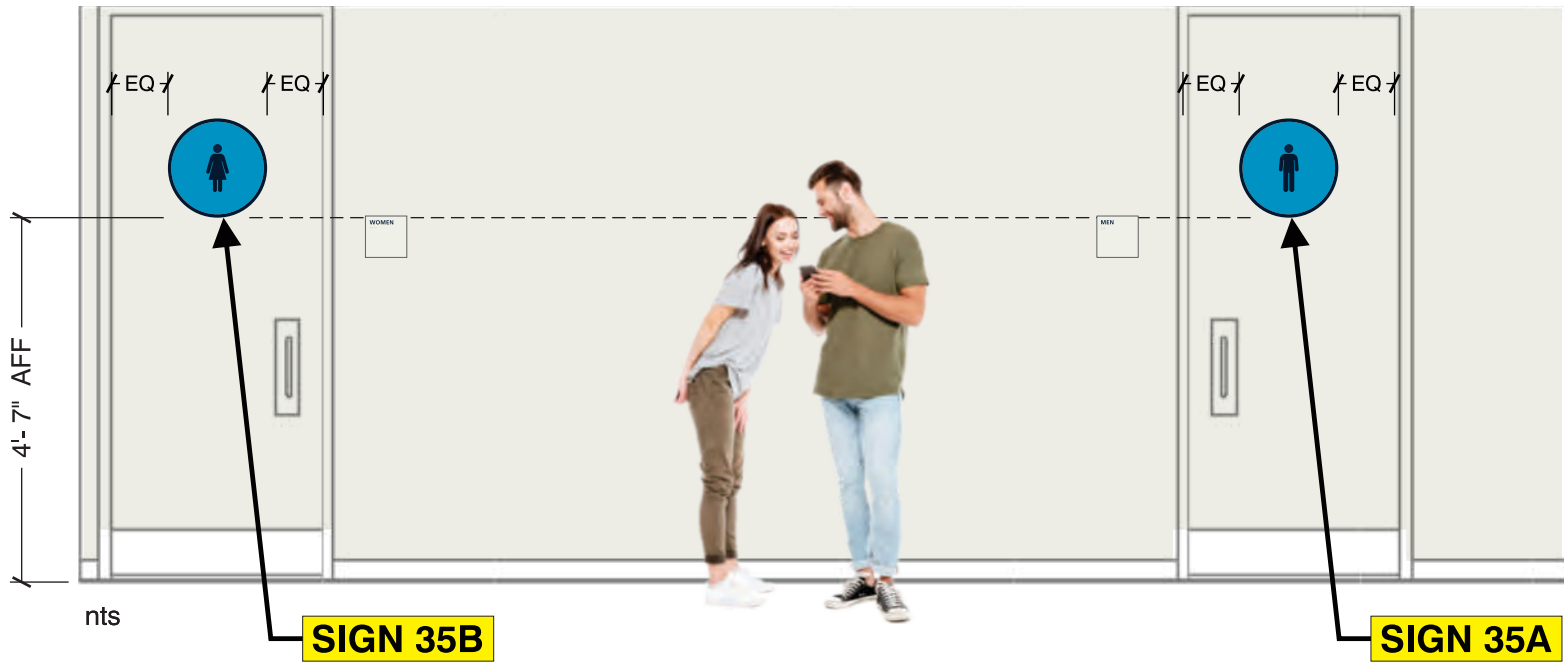
1	Aluminum faces painted Benjamin Moore Old Navy 2063-10.
2	1 1/2" Return painted Benjamin Moore Old Navy 2063-10.
3	Avery vinyls 695 Dark Blue & 645 Peacock Blue applied first surface.
4	1" Diameter tube welded to 6" x 6" x 1/4" thick mounting plate with 3/8" thru-holes, 4" OC. Painted Benjamin Moore Old Navy 2063-10.

Colors to match

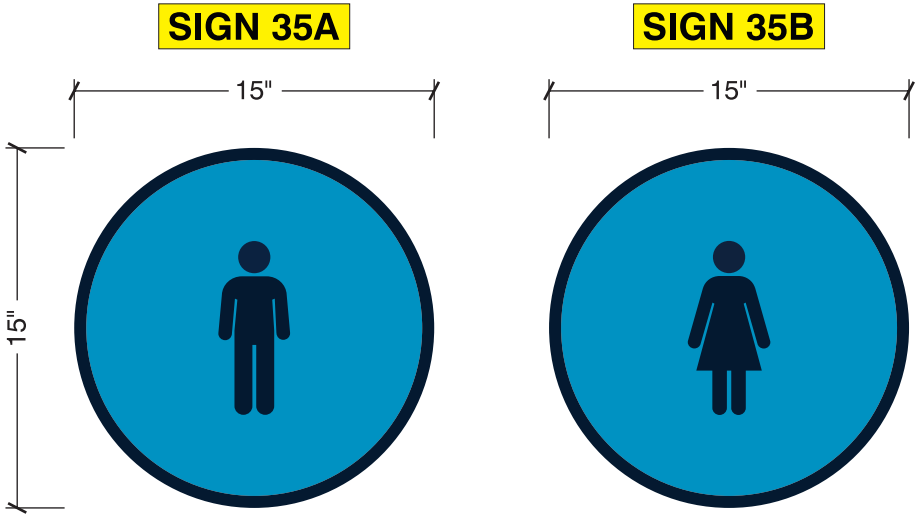
	Avery 695 Dark Blue PMS 533 C		Avery 645 Peacock Blue		Benjamin Moore Old Navy 2063-10
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Note:
Signs & dimensions shown for placement only - elevation is not accurate.

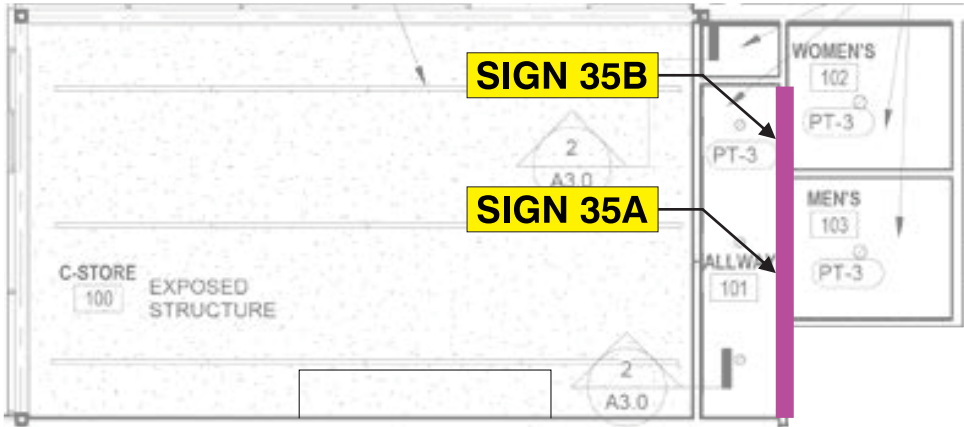


Scale: 1 1/2" = 1'
Qty: 1 ea

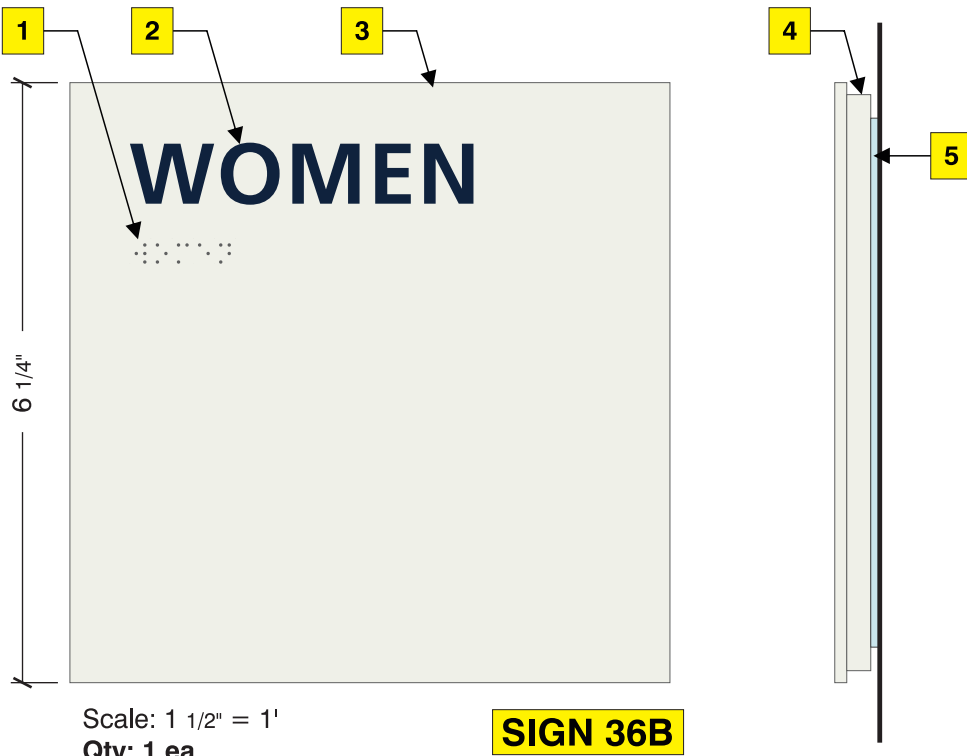
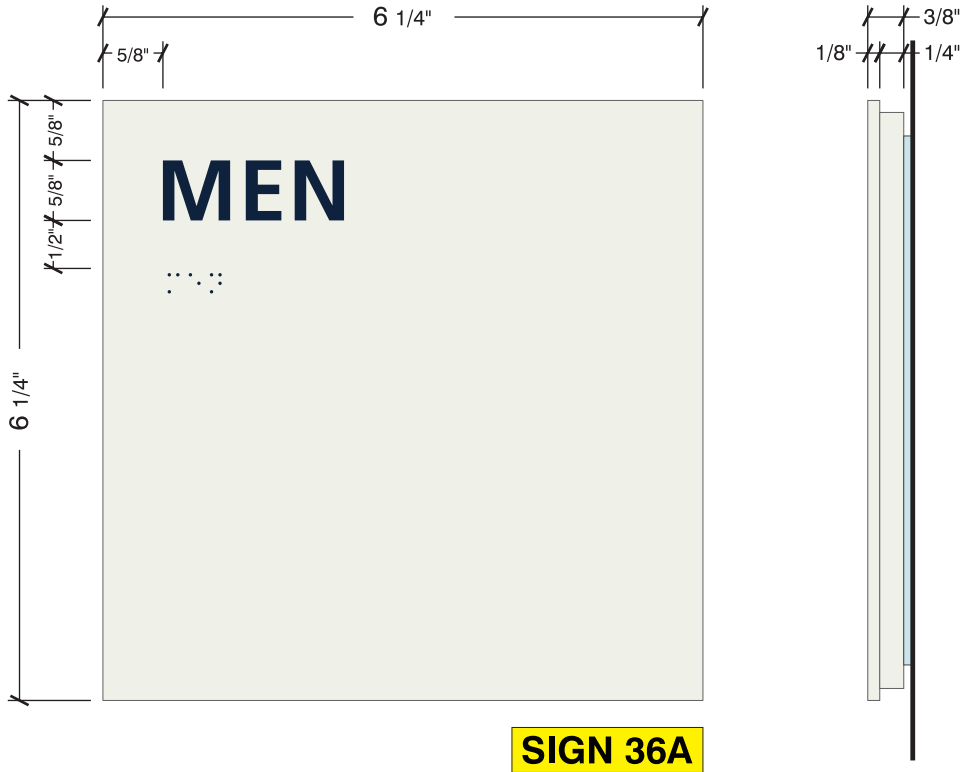
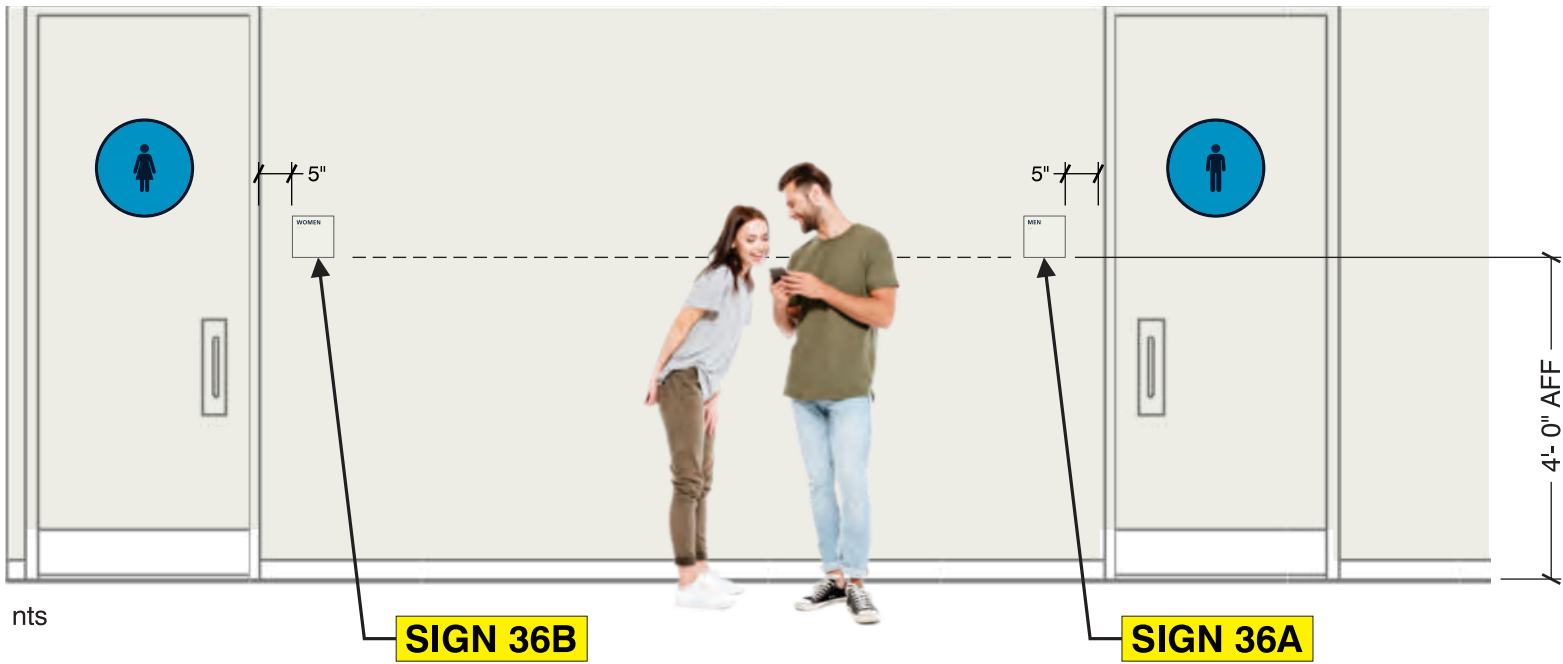
Vinyl
1 Digitally printed & laminated vinyl applied first surface.

Colors to match

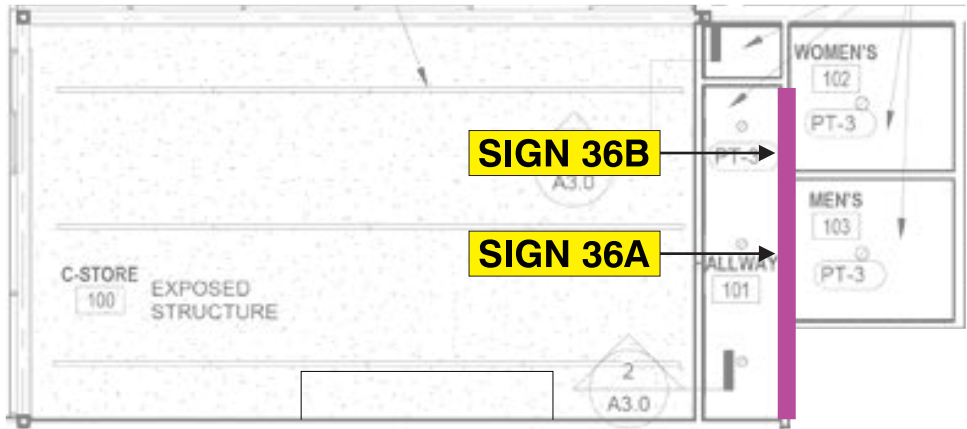
	Avery 695 Dark Blue		Avery 645 Peacock Blue
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Note:
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Plaque	
1	Dimensional room ID with 1/32" raised letters. Plaque color: Plaque material M1 - 1/8" acrylic. BM OC-17 White Dove or match PMS 11-4300 TCX.
2	Letter face color: BM 2063-10 Old Navy or match PMS 533 C.
3	Braille dome shaped, Grade II Complied Braille. Domes to plaque color (shown darker for visibility on layout).
4	1/4" Thick acrylic spacer inset 1/4" from edge of plaque on all sides. Painted BM OC-17 White Dove or match PMS 11-4300 TCX.
5	Install flush mount to wall w/ VHB tape.

ADA Requirements:

- 5/8" minimum / 2" maximum cap-height
- All caps in sans-serif type style
- 1/32" minimum raised text
- Grade II Complied Braille
- 3/8" minimum distance clearance on Braille
- Install between 48" - 60" AFF
- 80% color contrast
- 18" clearance with swing-out doors
- Non-glare finish

Scale: 1 1/2" = 1'
Qty: 1 ea

Colors to match

BM OC-17 White Dove
(matte, non-glare finish)
PMS 11-4300 TCX

BM OC-17 Old Navy
(matte, non-glare finish)
PMS 533 C

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