



Planning & Development Division
Planning & Economic Development Department

Room 160
411 West First Street
Duluth, Minnesota 55802



218-730-5580



planning@duluthmn.gov

Date: August 25, 2025
To: Planning Commission
From: Chris Lee, Planner
RE: PLOR-2508-0011 Campus Sign Plan

Aspirus St. Luke's (ASL) and consulting firm Kiku Obata has submitted exhibits for a Campus Sign Plan at the existing ASL medical facility at 915 East 1st Street. The intent of a campus plan is to provide a uniform signage plan for a large university, college, and hospital site. It also allows for more rapid zoning review of pending sign permit applications.

The project proposer has summarized the shortcomings of the current on-site signage on page 3 and 4 of their exhibit, and establishes a new signage strategy on page 6 of the attached exhibit. The wayfinding signs are generally categorized by a new naming nomenclature, as shown on page 5 of the attached exhibit. By using this strategy, every structure, building entrance, and parking area will have easily identifiable markings.

The signage proposed in the campus plan exceeds the restrictions imposed by the UDC in several areas: the size of monument signs (12 feet proposed versus 8 feet allowed), area of some structure signs (50 square feet), and the number of structure signs allowed per parcel. Under UDC Sec. 50-27.10, a campus plan site may be more permissive than the ordinary UDC signage standards.

A portion of citizens traveling to this site will likely be distracted or distressed, so small variations from the UDC for basic identification signs (to improve clarity or communication) is generally understood to be in the best interests in the community. Other signage, such as "branding" or "logo" signs fall within the limits for normal wall signage provided for by the code.

Staff recommend approval of the campus sign plan, with the understanding that:

1. Any signage (particularly monument signage) can not block vehicular site triangles, as determined by City of Duluth Engineering, and can not be located in public right of way without an approved concurrent use permit, and
2. Zoning and building permits are still required for signs allowed under this campus sign plan.

50-27.10 Campus sign plan.

- A. The city recognizes that university or college or hospital campuses have unique sign needs that may need to depart from the requirements of this Section. In such cases, the planning commission may recommend and city council may approve such sign standards for temporary and permanent signs through the review and adoption of a campus sign plan;

- B. A campus sign plan may be applied for by a university or college or hospital campus a minimum of two acres in size. In calculating the area, the entire area does not have to be contiguous and may be separated by public rights-of-way or by individual parcels not owned by the institution. However, the entire area must function as a connected campus;
- C. As part of the establishment of a campus sign plan, a comprehensive sign plan must be submitted. The comprehensive sign plan must describe the sign standards for the campus, including all exceptions to the requirements of this Section. A campus sign plan may be more permissive than the standards of this section. Directional signs within the campus may be described generally by sign area and height and general locations;
- D. The planning commission shall review the application, conduct a public hearing pursuant to Section 50-37.1.I, with public notice as required by Section 50-37.1.H, and make a decision to adopt, adopt with modifications, or deny the application;
- E. Alternately, a campus sign plan may be incorporated into the review and approval process of the district plan option of the MU-I District.



Aspirus
Aspirus St. Luke's
Duluth, MN

Proposed Campus Signage Plan
Design Intent - **DRAFT**

July 29, 2025

2024016.00

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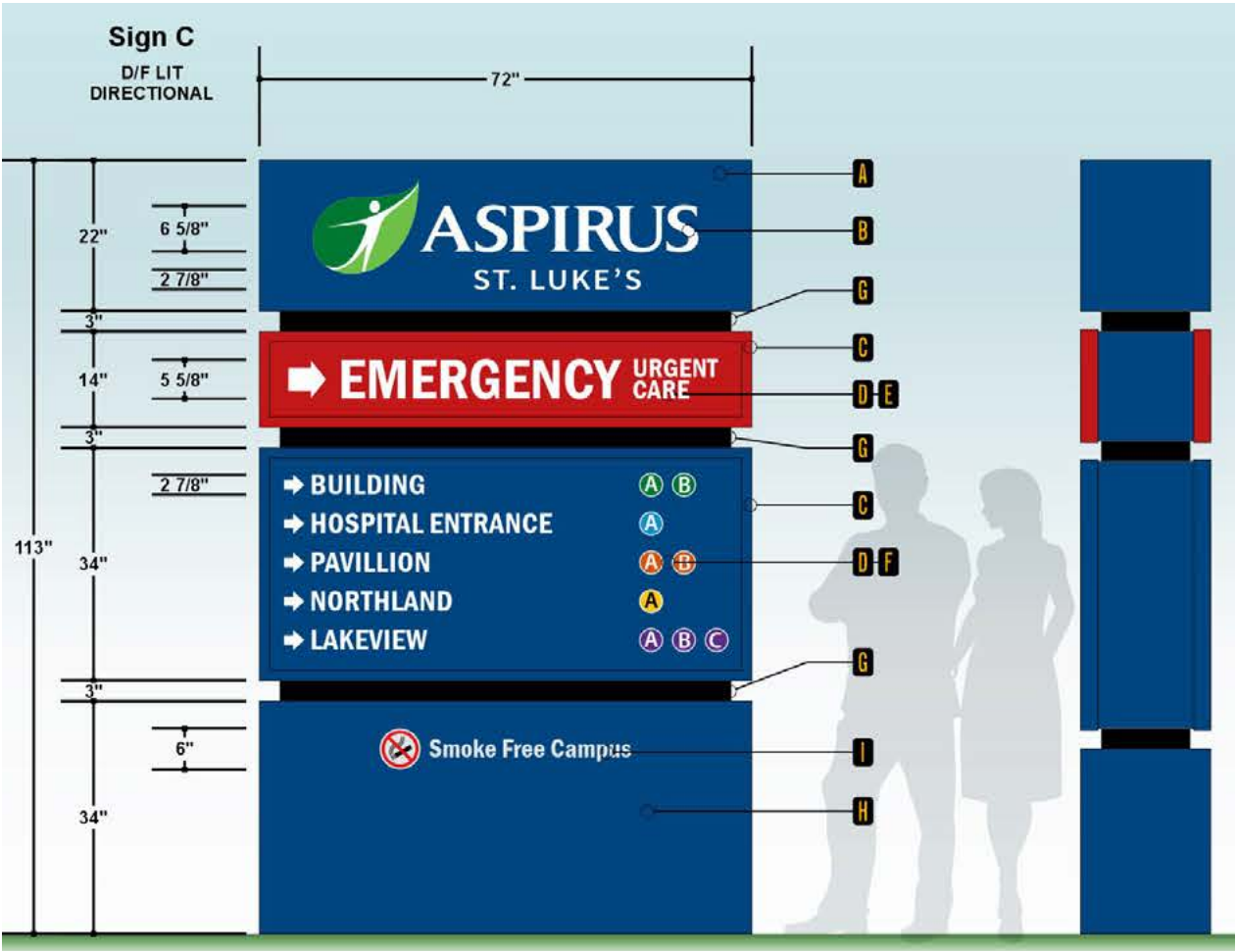
OVERVIEW

Aspirus St. Luke’s Exterior Wayfinding Signage Assessment, Strategy, and Recommendations

- This urban location, with multiple, separate buildings and parking areas, is more complex than a suburban campus with multiple points of entry and challenging parking situations, and requires a different wayfinding solution than typical Aspirus locations.
- The existing campus wayfinding system is outdated and is not suited to the needs of the current campus configuration.
- The goals of the new exterior wayfinding program should be to create a consistent signage system, improve visibility and legibility of the signs, make navigation to their destination clearer to patients and visitors, and create awareness of the Aspirus brand.
- The Aspirus brand should be an integral part of the wayfinding signaling to visitors that they have arrived and are in the “Aspirus District.”

Signage Standards and Existing Signs

- With all blue backgrounds, there is no hierarchical division between branding and wayfinding messages.
- For the Aspirus St. Lukes campus, the directional sign standard text is too small at 2 7/8".
- The text on the existing directional signage at Aspirus St. Lukes is also too small. The font is not easy to read and the arrows are too big.
- The multiple colors on the existing Aspirus St. Lukes directional signs is busy and diminishes the effectiveness of the EMERGENCY red band.



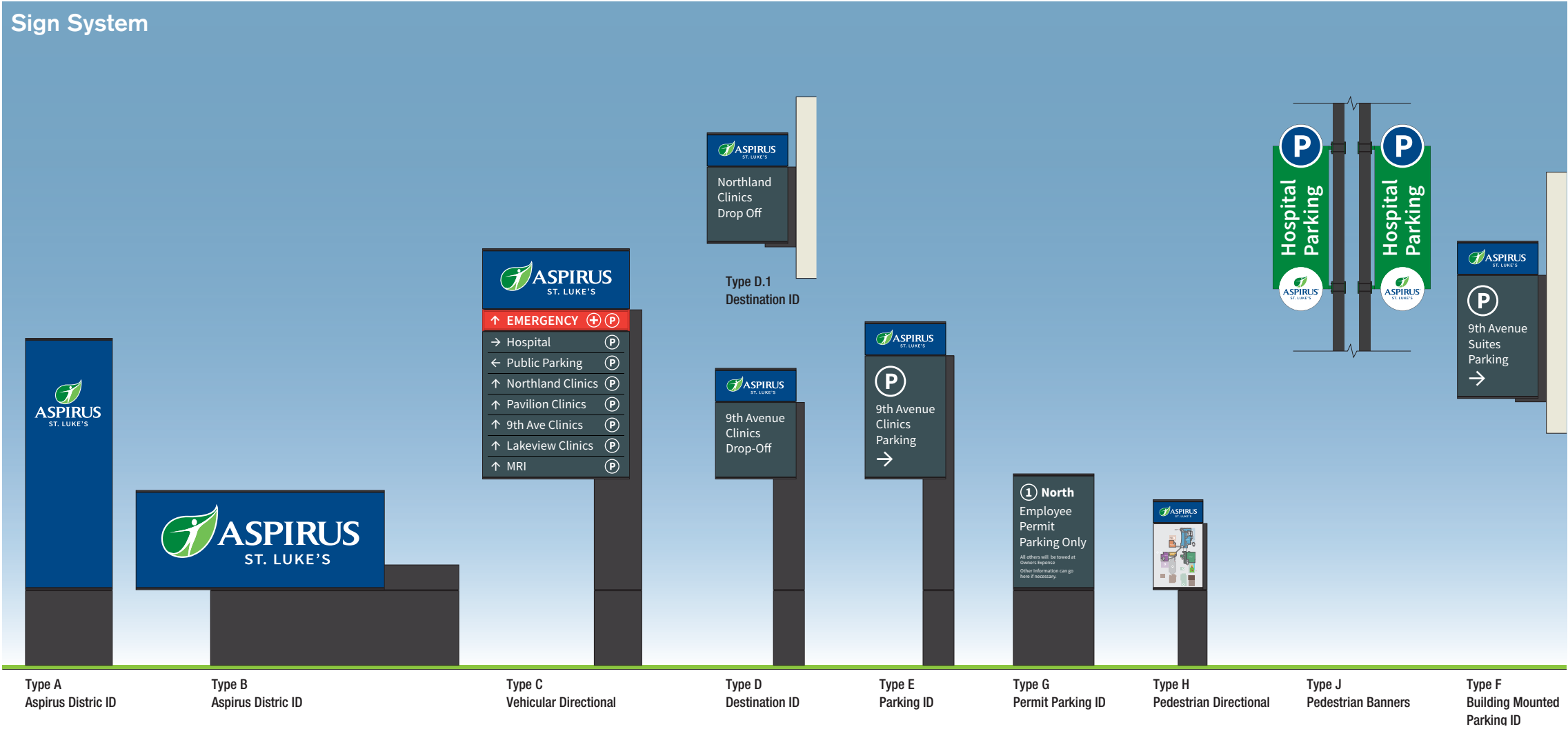
Nomenclature Strategy

- Since both the Hospital and Building A have hospital services well as clinical services, both should be identified as hospitals
- Eliminate “ramp” from all nomenclature
- For naming of future clinic buildings:
 unique name + “clinics”

Current Nomenclature	Exterior Wayfinding Nomenclature
Hospital Name	
Aspirus St. Luke’s	Aspirus St. Luke’s (logo)
Buildings	
Hospital	Hospital
Building A	
Northland Medical Center	Northland Clinics
Medical Office Pavilion	Pavilion Clinics
Lakeview Building	Lakeview Clinics
Entrances	
Emergency Department	Emergency
9th Avenue Suites	9th Avenue Clinics
MRI	MRI
Parking	
Hospital Ramp	Public Parking ⓘ
9th Avenue Suites Parking	9th Avenue Clinics ⓘ
MRI Parking	MRI ⓘ
Emergency Parking	Emergency ⓘ
Building A Parking	Hospital ⓘ
Pavilion Ramp	Pavilion Clinics ⓘ
Lakeview Ramp	Lakeview Clinics ⓘ

Signage System Strategy

- This configuration prioritizes getting patients and visitors to the appropriate parking for their destination.
- The proposed sign system is designed to fit the urban setting and offers a variety of sign types to address various conditions.
- Signs messages are placed at a height to avoid visual obstructions.
- Sign bases are narrow to allow for clear views at driver or pedestrian eye-level.
- This Aspirus brand is on a blue background which is the preferred color across the signage system.
- Wayfinding messages are visually separated from the brand panel by placing them on a neutral dark field that provides contrast and legibility. The messaging background color and sign base body color are inspired by the nature of Duluth and specifically the evergreen trees.



Evergreen Tree Color Reference











Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890


GRAPHIC DEVICES



PAINT COLORS - ALL PAINTS SHALL BE MATTHEWS
ACRYLIC POLYURETHANE SATIN OR APPROVED EQUAL



P1
MATTHEWS
CUSTOM COLOR
TO MATCH
PANTONE 2154C
SATIN FINISH



P2
MATTHEWS
(310) MP15540
FRASER FUR
SATIN FINISH




P3
MATTHEWS
(15) MP04418
DORIC BROWN
SATIN FINISH



P4
MATTHEWS
CUSTOM COLOR
TO MATCH
PANTONE 1795 C
SATIN FINISH



P5
MATTHEWS
MP13901
GREY’S LAKE



P6
MATTHEWS
CUSTOM COLOR
TO MATCH
3630-128 PLUM
PURPLE VINYL

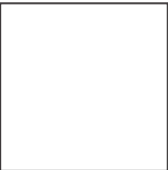


P7
MATTHEWS
CUSTOM COLOR
TO MATCH
3630-44 ORANGE
VINYL



P8
MATTHEWS
CUSTOM COLOR
TO MATCH
3630-156 VIVID
GREEN VINYL

ACRYLIC



A1
WHITE# 7328
TRANSLUCENT WHITE
ACRYLIC STANDARD
PRODUCT FINISH FOR
SHEETS/PANELS

LOGO



ASPIRUS BRAND COLORS



PANTONE 356 C

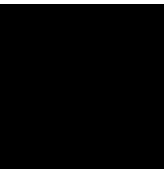


PANTONE 360 C

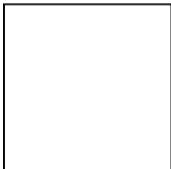


PANTONE 2154 C


VINYL COLORS




V1
OPAQUE
3M SCOTCHCAL
7725-22
MATTE BLACK
VINYL




V2
OPAQUE
3M SCOTCHCAL
7725-20
MATTE WHITE
VINYL




V3
OPAQUE
3M SCOTCHCAL
951-067
BLUE VINYL



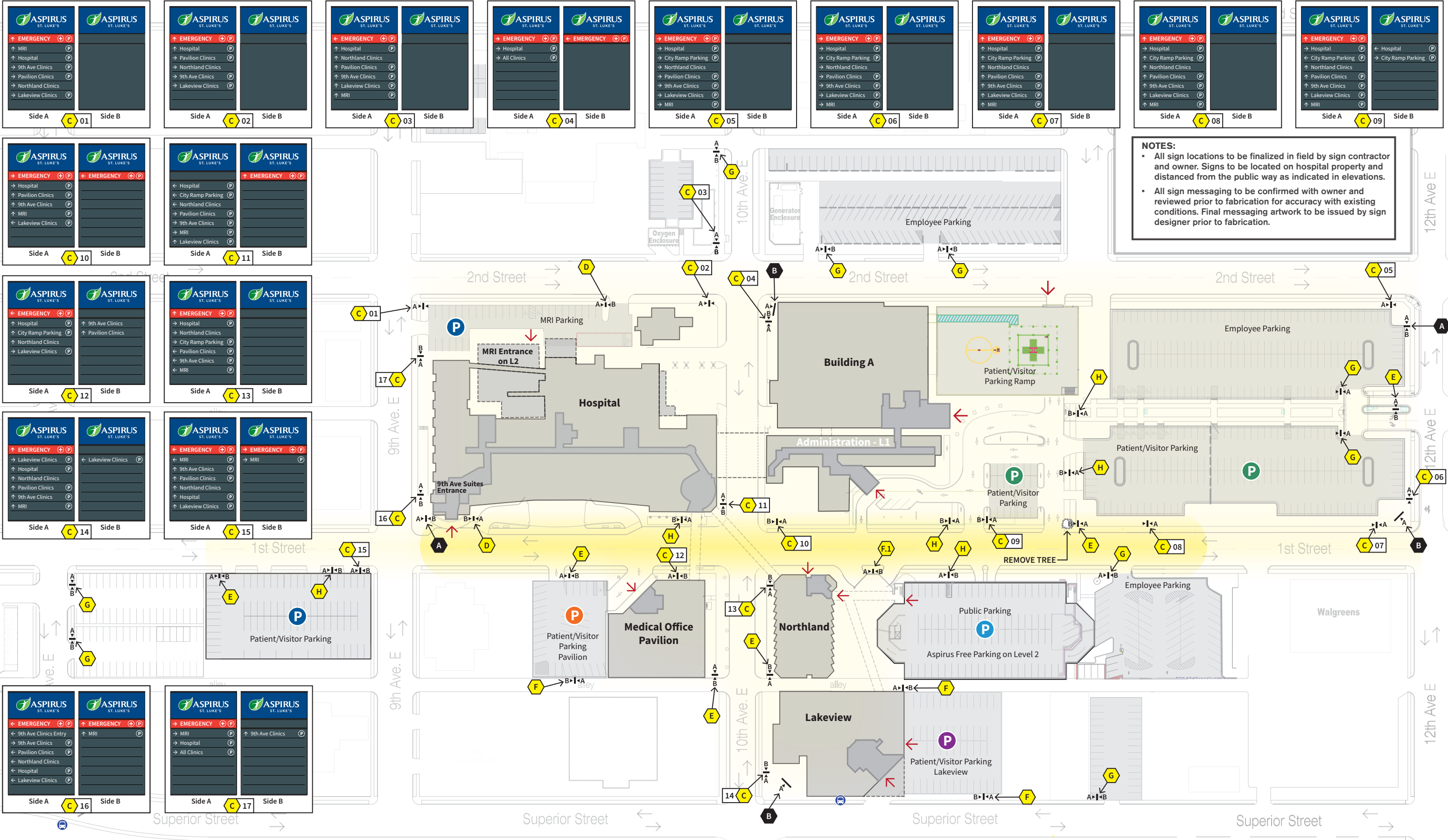
VT1
3M TRANSLUCENT
3630-43
LIGHT TOMATO
RED

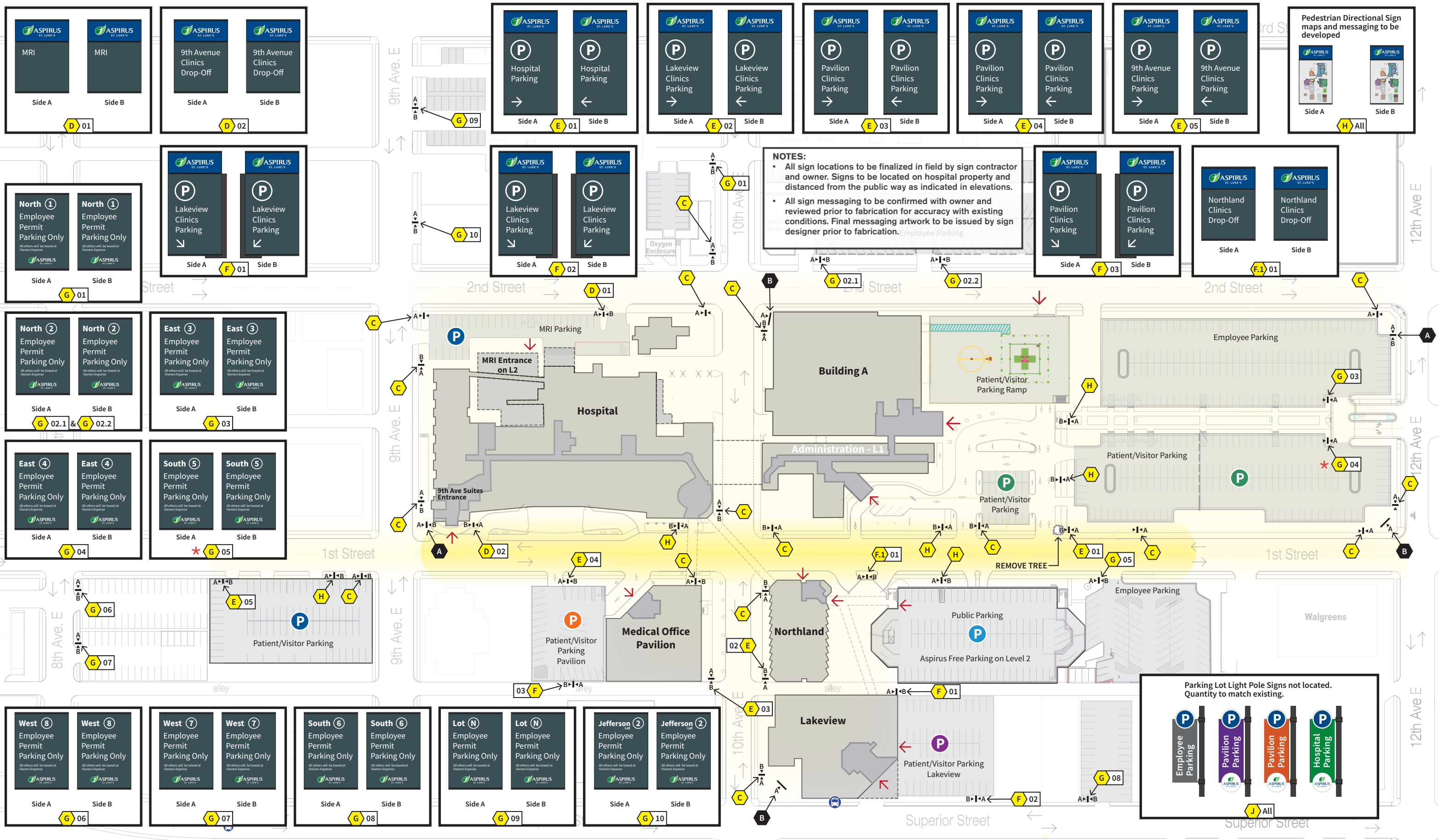


VT2
3M TRANSLUCENT
3630-97
BRISTOL BLUE



VT3
3M DIFFUSER FILM
65% LIGHT
TRANSMISSION
3635-70
WHITE



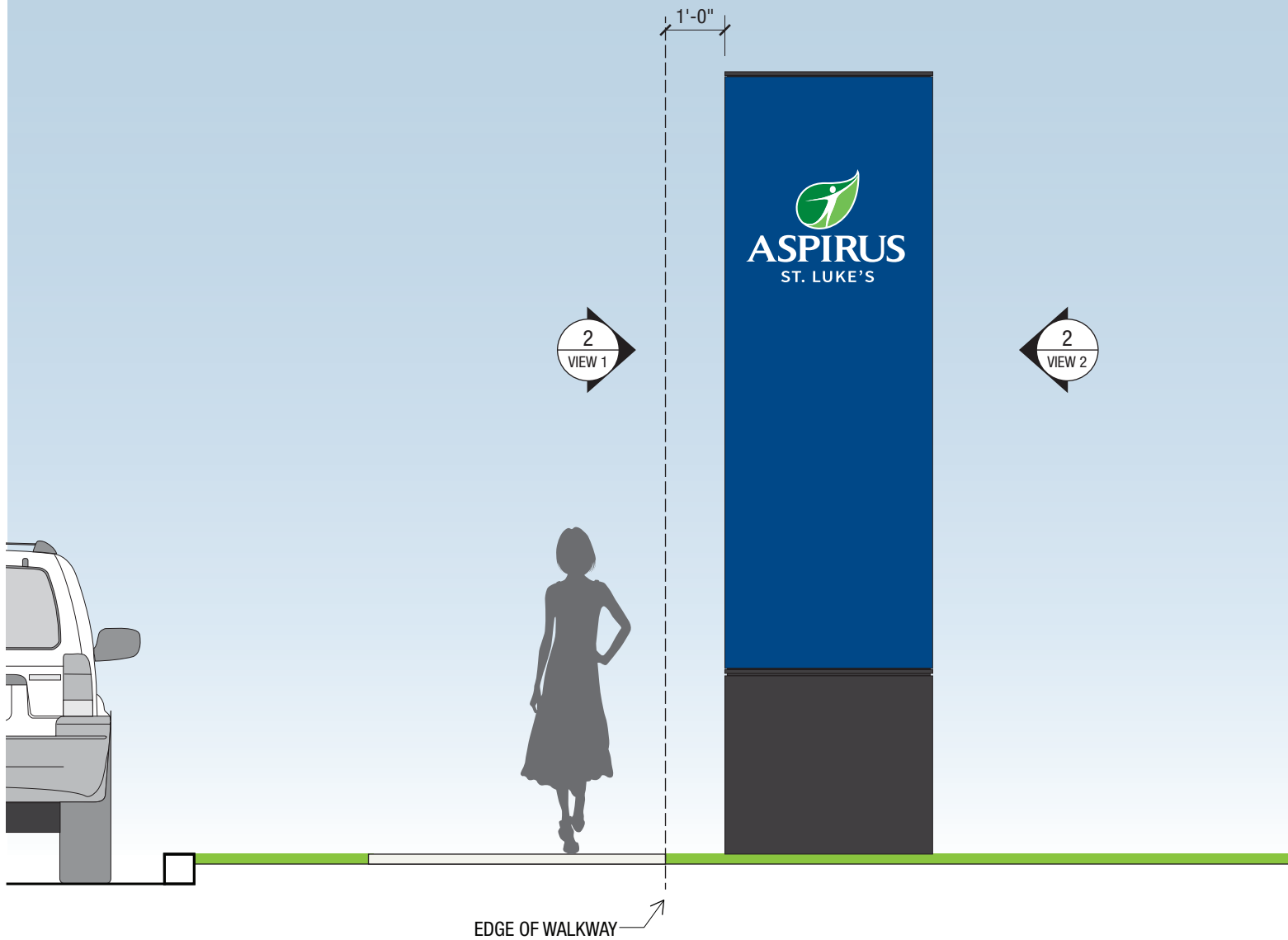


DRAWINGS

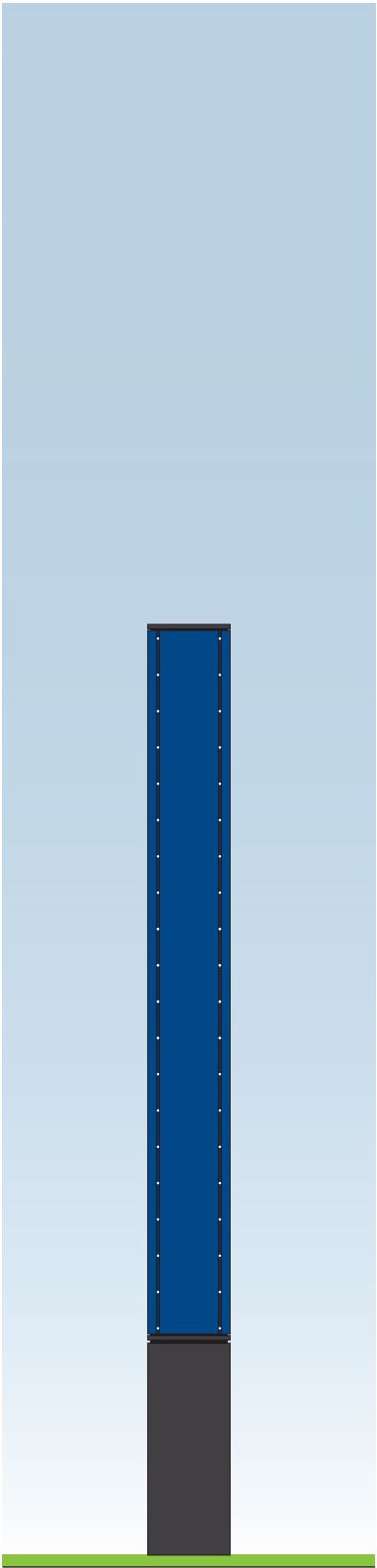
Shown in Color for Visual Reference

NOTE:
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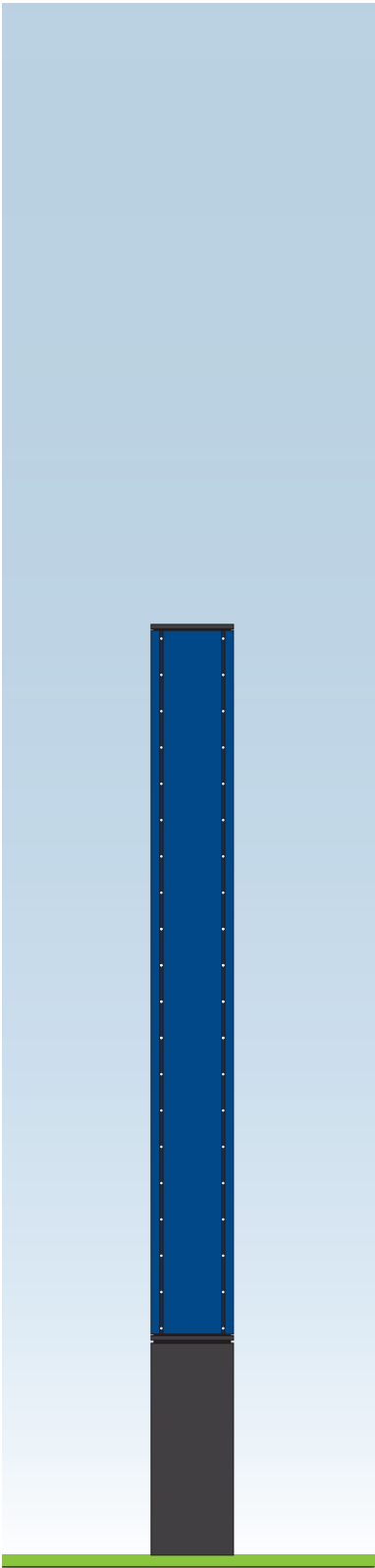
NOTE:
THIS IS A DOUBLE-SIDED SIGN. PREFERRED
INSTALLATION IS IN LANDSCAPED AREAS
ADJACENT TO THE SIDEWALK. HOWEVER SOME
LOCATIONS MAY REQUIRE INSTALLATION IN
HARDSCAPE.



1 ELEVATION: Type A - Aspirus ID
SCALE: 3/8 " = 1'-0"



VIEW 1



VIEW 2

2 ELEVATION: Type A - Aspirus ID
SCALE: 3/8 " = 1'-0"

KIKU OBATA

Kiku Obata & Company
6161 Delmar Blvd., Suite 200
St. Louis, MO 63112
Office 314.361.3110
Fax 314.361.4716
www.kikuobata.com

Client:



Aspirus St. Lukes
Duluth, MN

Authorized Use:

Design Intent - Draft

Issue Date: July 29, 2025

Revisions:			
No.	Date	Description	Drawn By
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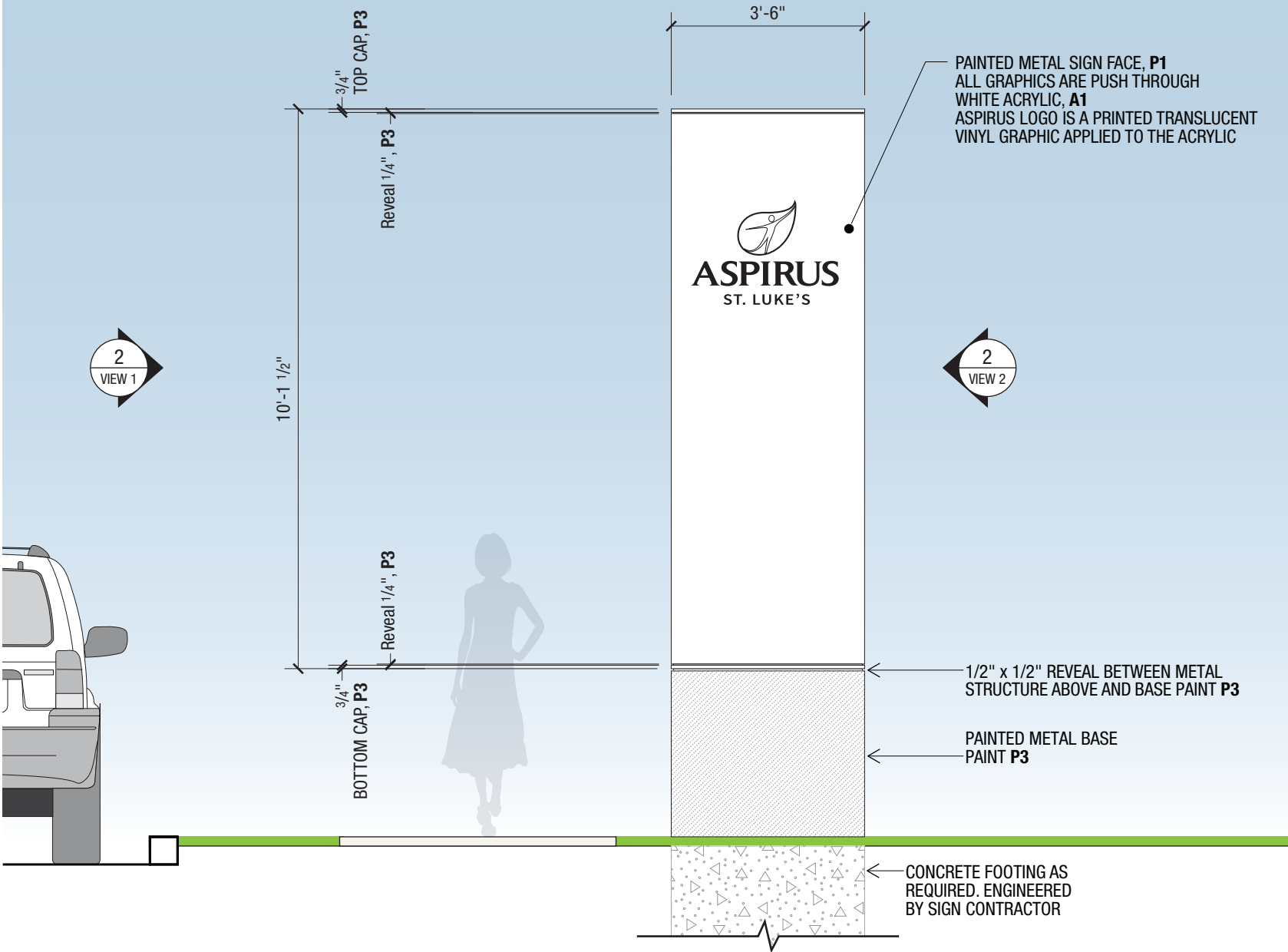
**Aspirus St. Lukes
Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

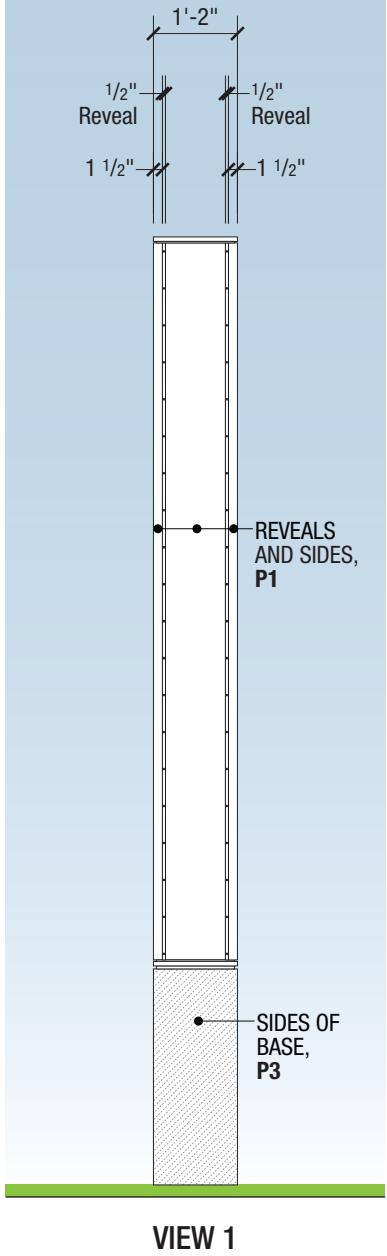
**Sign Type A
Aspirus District ID
Vertical**

Drawn by: JR
Checked by: DL

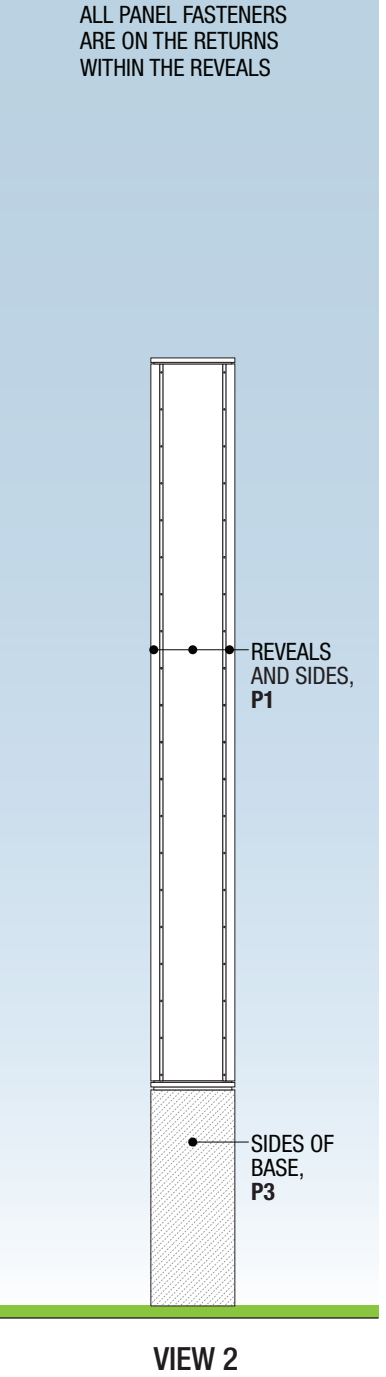
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2 ELEVATION: Type A - Aspirus ID
SCALE: 3/8 " = 1'-0"



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**Sign Type A
Aspirus District ID
Vertical - DETAILS**

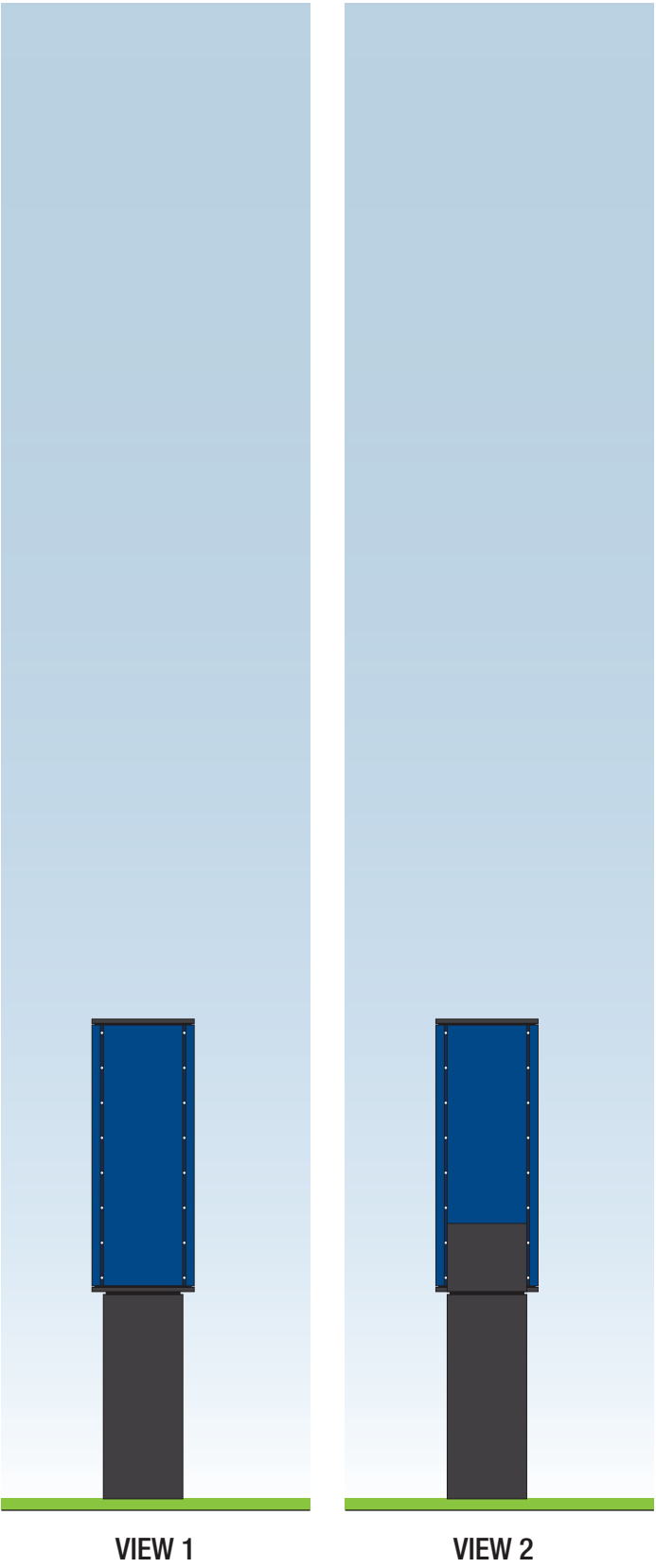
Drawn by: JR
Checked by: DL

Shown in Color for Visual Reference

NOTE:
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1 ELEVATION: Type B - Aspirus ID
SCALE: 3/8 " = 1'-0"



2 ELEVATION: Type B - Aspirus ID
SCALE: 3/8 " = 1'-0"

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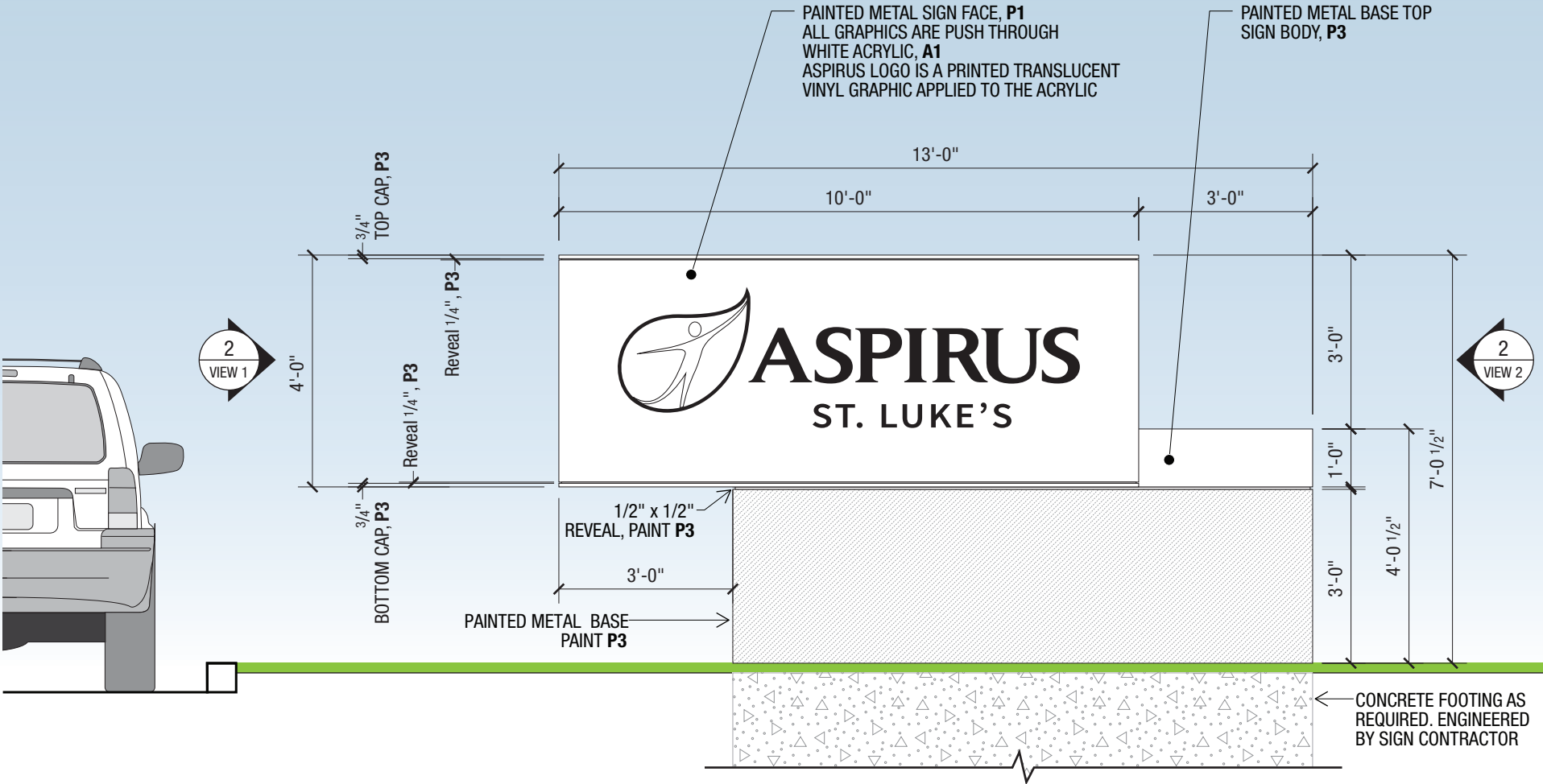
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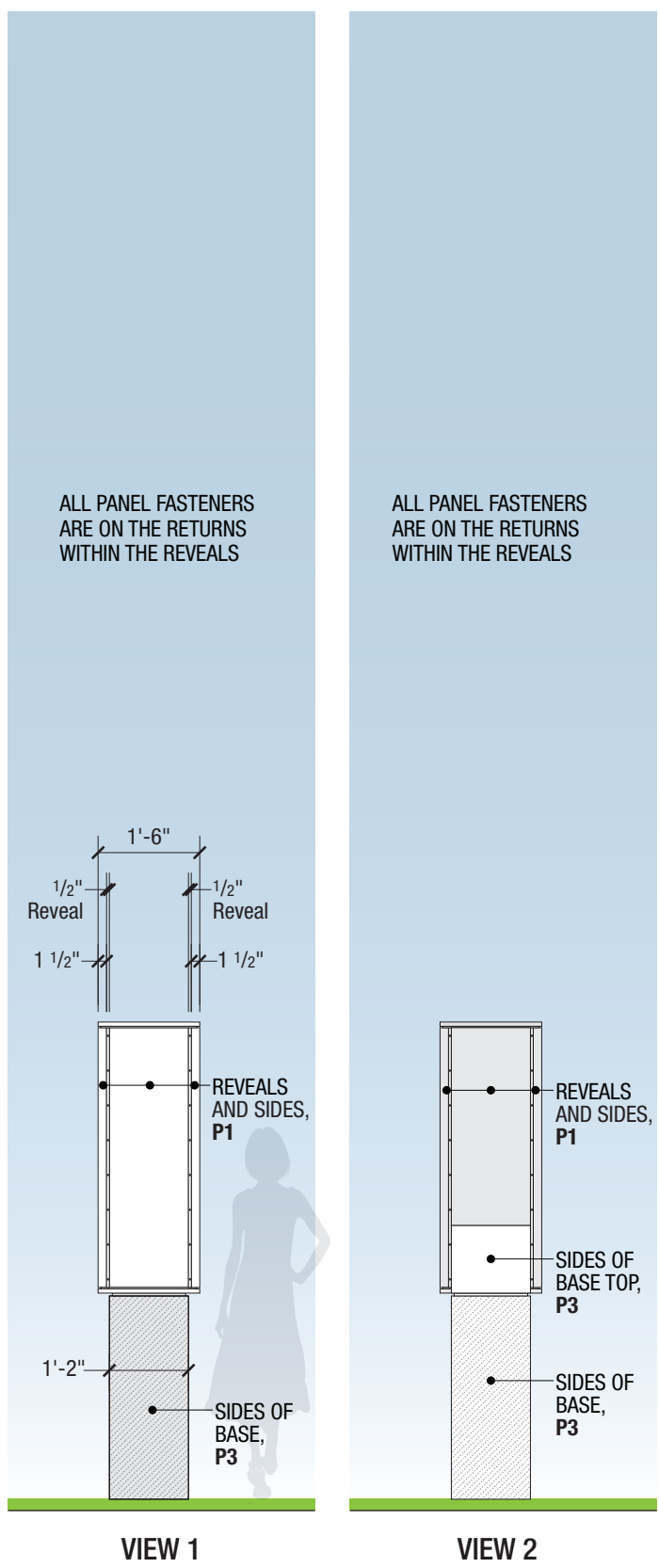
Sign Type B
Aspirus District ID
Horizontal

Drawn by: JR
Checked by: DL

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1 ELEVATION: Type B - Aspirus ID
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2 ELEVATION: Type B - Aspirus ID
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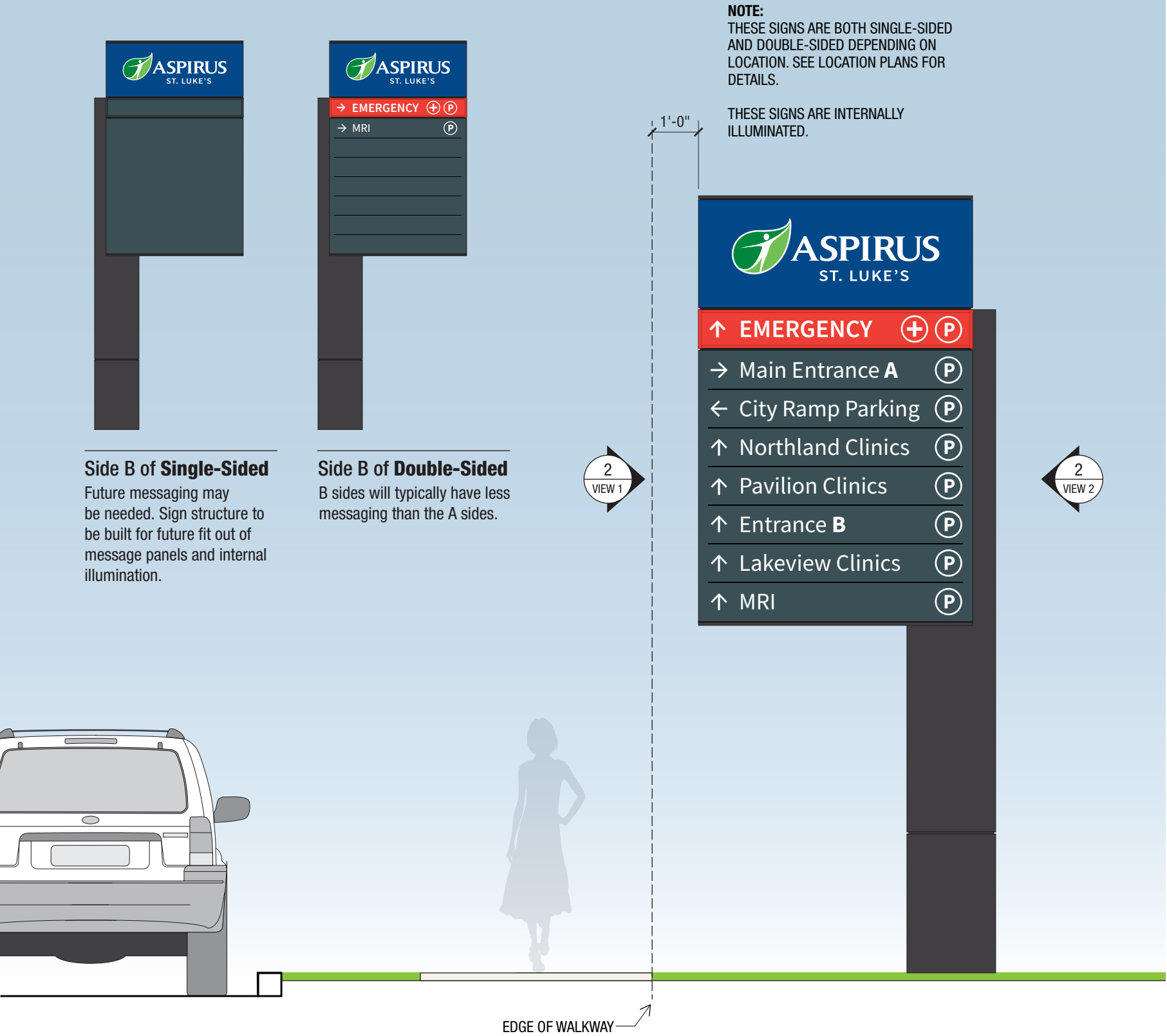
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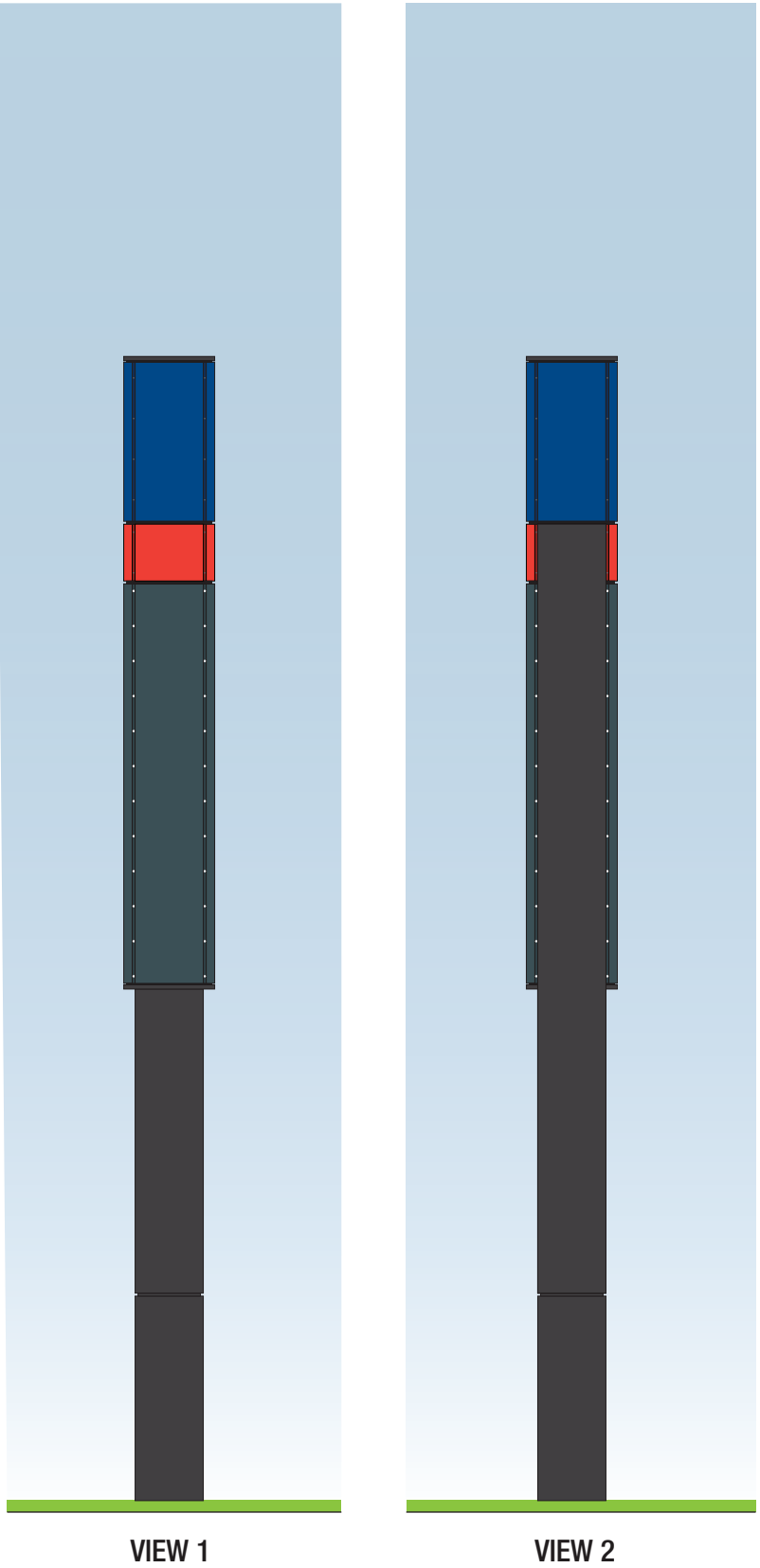
**Sign Type B
Aspirus District ID
Horizontal - DETAILS**

Drawn by: JR
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Shown in Color for Visual Reference



1 ELEVATION: Type C - Vehicular Directional
SCALE: 3/8 " = 1'-0"



2 ELEVATION: Type C - Vehicular Directional
SCALE: 3/8 " = 1'-0"

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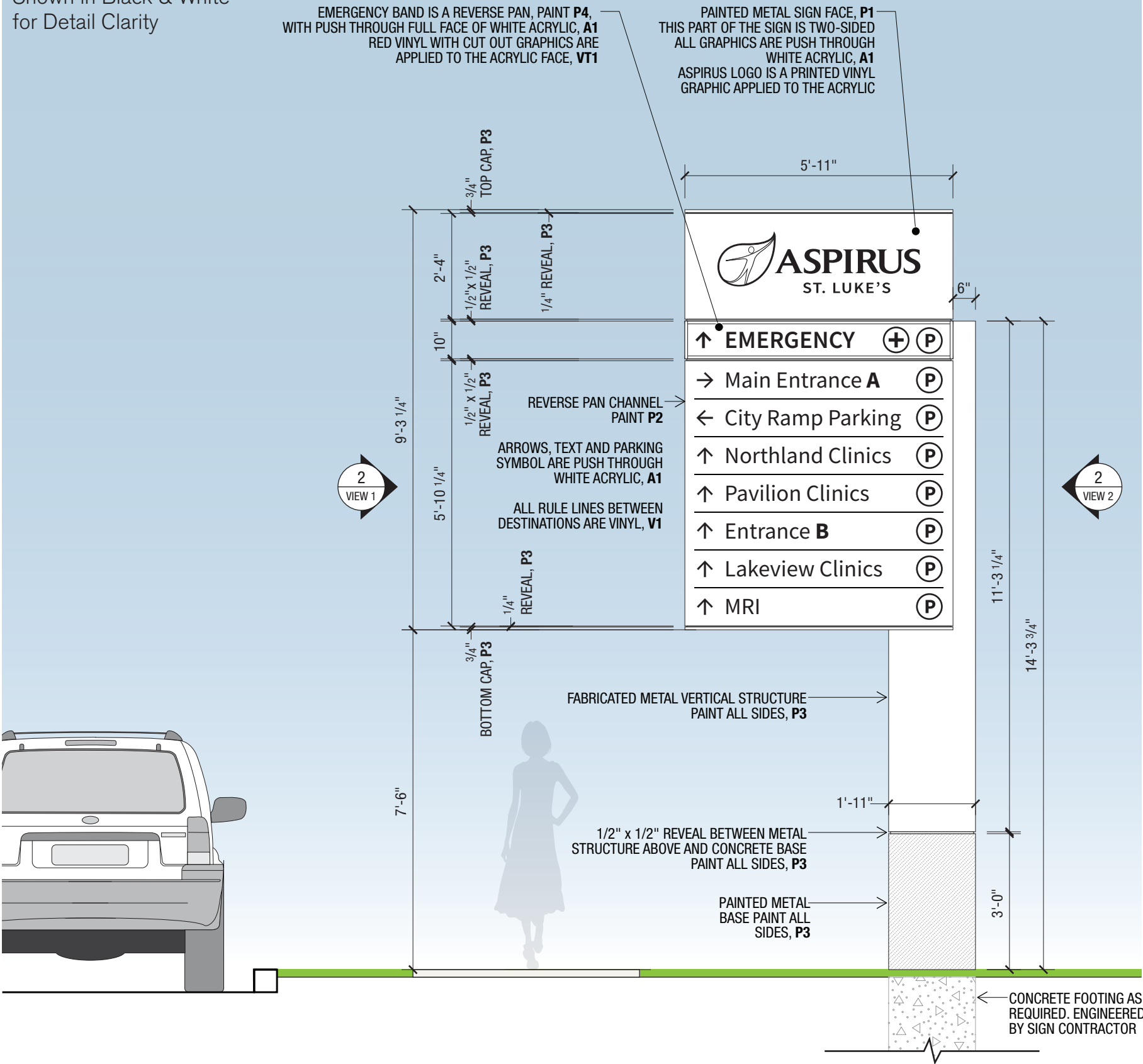
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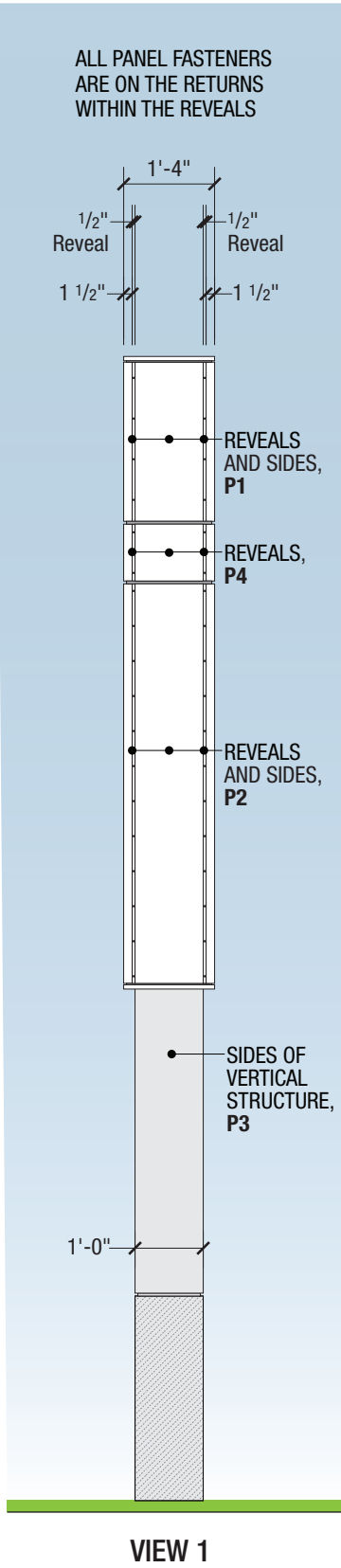
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Vehicular Directional**

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Checked by: DL

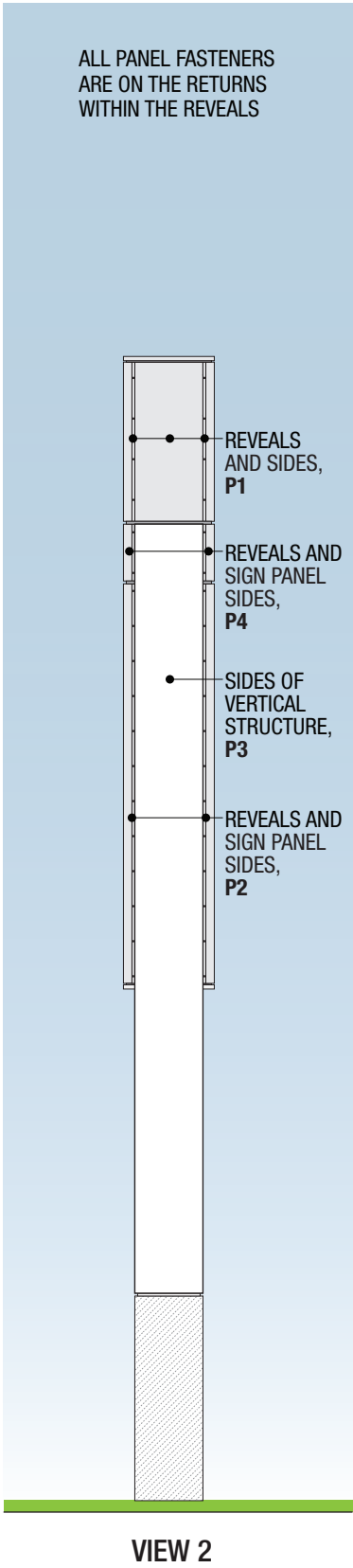
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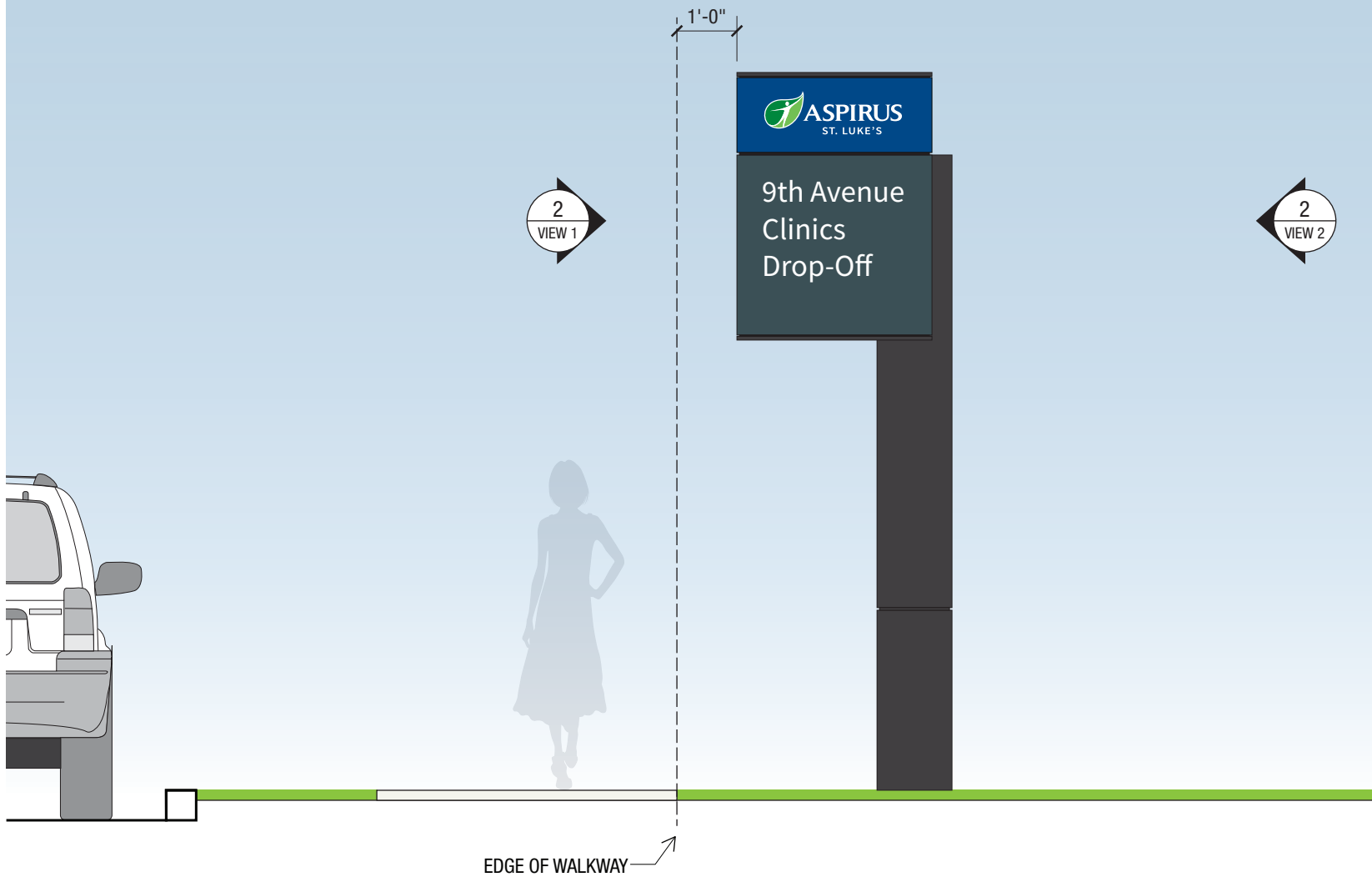
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- DETAILS**

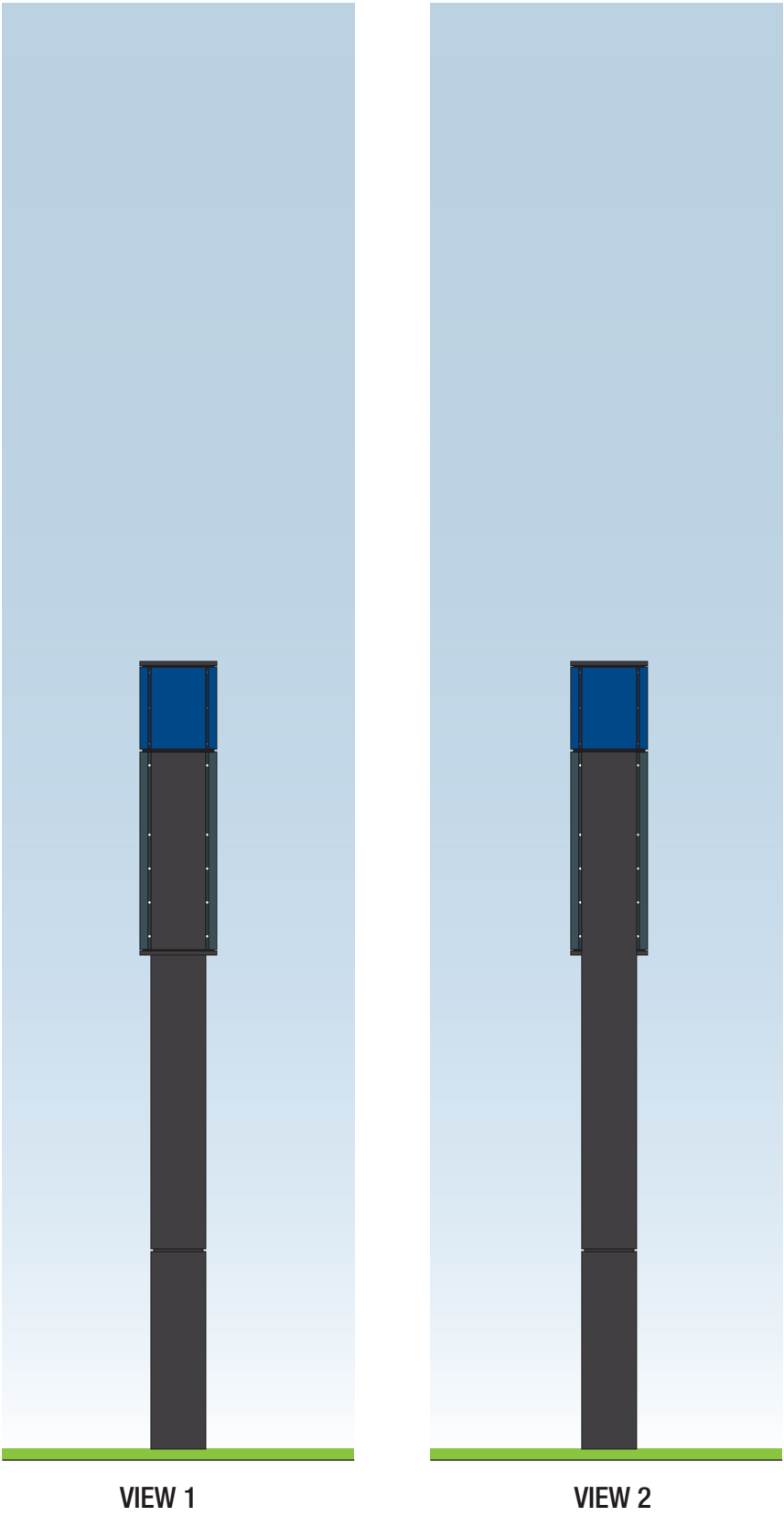
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1 ELEVATION: Type D - Destination ID
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2 ELEVATION: Type D - Destination ID
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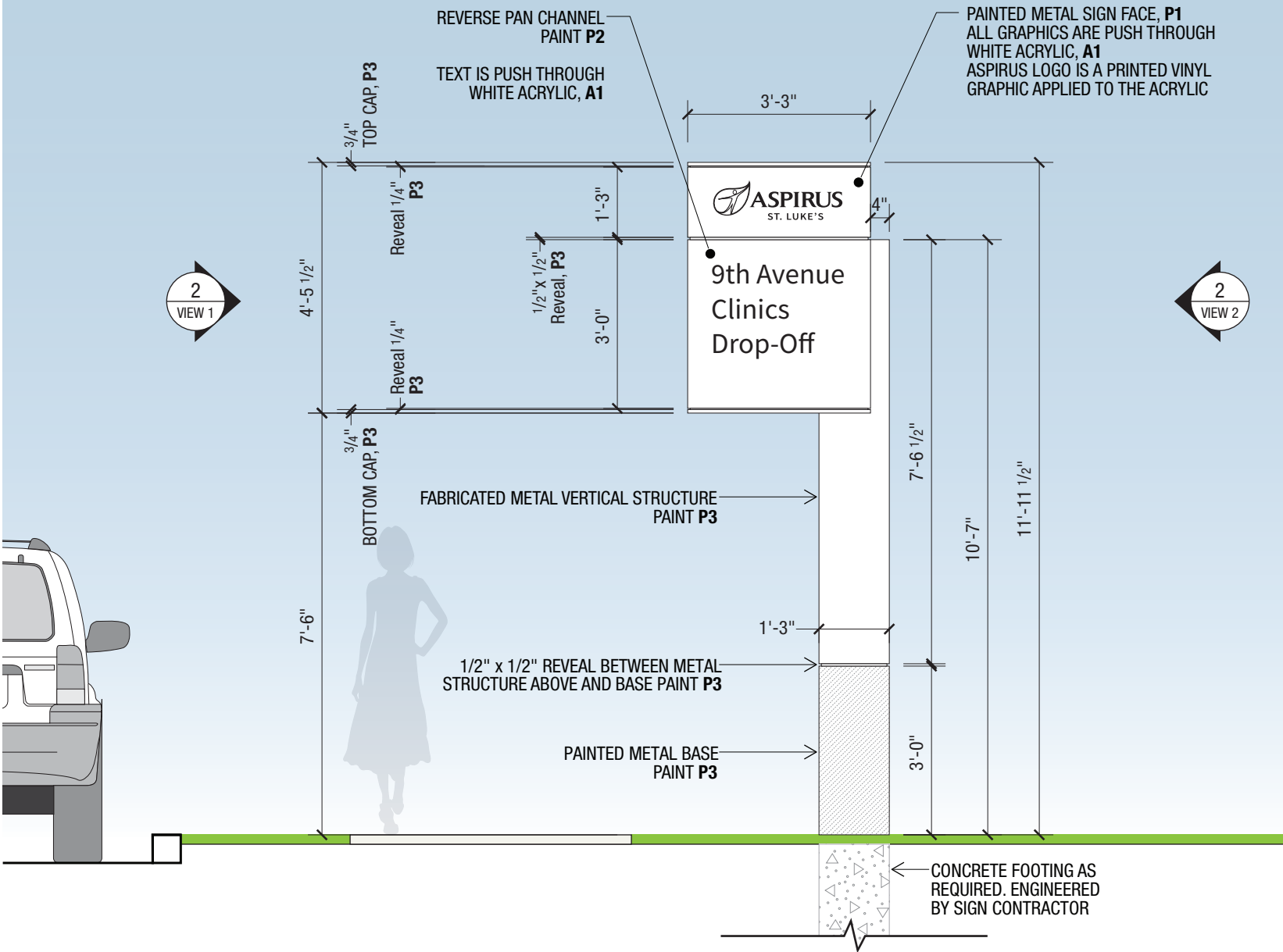
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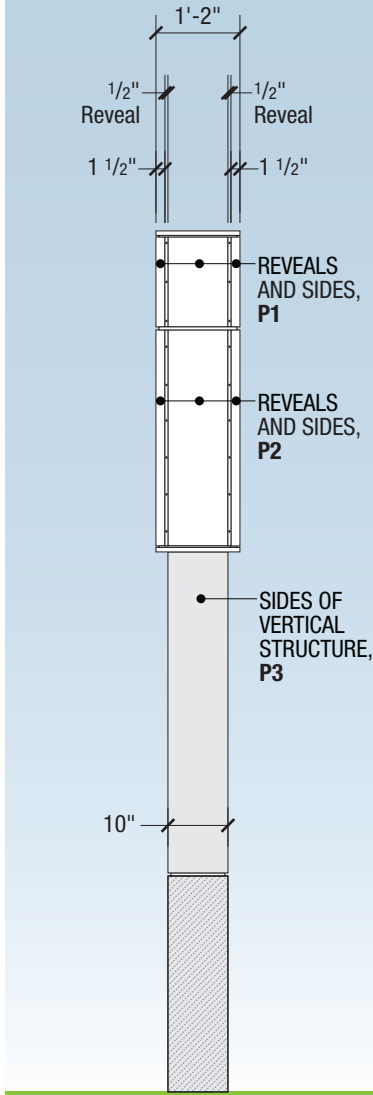
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Checked by: DL

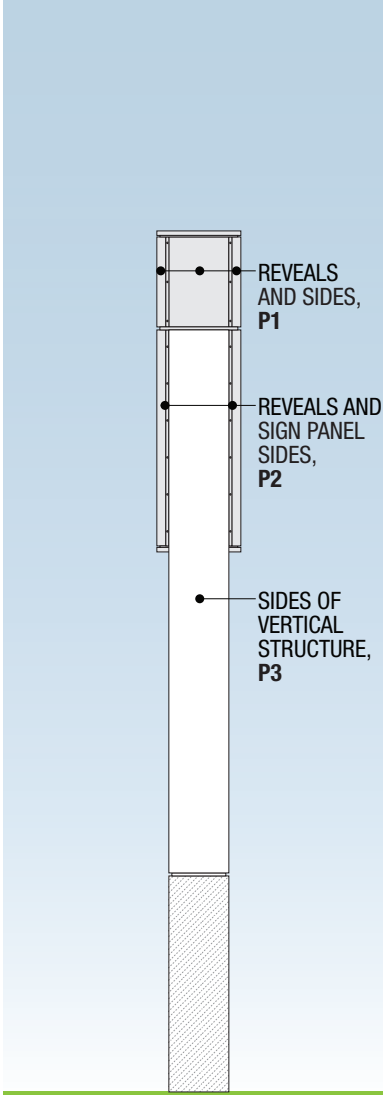
Shown in Black & White for Detail Clarity



1 ELEVATION: Type D - Destination ID
SCALE: 3/8 " = 1'-0"



VIEW 1



VIEW 2

2 ELEVATION: Type D - Destination ID
SCALE: 3/8 " = 1'-0"

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- DETAILS**

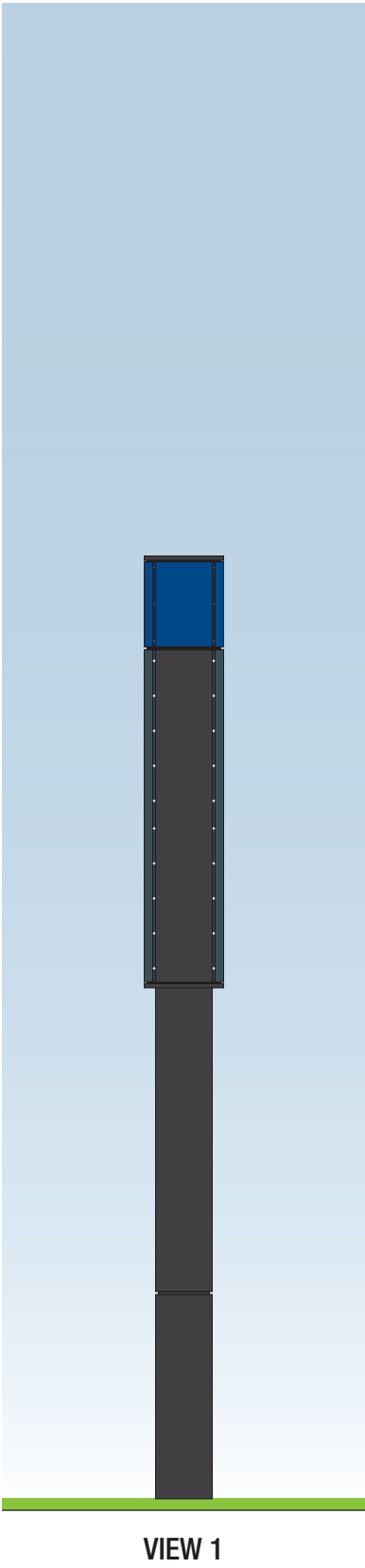
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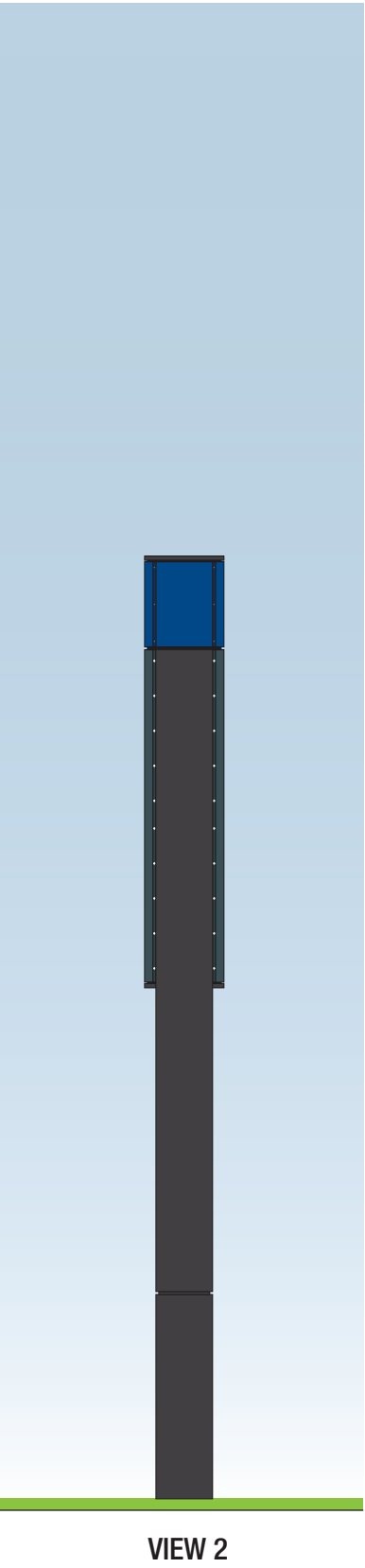


1 ELEVATION: Type E - Parking Identification
SCALE: 3/8 " = 1'-0"



VIEW 1

2 ELEVATION: Type E - Parking Identification
SCALE: 3/8 " = 1'-0"



VIEW 2

KIKU OBATA

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Office 314.361.3110
Fax 314.361.4716
www.kikuobata.com

Client:



Aspirus St. Lukes
Duluth, MN

Authorized Use:

Design Intent - **Draft**

Issue Date: July 29, 2025

Revisions:			
No.	Date	Description	Drawn By
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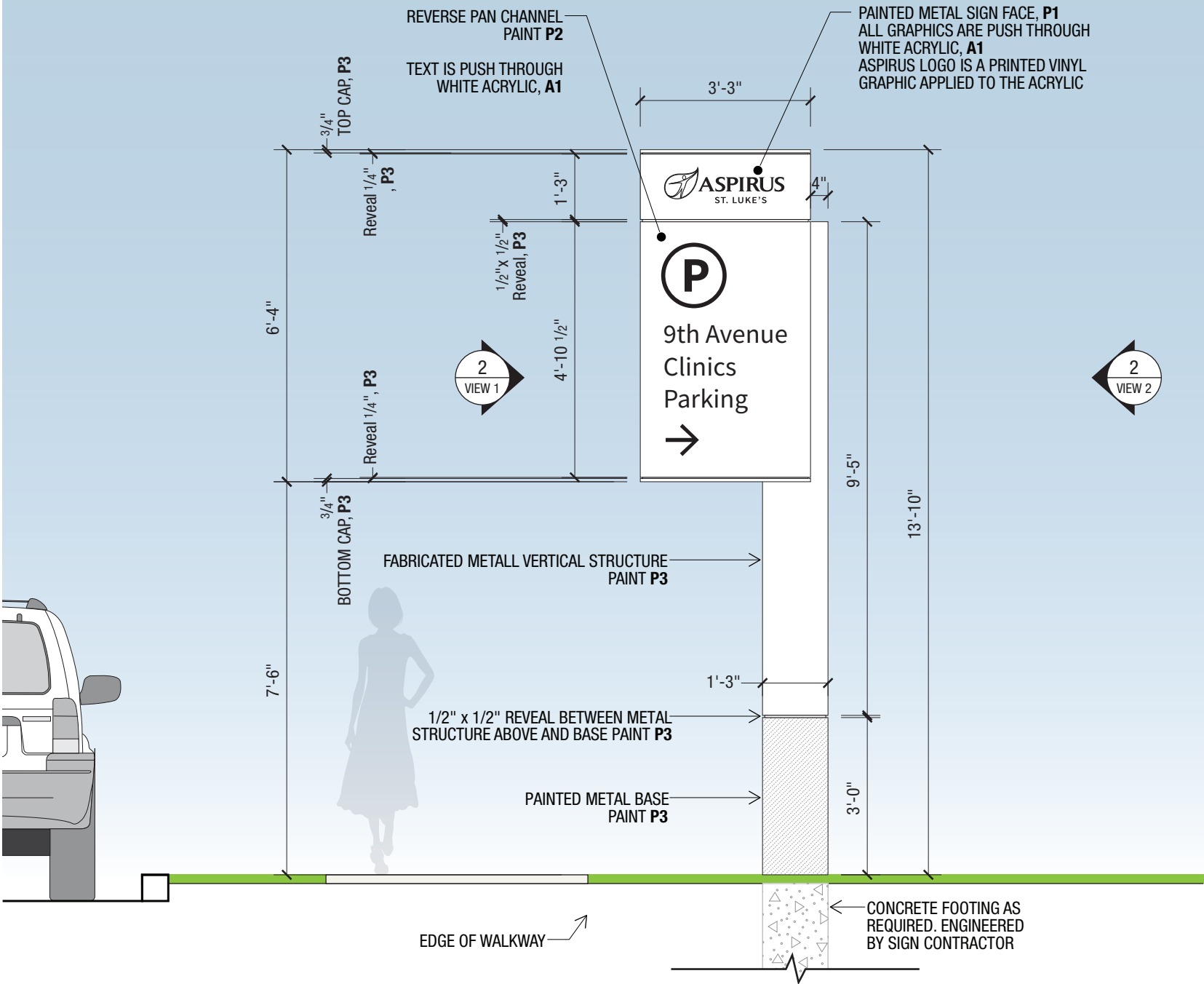
Aspirus St. Lukes
Proposed Campus Signage Plan
Duluth, Minnesota

Project Number: 2024016.01

Sign Type E
Parking ID
Freestanding

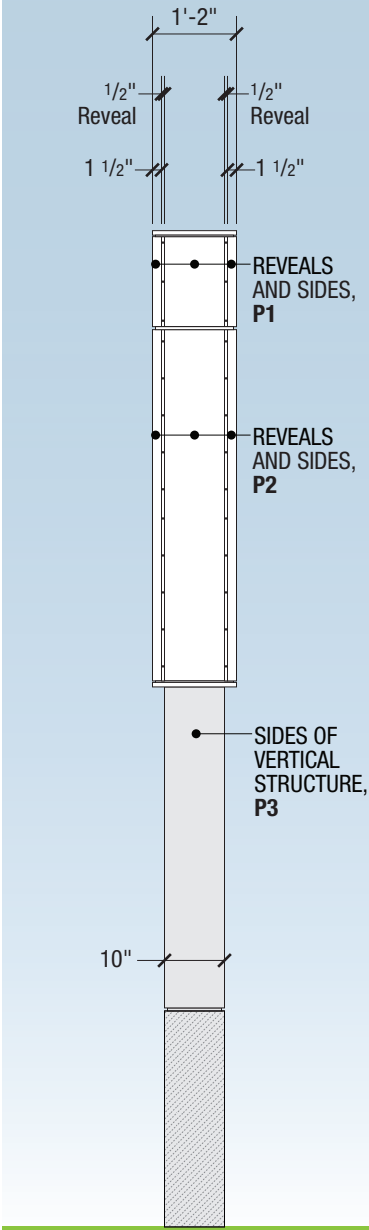
Drawn by: JR
Checked by: DL

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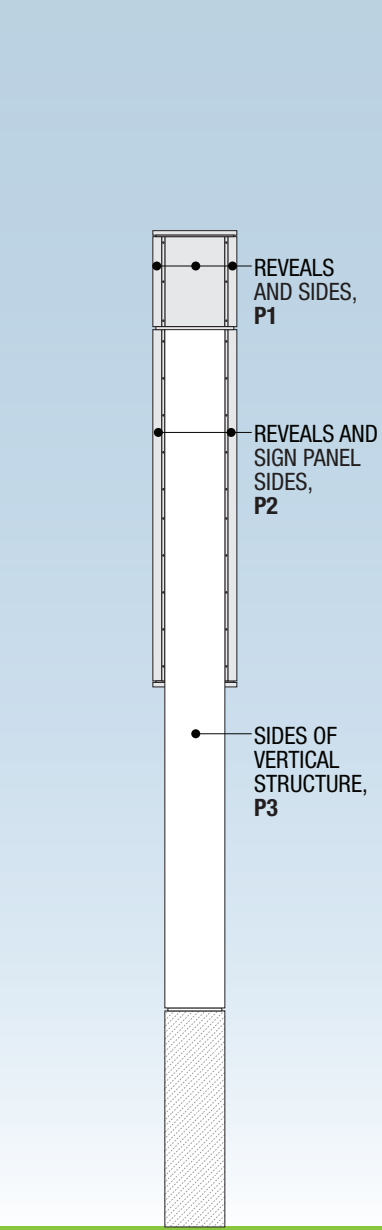
1 ELEVATION: Type E - Parking Identification
SCALE: 3/8 " = 1'-0"

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



2 ELEVATION: Type E - Parking Identification
SCALE: 3/8 " = 1'-0"

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



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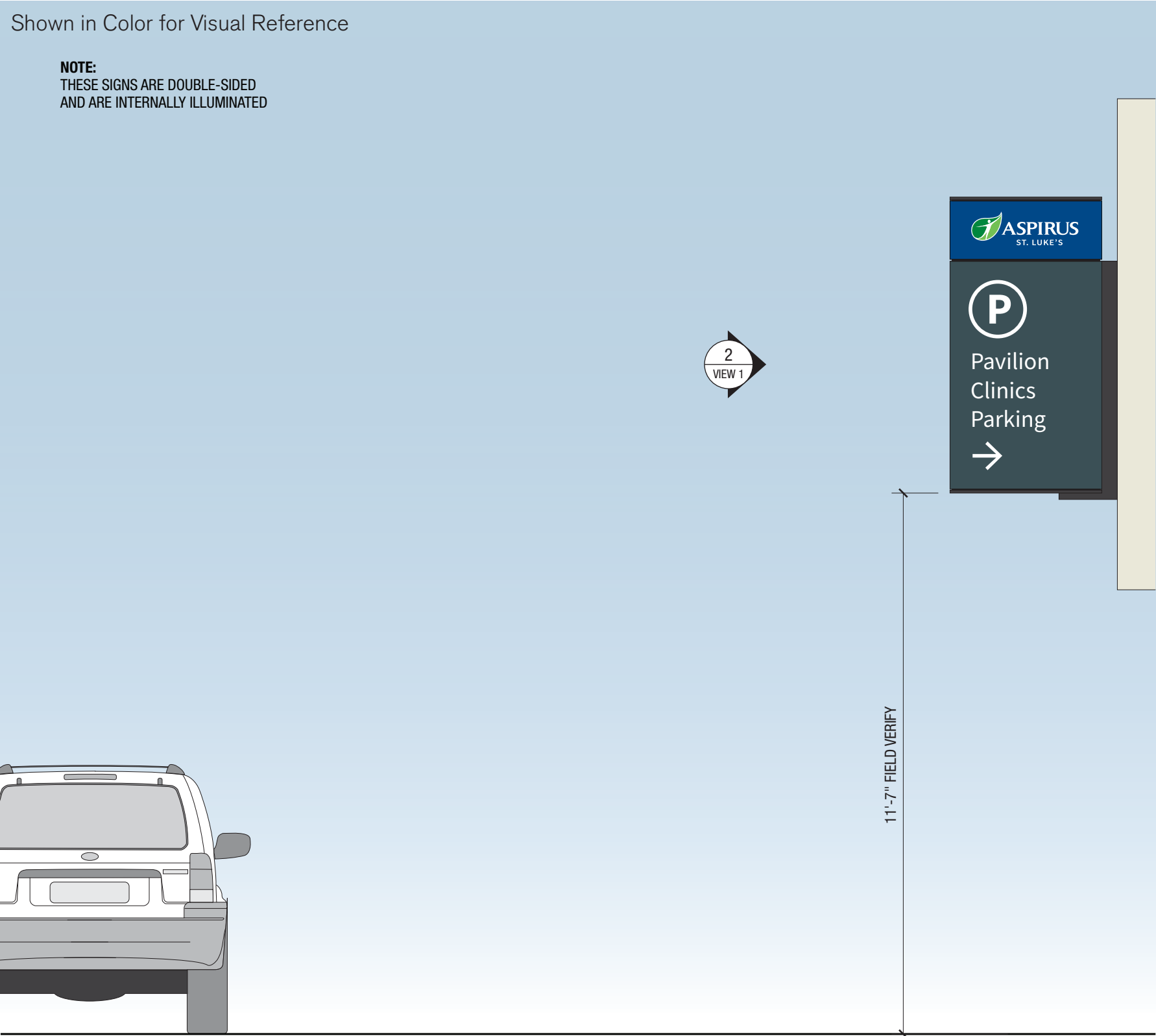
Project Number: 2024016.01

Sign Type E
Parking ID
Freestanding - DETAILS

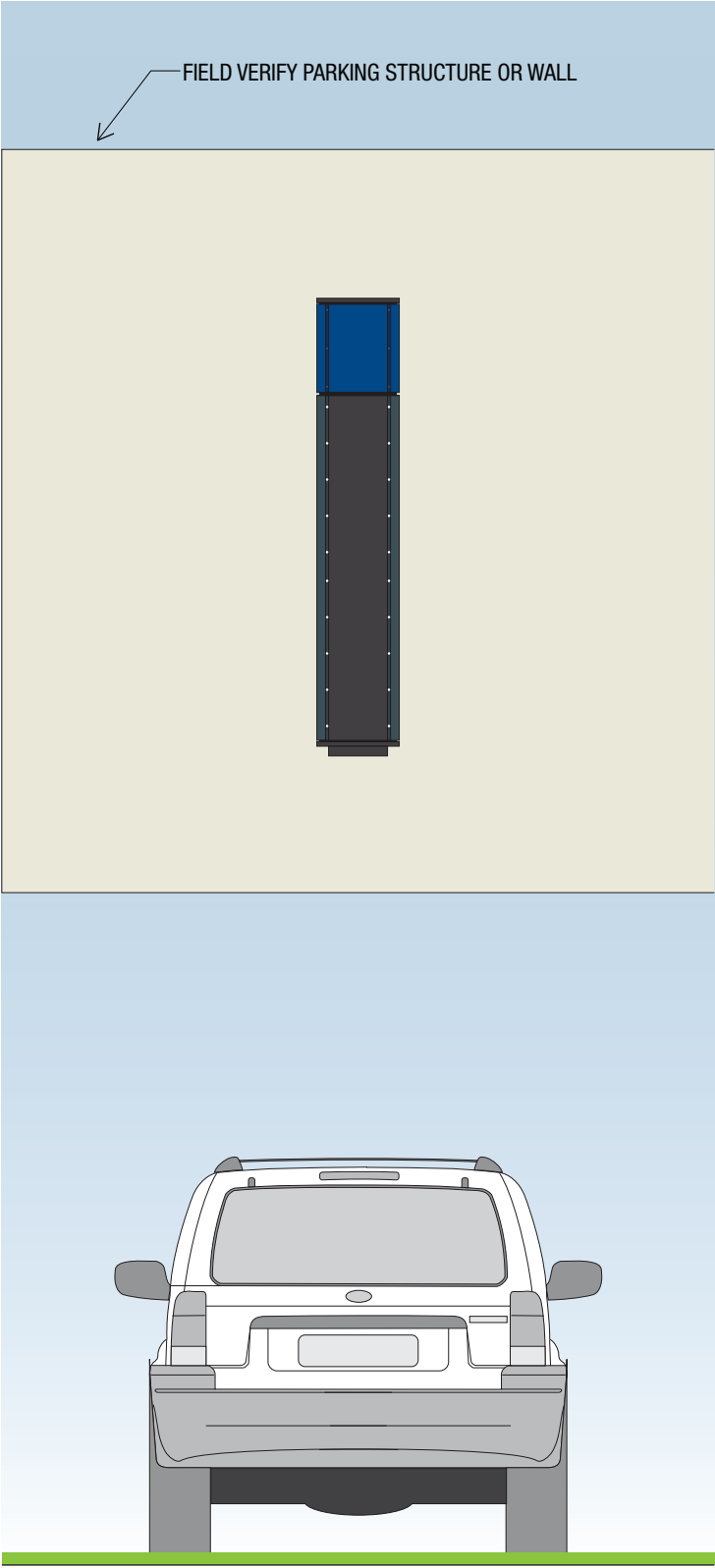
Drawn by: JR
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Shown in Color for Visual Reference

NOTE:
THESE SIGNS ARE DOUBLE-SIDED
AND ARE INTERNALLY ILLUMINATED



1 ELEVATION: Type F - Parking Identification
SCALE: 3/8"=1'-0"



1 ELEVATION: Type F - Parking Identification
SCALE: 3/8"=1'-0"

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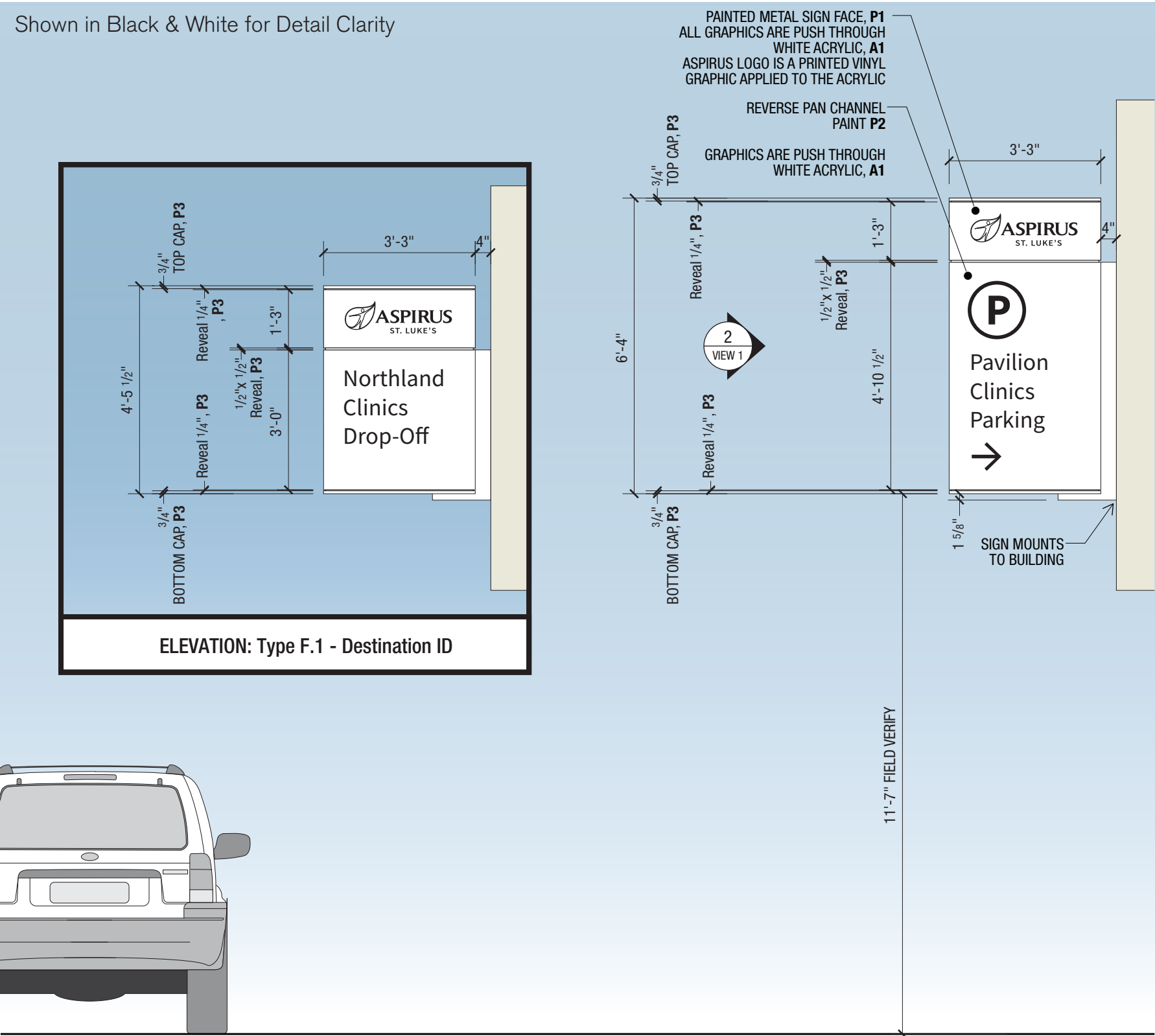
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Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

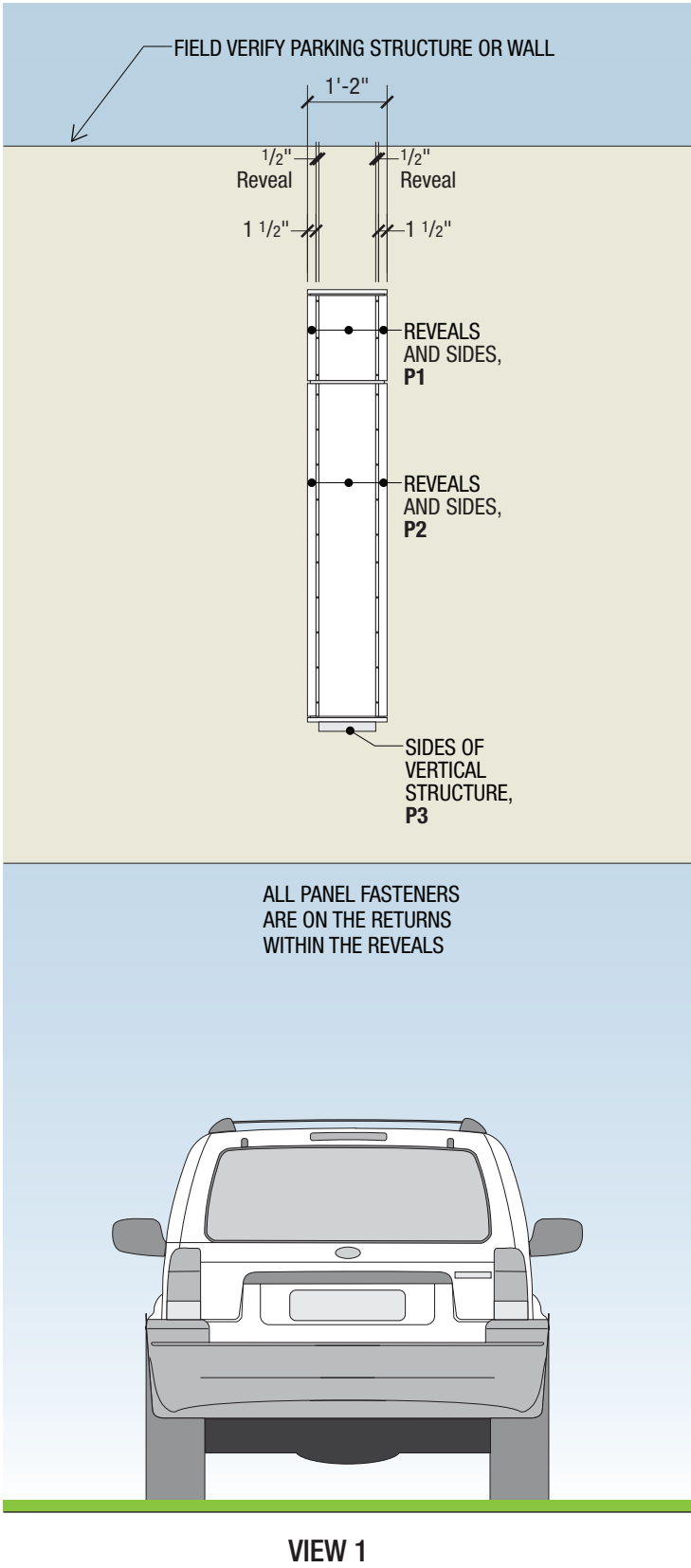
**Sign Type F
Parking ID
Building Mounted**

Drawn by: JR
Checked by: DL

Shown in Black & White for Detail Clarity



1 ELEVATION: Type F - Parking Identification - Building Mounted
SCALE: 3/8" = 1'-0"



1 ELEVATION: Type F - Parking Identification - Building Mounted
SCALE: 3/8" = 1'-0"

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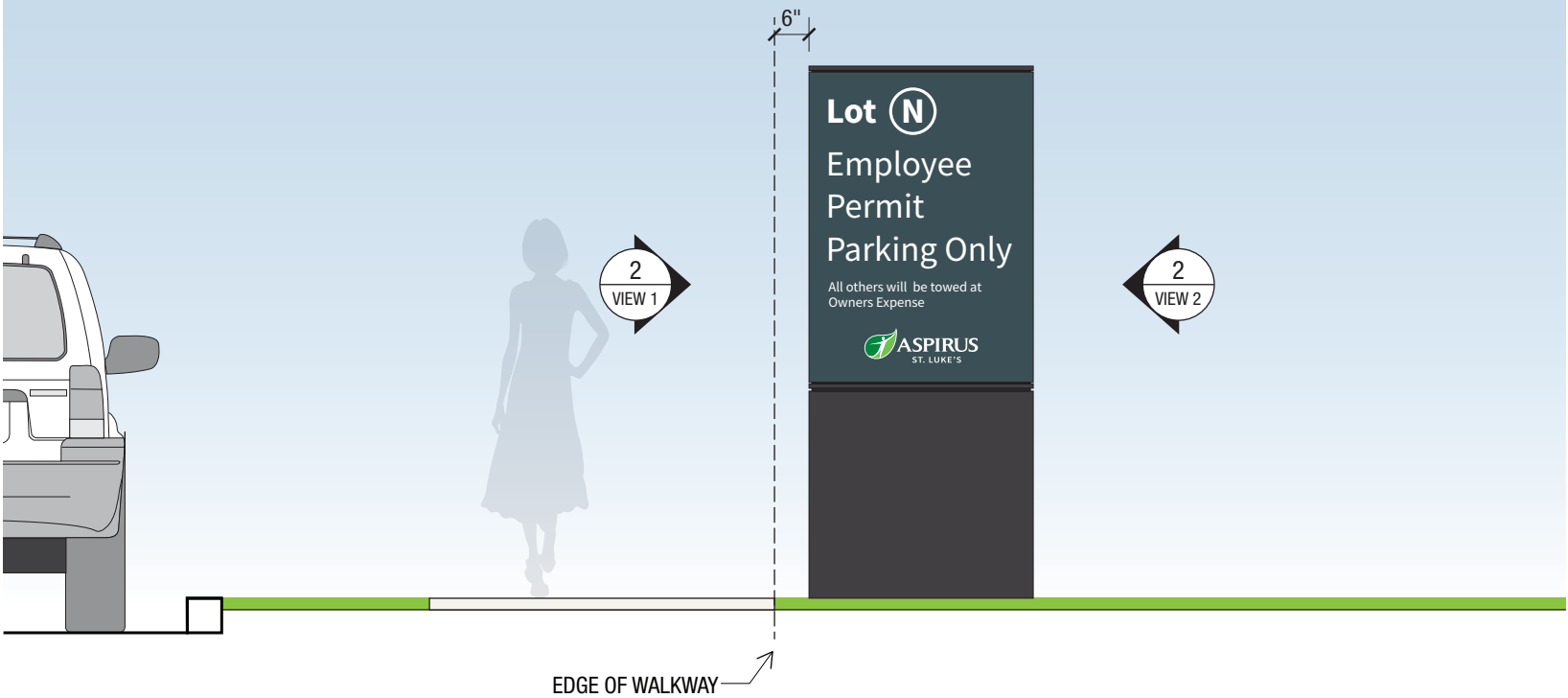
Project Number: 2024016.01

**Sign Types F & F.1
Parking ID
Building Mounted - DETAILS**

Drawn by: JR
Checked by: DL

Shown in Color for Visual Reference

NOTE:
THESE SIGNS ARE DOUBLE-SIDED
AND ARE NOT ILLUMINATED



1 ELEVATION: Type G - Parking Identification
SCALE: 3/8 " = 1'-0"



VIEW 1



VIEW 2

2 ELEVATION: Type G - Permit Parking Identification
SCALE: 3/8 " = 1'-0"

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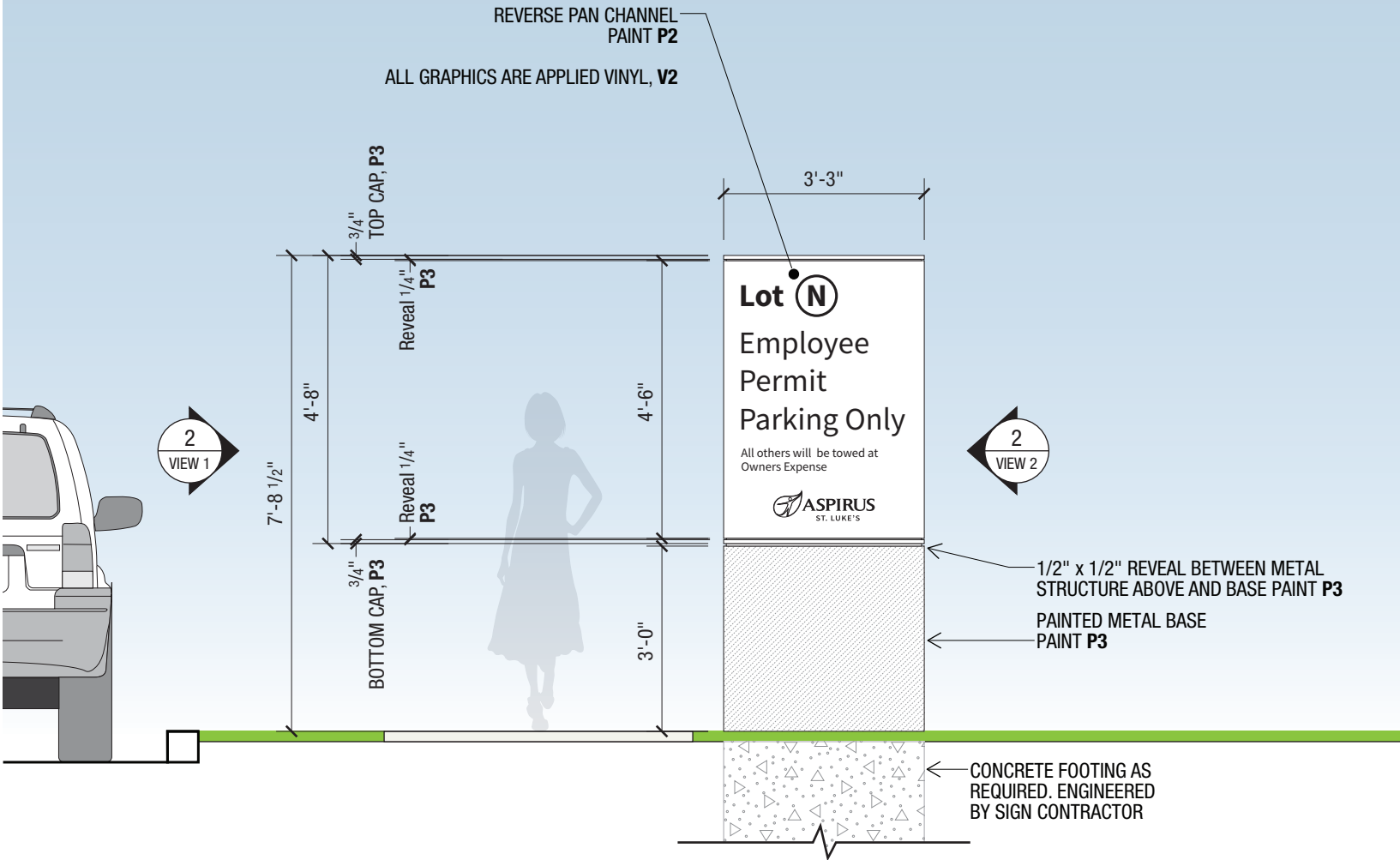
**Aspirus St. Lukes
Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

**Sign Type G
Permit Parking ID
Freestanding**

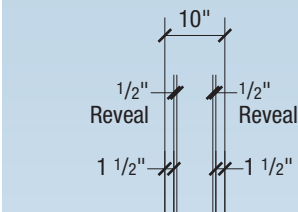
Drawn by: JR
Checked by: DL

Shown in Black & White for Detail Clarity



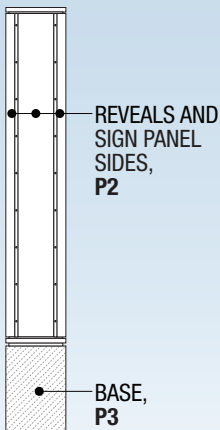
1 ELEVATION: Type G - Permit Parking Identification
SCALE: 3/8 " = 1'-0"

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



VIEW 1

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



VIEW 2

2 ELEVATION: Type G - Permit Parking Identification
SCALE: 3/8 " = 1'-0"

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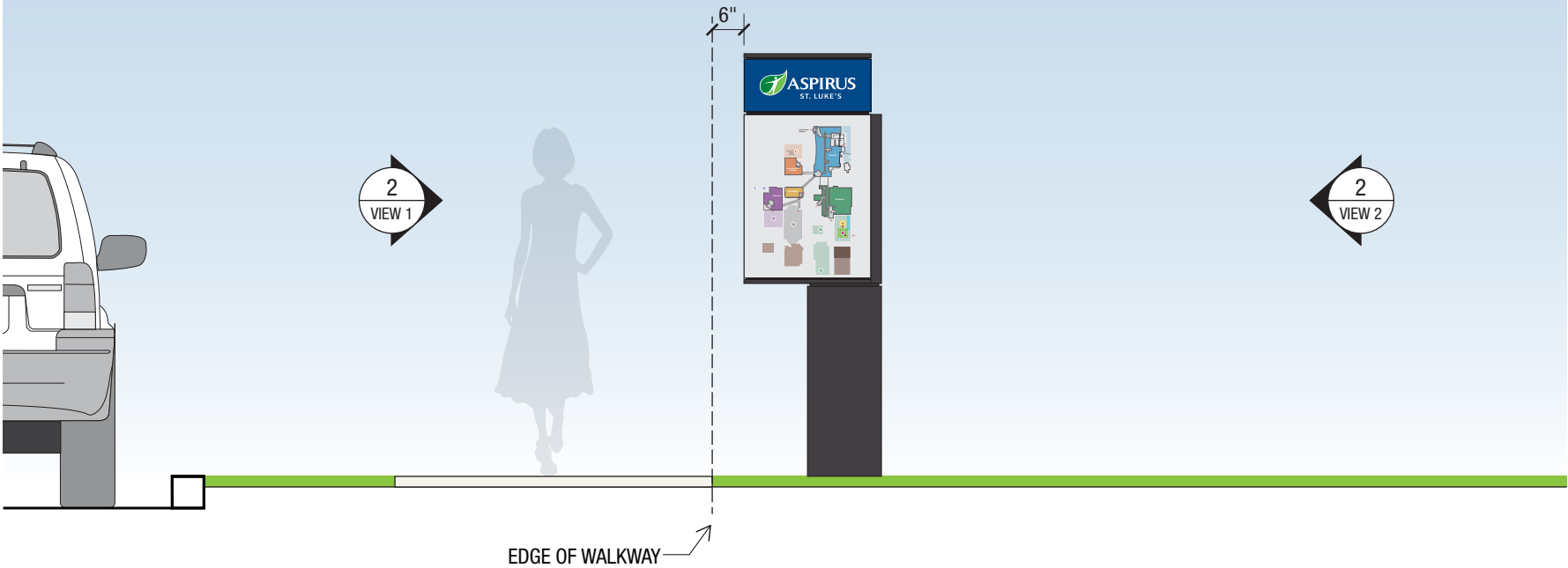
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**Sign Type G
Permit Parking ID
Freestanding - DETAILS**

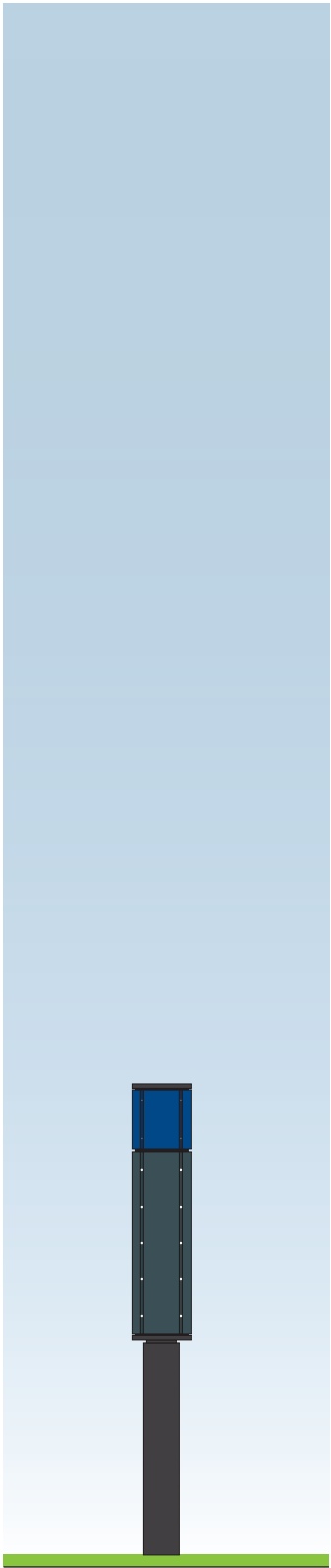
Drawn by: JR
Checked by: DL

Shown in Color for Visual Reference

NOTE:
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AND ARE NOT ILLUMINATED



1 ELEVATION: Type H - Pedestrian Directional
SCALE: 3/8 " = 1'-0"



2 ELEVATION: Type H - Pedestrian Directional
SCALE: 3/8 " = 1'-0"



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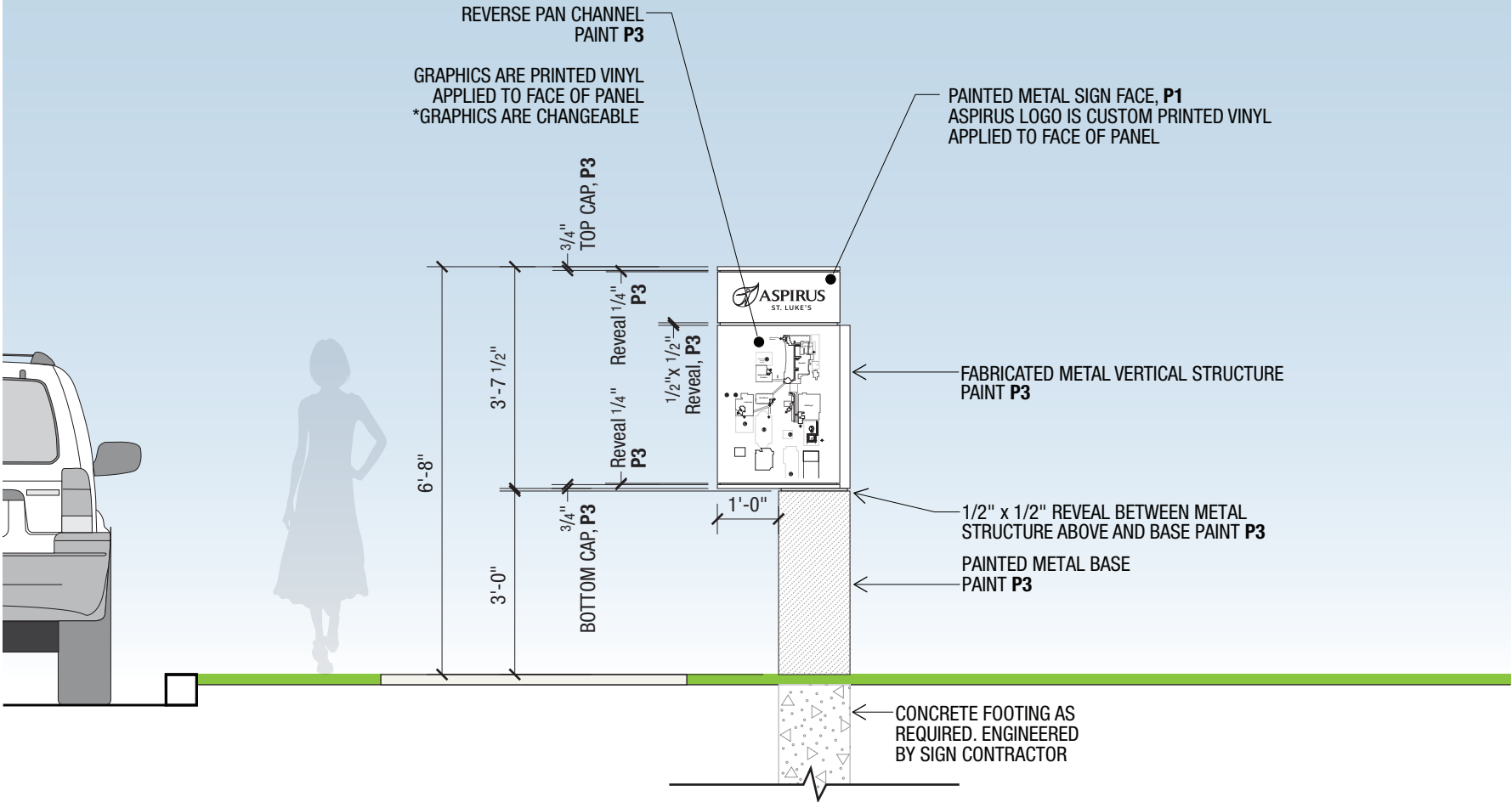
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Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

**Sign Type H
Pedestrian Directional**

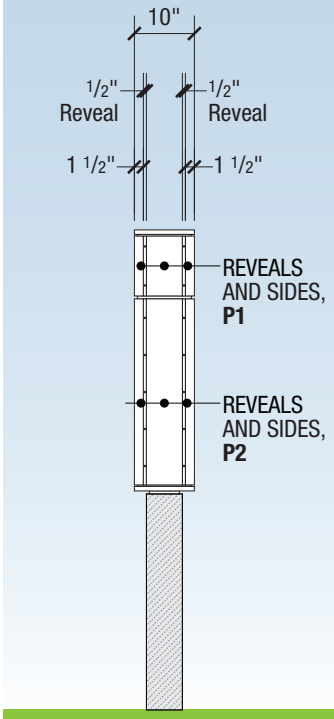
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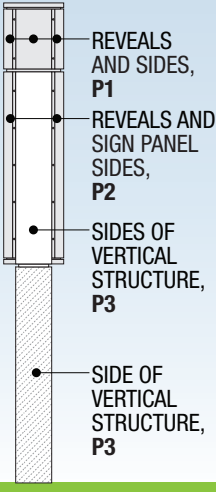
1 ELEVATION: Type H - Pedestrian Directional
SCALE: 3/8 " = 1'-0"

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



VIEW 1

ALL PANEL FASTENERS
ARE ON THE RETURNS
WITHIN THE REVEALS



VIEW 2

2 ELEVATION: Type H - Pedestrian Directional
SCALE: 3/8 " = 1'-0"

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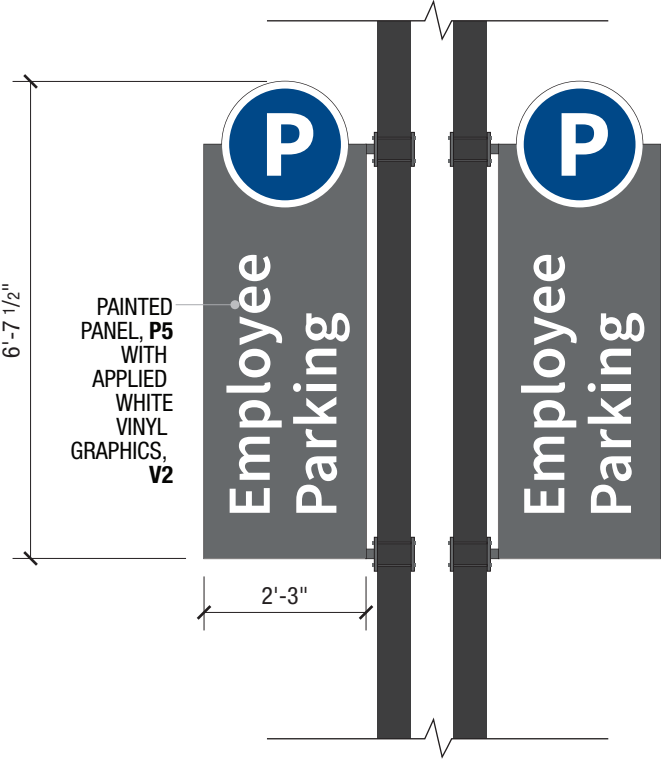
**Aspirus St. Lukes
Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

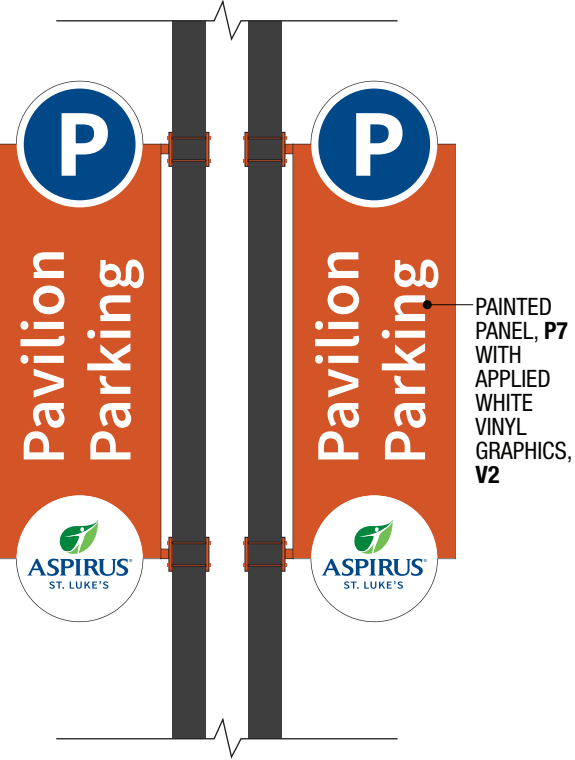
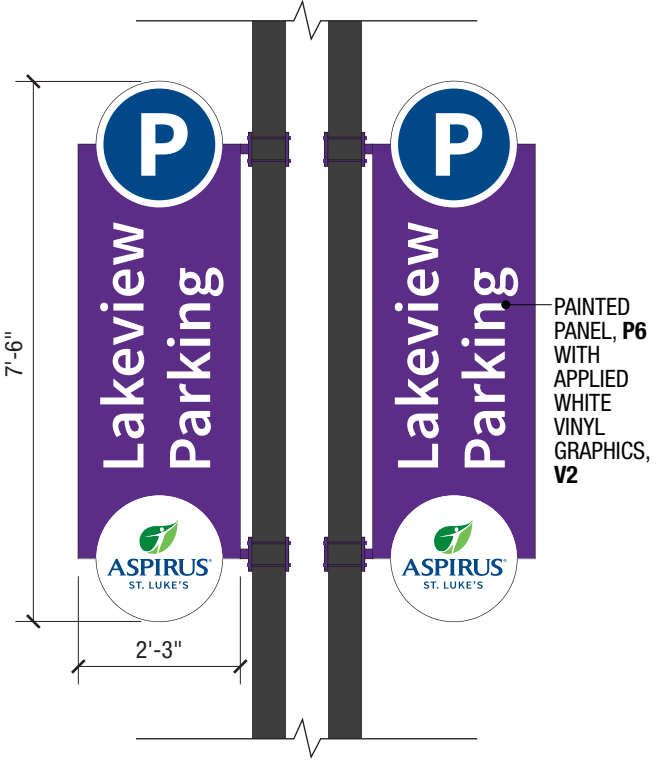
**Sign Type H
Pedestrian Directional
- DETAILS**

Drawn by: JR
Checked by: DL

NOTE:
THESE SIGNS ARE DOUBLE-SIDED
AND ARE NOT ILLUMINATED



NOTE:
ALL EXISTING SIGNS ARE TO BE
UPDATED WITH NEW FACE GRAPHICS



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**Aspirus St. Lukes
Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

**Type J
Parking Lot Light Pole ID**

Drawn by: JR
Checked by: DL



Existing Signs

1 ELEVATION: Type J - Parking Lot ID
SCALE: 3/8 " = 1'-0"



Lakeview Clinics Entrance

Existing.
Remove all existing graphics and vinyl from entry glass. Remove No Smoking sign.



Lakeview Clinics Entrance

Dashed outlined areas above to recieve new printed and cut vinyl graphics and messaging on exterior. Translucent blue vinyl applied to exterior of glass - **VT2**. Cut matte white opaque vinyl applied over translucent blue - **V2**. Printed Aspirus leaf logo on opaque vinyl also applied over translucent blue vinyl. Replace 'No Smoking' sign with new.

Provide field measurements of entrance glass and 'No Smoking' sign as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

NOTE: Sign Contractor to take an inventory of 'No Smoking' signs around the hospital campus and replace one for one.

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**Aspirus St. Lukes
Proposed Campus Signage Plan**
Duluth, Minnesota

Project Number: 2024016.01

**Building Entrance Signage
Lakeview Clinics**

Drawn by: JR
Checked by: DL



Lakeview Clinics Entrance

Existing.
Remove all existing graphics and vinyl from entry glass. Remove No Smoking Sign.



Lakeview Clinics Entrance

Dashed outlined areas above to recieve new printed and cut vinyl graphics and messaging on exterior. Translucent blue vinyl applied to exterior of glass - **VT2**. Cut matte white opaque vinyl applied over translucent blue - **V2**. Printed Aspirus leaf logo on opaque vinyl also applied over translucent blue vinyl. Replace 'No Smoking' sign with new.

Provide field measurements of entrance glass and 'No Smoking' sign as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Duluth, Minnesota

Project Number: 2024016.01

**Building Entrance Signage
Lakeview Clinics**

Drawn by: JR
Checked by: DL



9th Street Clinics Entrance

Existing.
Remove all existing graphics and vinyl from entry glass. Remove Drop Off Zone signs. Patch and paint as necessary.



9th Street Clinics Entrance

Dashed outlined areas above to recieve new printed and cut vinyl graphics and messaging on exterior. Translucent blue vinyl applied to exterior of glass - **VT2**. Cut matte white opaque vinyl applied over translucent blue - **V2**. Printed Aspirus leaf logo on opaque vinyl also applied over translucent blue vinyl. Replace 'Drop Off Zone' signs with new.

Provide field measurements of entrance glass and 'Drop Off Zone' signs as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Duluth, Minnesota

Project Number: 2024016.01

Building Entrance Signage
9th Avenue Clinics

Drawn by: JR
Checked by: DL



Old Hospital Building EXIT
Existing.
Remove all existing graphics and vinyl from entry glass.



Old Hospital Building EXIT
Dashed outlined areas above to recieve new printed and cut vinyl graphics and messaging on exterior. Translucent white vinyl applied to exterior of glass - **VT3**. Cut matte black opaque vinyl applied over translucent white - **V1**. Printed Aspirus leaf logo on opaque vinyl also applied over translucent blue vinyl. Replace 'Drop Off Zone' signs with new.

Provide field measurements of all entrance glass as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Hospital Entrance Canopy
Existing



Hospital Entrance Canopy
Reface existing hanging sign with new paint and vinyl graphics. Panel is painted Asprios brand blue, **P1**. White vinyl graphics are matte white opaque vinyl applied to sign face - **V2**. Provide field measurements of existing sign. KO&CO will provide final artwork in Adobe Illustrator format.



Hospital Entrance
Existing.
Remove all existing vinyl graphics and No Smoking sign.



Hospital Entrance
Dashed outlined areas above to recieve new printed and cut vinyl graphics. Translucent blue vinyl applied to exterior of glass - **VT2**. Cut matte white opaque vinyl applied over translucent blue - **V2**. Printed Asprios leaf logo on opaque vinyl also applied over translucent blue vinyl. Replace 'No Smoking' sign with new.

Provide field measurements of all entrance glass as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Duluth, Minnesota

Project Number: 2024016.01

**Building Entrance Signage
Hospital Entrance**

Drawn by: JR
Checked by: DL



Pavilion Parking Gateway

Existing.
Remove all existing signs. Patch, repair, and paint gateway structure as necessary.



Pavilion Parking Gateway

Dashed outlined areas above to recieve new printed and cut vinyl graphics on new panels. Panels are painted Asprius brand blue, **P1** and dark green, **P2**. White vinyl graphics are matte white opaque vinyl applied to sign faces - **V2**. Printed Aspirus leaf logo on opaque vinyl also applied to sign faces.

Provide field measurements of Gateway as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Project Number: 2024016.01

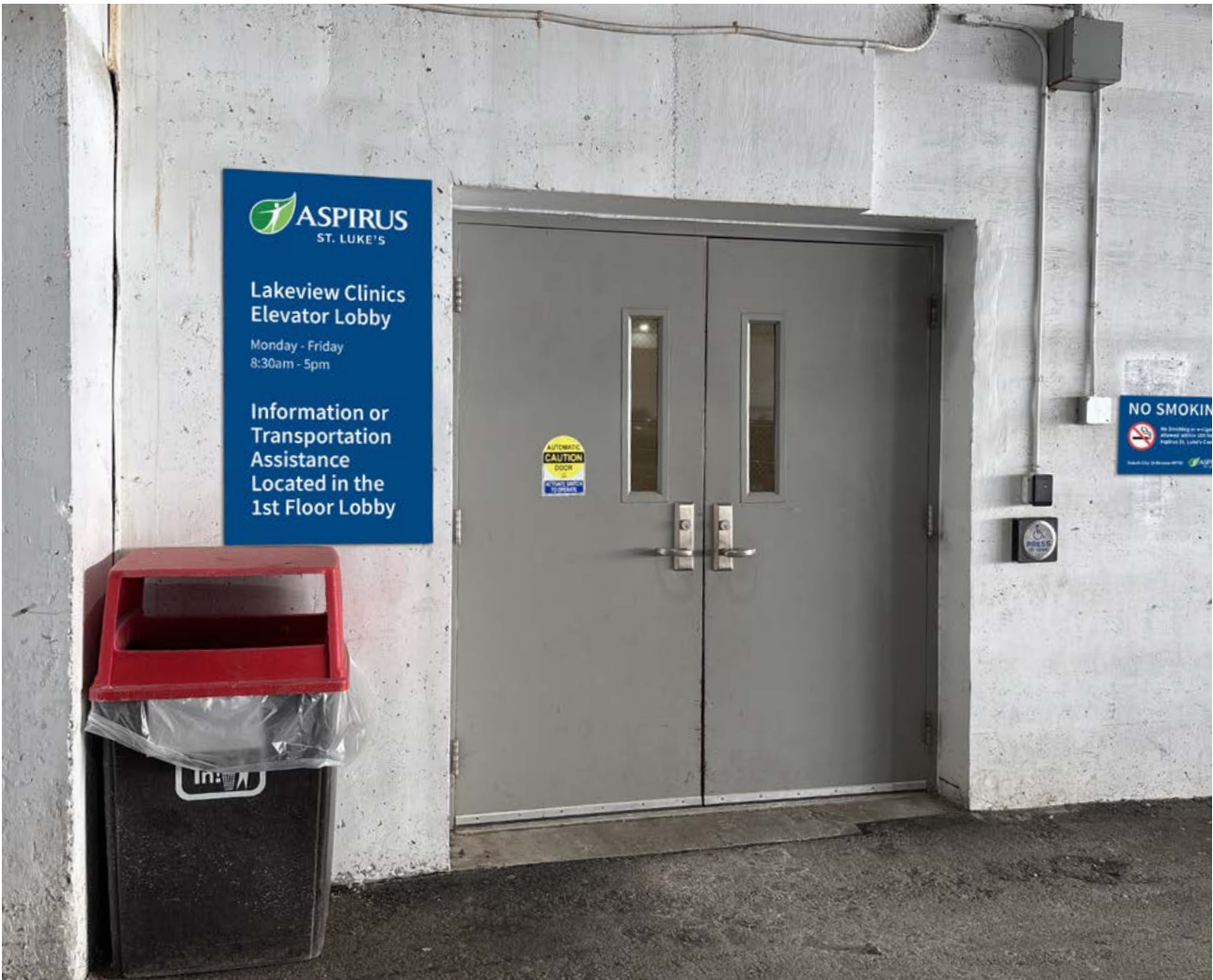
**Parking Gateway Signage
Pavilion Clinics**

Drawn by: JR
Checked by: DL



Pavilion Parking Gateway

Existing.
Remove all existing signs. Patch, repair, and paint wall and doors as necessary.



Pavilion Parking Gateway

Dashed outlined areas above to recieve new printed and cut vinyl graphics on new panel. Panel are painted Aspirus brand blue, **P1**. White vinyl graphics are matte white opaque vinyl applied to sign faces - **V2**. Printed Aspirus leaf logo on opaque vinyl also applied to sign face. Add and/or replace 'No Smoking' sign(s) with new.

Provide field measurements of Gateway as required for final layout of graphics. KO&CO will provide final artwork in Adobe Illustrator format.

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Building Entrance Signage
Pavilion Clinics

Drawn by: JR
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Brand Lighting Strategy



Push through logo and letters - logo and letters are internally illuminated

GENERAL NOTES &
CONDITIONS

SPECIFICATIONS

Existing Sign Removal & Surface Repair

- Refer to specific location drawing sets for existing signs to be removed.
- Contractor to inspect areas of all existing signs to be removed and inform owner of any damage, maintenance needs, or unsafe conditions.
- Building-mounted Signs: Contractor to remove all signs designated for removal and patch, repair, clean, paint, or refinish building as required to match existing adjacent conditions; all final repair to appear seamless with adjacent undamaged areas and as though original sign never existed (e.g. clear silicone fill alone for patching holed in masonry is not acceptable, fill must match color of brick and mortar). Metal panel repair may require repacing full panel(s) based on existing system/conditions. Terminate existing electrical if sign is not being replaced with new powered sign.
- Freestanding Signs: Sign contractor to remove all signs designated for removal including footings unless noted otherwise on specific drawing sheets; backfill to existing grade and plant grass seed, mulch, or finish concrete to match existing conditions. No additional landscaping is currently in scope other than as noted below. Terminate existing electrical if sign is not being replaced with new powered sign.

Civil/ Landscaping

- Extent of finished landscaping for freestanding signs is backfill to grade and plant grass seed or mulch to match adjacent unless otherwise noted as topsoil only.

Electrical Work

- Refer to specific drawing and plan sheets for signs requiring power.
- Contractor is responsible for running power to all signs illuminated signs as required where existing power source is not available. Verify all conditions and coordinate as required with Owner; provide cost and proposal accordingly. **If unable to verify and provide cost for bid, provide allowance for documenting electrical scope (to be bid out and awarded to electrical contractor).**
- Contractor is responsible for all required electrical components,connections for signage.
- Contractor is responsible for terminating existing electical for removed powered signs as described above.

Structural Engineering

- Contractor is responsible for the design of the structural elements and the structural integrity of all signs; and any stamped engineering drawings for permitting.

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Client:



Aspirus St. Lukes
Duluth, MN

Authorized Use:

Design Intent - Draft

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Duluth, Minnesota

Project Number: 2024016.01

**General Notes
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Checked by: DL

Sign Locations & Quantities

All final locations to be verified in the field with Owner. Contractor responsible for verifying existing conditions as noted in drawings and for documenting final locations. Signs may be added or removed based on verified conditions

Sign Layout Artwork

Designer to provide electronic layout artwork for all signs based on field verification and shop drawing dimensions from Sign Contractor.

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**General Notes
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PART 1 - GENERAL

1.1 SUMMARY

- A. The work includes the manufacture and installation of exterior signs.
- B. The Sign Contractor shall provide all labor, materials, equipment and services necessary for the fabrication, delivery and installation of signage as described in the detail drawings, including all fasteners, connectors, hardware and support structures, and as needed for a complete and proper installation. The Sign Contractor is responsible for visiting the Project site prior to starting the work and field verifying all existing conditions and dimensions, and shall notify the Designer and Owner immediately of any discrepancies.
- C. Refer to the Message Schedule for a complete list of sign types and quantities. Signs listed on Message Schedule should match those indicated on sign location plans. The Sign Contractor shall notify the Designer and Owner immediately of any discrepancies in sign quantities or locations.

1.2 SUBMITTALS

- A. The Sign Contractor shall not begin fabrication without approved Shop Drawings, Product Data, and Samples.
- B. Limitations on Substitutions:
 - 1. Sign Contractor-requested Substitutions for any materials, products, colors, and components will only be considered for acceptance if the following conditions are met:
 - a. Documented Delivery Problem: The Sign Contractor must provide substantial written documentation to support a claim of a delivery problem which is in conflict with the fabrication/installation schedule, including but not limited to copies of correspondence to and from the product manufacturer which demonstrates that a delivery problem exists relative to the timely completion of the work. Delivery problems caused by the Sign Contractor or any subcontractor failure to place orders for materials or items in a timely manner shall not be considered.
 - b. Requests for Substitution will NOT be considered during the Bid period. Sign Contractor’s bid shall be based on the Drawings and Specifications.
 - c. Sign Contractor-requested product substitution will NOT be considered if the Sign Contractor or any subcontractor has delayed executing subcontract labor agreements or scheduling subcontract work from the time of contract award.
- C. Substitutions will NOT be considered when indicated on shop drawings or product data submittals without prior approval by Designer.
- D. Substitutions will NOT be considered when requested directly by subcontractor or supplier.
- E. Additional studies, investigations, submittals, redesign and/or analysis by the Architect/Engineer or Designer caused by the requested substitutions shall be paid

by the Sign Contractor at no expense to Owner.

- F. Substitute products shall NOT be ordered or installed without written acceptance by Designer or Owner.
- G. Requests For Substitution:
 - 1. All Requests For Substitution submitted by the Sign Contractor shall include, for all products, finishes, or materials proposed to be substituted: Complete manufacturer’s product specification information; MSDS; catalog information; full range of colors and options available as applicable; and documentation demonstrating that the substitute product is equal to the specified product.
 - 2. Request For Substitution constitutes a representation that the Sign Contractor has investigated the proposed product and has determined that it is equal to or superior in all respects to the specified product.
 - 3. Request For Substitution constitutes a representation that the Sign Contractor will provide the same type of warranty for substitution as for the specified product.
 - a. Sign Contractor’s warranty shall be in writing guaranteeing all substituted products have same or superior performance as the product specified.
 - 4. Request For Substitution constitutes a representation that the Sign Contractor will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.
 - 5. The Sign Contractor shall state in writing the reason for the Request For Substitution; e.g., time, price, better quality, etc.
- H. Shop Drawings:
 - 1. Shop Drawings shall be submitted in electronic format (PDF).
 - 2. Sign Contractor shall provide complete fabrication and installation drawings for each type and version of sign, and each installation condition, clearly mark drawings with sign type and location, and indicate all dimensions, materials, components, parts, connections, and devices. Field-verified dimensions and conditions shall be included in shop drawings where applicable.
 - 3. Sign Contractor shall provide accurately scaled pattern layouts (in electronic format) for all signs of each type. All letter styles, fonts, and graphic elements shall be faithfully reproduced. Do not re-submit Message Schedule.
 - 4. Sign Contractor shall provide a copy of their stamped and signed Structural Design Drawings and Calculations, for record purposes only.
- I. Product or Catalog Data:
 - 1. Product or Catalog Data shall be submitted in electronic format (PDF)
 - 2. Submit only pages which are pertinent, or manufacturer’s standard drawings modified to delete non-applicable data:
 - a. Clearly mark the product information or catalog to identify pertinent materials, products, or models.
 - b. Clearly mark-the data to identify the sign type or specified material which it references.
 - c. Show dimensions and clearances required.
- J. Samples:

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1.

Submit (3) samples of the following items:

a.

Each type exposed metal used, with respective finish (5"x5" min. size).

b.

Each type plastic used, with respective finish (5"x5" min. size).

c.

Each type adhesive vinyl film, including computer-cut designs. Samples shall include actual fonts, glyphs or designs as specified in project. Sample size shall be large enough to clearly depict fonts or patterns.

d.

All specified paint colors and finishes, on actual materials to be provided in project. If paint or finish has an appearance range or variation, provide a range of samples including extreme appearances.

e.

Each type of stone or stone veneer (min. 12 inch high by 12 inch wide by 1 inch.); include samples of grout and/or joint sealants.

f.

Special letters, numbers, or logo types.
2.

Samples of each piece of hardware, that is visible on the exterior all finished signs, are to be submitted for approval.

K. Submittal Review:

1.

Designer shall review submittals and return to Sign Contractor for revisions or re-submittals as indicated, within (7) business days of receipt.
2.

Designer's review of submittals does not relieve the Sign Contractor of the responsibility to complete all work in accordance with the Contract Documents.

L. Typography

1.

Lettering shown on the Contract Documents are intended as guidelines for layouts and type size only, and are based on scale calculations of the message lengths within estimated sign areas. Should conflicts arise in the final message layout, notify the Designer before proceeding. Notations contained within parenthesis () in the message schedule are instructions referencing a name to be supplied by the Owner or other instructions.
2.

The Sign Contractor shall be responsible for purchasing all required fonts for the project.
3.

All type shall be straight and accurately spaced with correct spelling and punctuation.

M. Artwork

1.

Artwork representing typical sign types and representative messages shall be provided in electronic form (Adobe Illustrator, Adobe Photoshop), by the Designer. It is the responsibility of the Sign Contractor to access and translate the digital information correctly.
2.

Sign Contractor shall be responsible for preparation of all Final Artwork (including, but not limited to: type, arrows, imagery, drawings, photographs, symbols) necessary beyond that provided with contract award and for any touch-up of artwork for photographic enlargement.
3.

Quality of artwork for finished signage shall be the responsibility of the Sign Contractor. Owner and Designer reserve the right to reject artwork if it fails to meet the standard of quality established.
4.

Do not, under any circumstances, use Contract Documents as final art.

1.3 ENGINEERING AND FABRICATION METHODS

- A.

The Sign Contractor is responsible for structural and electrical engineering; structural integrity of signage, sign mountings, and attachments; and fabrication means and methods. Any significant structural or engineering changes in design, materials, fabrication techniques, or details that the Sign Contractor deems necessary to the successful completion of the Project shall be communicated in a timely manner to the Designer and Owner, and shall be subject to the following conditions:

1.

Proposed changes solely related to cost issues shall not be considered. The Sign Contractor's bid shall be based on the Drawings and Specifications.
- B.

Further development and engineering of Designer's details for fabrication and installation is required and shall be shown in the Sign Contractor's shop drawings.
- C.

Nothing in this section shall be construed as allowing the Sign Contractor to make substitutions of any specified product or finish material without submitting a Request For Substitution and receiving Owner and Designer approval.

1.4 QUALITY ASSURANCE

- A.

The work shall comply with all applicable codes and regulations as enforced by the governing jurisdiction.
- B.

All signs shall comply with applicable provisions of the Americans with Disabilities Act, ADA Standards for Accessible Design, as revised 2010 (ADA).

1.

Lettering and graphics including, but not limited to, copy height, letter stroke, symbols, materials, and finishes shown on the Contract Document are intended as guidelines for compliance. Should conflicts or questions arise, notify the Designer before proceeding.

2.

Where braille copy is required, the Sign Contractor is responsible for the coordination of all messages in conjunction with sign schedule. Braille copy shown on Contract Documents is for general size and position only and should not be used for full message.

3.

The Sign Contractor shall provide written documentation the braille translation included on the signage has been evaluated by the American Foundation for the Blind and is, in their opinion, correct and compliant with ADA.
- C.

The work shall comply with the highest relevant industry and trade standards, and standards as indicated in product sections of this specification.
- D.

Unless otherwise specified, materials and equipment shall be new and of the latest design.
- E.

Use only personnel thoroughly skilled and experienced with the products and method for fabrication and installation of signage specified.
- F.

The Owner shall reserve the right to reject any shop drawings, samples or other submittals, as well as any finished product or installation, that cannot meet the standard of quality established. Any such decision will be considered final and not subject to recourse.
- G.

Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the quality level established.

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Checked by: DL

H. Structural Design and Calculations: It shall be the responsibility of the Sign Contractor to provide complete structural design for signs and signage supports, foundations and attachments as required, and to coordinate with all other work. Design must meet all applicable local, state, and national codes, as well as testing laboratory listings where required. Sign Contractor drawings and calculations shall be prepared, stamped, and signed by a licensed structural engineer in the State of Minnesota.

1.5 DELVERY STORAGE & HANDLING

- A. Transport, deliver, handle, and store materials and equipment at the job site in such manner as to prevent damage, including damage to finish and damage which might result from the intrusions of foreign matter or moisture from any source.
- B. Packaging:
- 1. Maintain packaged materials in manufacturer’s original container with seals unbroken and labels intact until they are incorporated into the Work.
 - 2. Protect finishes on exposed surfaces from damage by application of strippable temporary protective covering prior to shipment.
 - 3. Protect assemblies from injury at the shop, in transit to the job and until erected in place, completed, inspected and accepted.
 - 4. Packaged material shall bear the name of the manufacturer, the product, including brand name, color, stock number, and all other complete identifying information.
 - 5. Packages showing indications of damage that may affect conditions of content are not acceptable.
- C. Store all materials and equipment:
- 1. In accordance with manufacturer’s instructions, above grade, and properly protected from weather and construction activities.
 - 2. For any attic stock ordered, package separately or in like groups labeled as to contents. Include installation hardware, adhesives and installation instructions; include a reasonable array of alternate adhesives, fasteners or materials to be able to respond effectively to varying field conditions.

1.6 SCHEDULING

- A. Within (14) business days of being awarded the contract, the Sign Contractor shall prepare and present to the General Contractor, Owner and Designer a schedule for submittals, reviews, fabrication and installation of the work. The Sign Contractor is responsible for coordinating the schedule of all necessary work with the General Contractor.

1.7 MAINTENANCE

- A. Maintenance Materials:
- 1. Touch-up paint: Provide Owner with one 1/2 pint can of touch-up paint of each type and color used in the work.

2. Extra parts: Sign Contractor shall provide a listing of extra stock or parts furnished as part of the Contract.

B. Maintenance Manual:

- 1. Provide electronic files of all shop drawings, product data, parts lists, nameplate data, warranties, and other information described in this section.
 - a. Provide all information in 8-1/2 x 11 or folded 11 x 17 sheets in tabbed and labeled three ring binders.
 - b. Provide specific manufacturer’s warranty. List each component covered, with day and date warranty begins, date of expiration, and name, address and telephone number of person to contact regarding problems during warranty period.
 - c. Provide names, addresses, email addresses, and telephone numbers of Sign Contractor and Sign Installation Contractor.
 - d. Compile and maintain a listing of all paint colors with the factory batch number and formulation code for all paints and coatings, including contact information for local representative.
- 2. Provide each manufacturer’s recommendations and instructions for maintenance of all items and materials:
 - a. The instructions shall cover cleaning, repair, repainting and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.

1.8 WARRANTIES AND SUBSTANTIAL COMPLETION

- A. Provide written warranty signed by the Sign Contractor agreeing to repair or replace products which fail because of faulty materials, workmanship, and design for a minimum period of two years from date of substantial completion, or within parts manufacturer’s specified warranty, whichever is greater.
- 1. Vinyl die-cut letters shall be warranted for five years against delamination from substrate.
 - 2. Paint finishes shall be warranted for seven years against chalking and fading.
- B. Failure includes, but is not limited to: Fading, cracking, crazing, warping, peeling, fading, oxidizing, delaminating, rusting, corroding, improper functioning of electrical apparatus other than lamps, loose welds or fasteners, loose joints or panels, and structural failure, including distortion by whatever cause, shall be construed to mean failure because of faulty materials and workmanship.
- C. Failures during the warranty period shall be repaired or replaced to the satisfaction of the Owner.
- D. Products corrected under warranty shall have a warranty extension of minimum one year from the date of correction in addition to the two-year warranty.
- E. Punch List:
- 1. When the Sign Contractor considers the work to be acceptable to the Owner and Designer and is substantially completed, the Sign Contractor shall notify the Owner and Designer and request a Punch List.
 - 2. When the Designer has observed the work and determined that the work or designated portion thereof is substantially complete, he will prepare and issue

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the Punch List and letter to the Owner and Sign Contractor indicating the project is substantially complete, or if not substantially complete, describing the portion of the work that is not acceptable.

- 3. This letter shall establish the date of Substantial Completion and shall fix the schedule in which the Sign Contractor shall complete the items listed in the Punch List.
- 4. Failure by the Designer to include any items on the Punch List does not relieve the Sign Contractor of the responsibility to complete all work in accordance with the Contract Documents.

F. Warranties shall commence on the Date of Substantial Completion of the Work or designated portion thereof.

PART 2 - PRODUCTS

2.1 GENERAL SIGN CONSTRUCTION

- A. It is intended that all finished work be of the highest quality to pass eye-level examination and scrutiny by the Designer and Owner.
 - 1. Construct all work to eliminate burrs, dents, cutting edges, and sharp corners.
 - 2. Finish welds on exposed surfaces shall be of the correct type to eliminate distortions of flat surfaces, and to be imperceptible in the finished work. At exposed connections, all flux, oxides, slag, and discolorations shall be removed so that these areas match the finish of adjacent areas. Any damage by welding must be repaired by grinding, polishing or buffing.
 - 3. Except as indicated or directed otherwise, finish all surfaces smooth.
 - 4. Surfaces which are intended to be flat shall be without dents bulges, oil canning, gaps, or other physical deformities.
 - 5. Surfaces which are intended to be curved shall be smoothly free-flowing to required shapes.
 - 6. Except where approved otherwise by Designer, conceal all fasteners.
 - 7. Make access panels tight-fitting, lightproof, and flush with adjacent surfaces.
 - 8. Place all identification labels and U.L. labels to conform to U.L. Codes in a discreet location.
 - 9. Carefully follow manufacturer’s recommended fabricating procedures regarding expansion/contraction, fastening, and restraining of acrylic plastic.
 - 10. Exercise care to assure that polished, plated, or finished surfaces are unblemished in the finished work.
 - 11. Isolate dissimilar materials. Exercise particular care to isolate nonferrous metals from ferrous metals.
 - 12. Sign Contractor responsible for coordination of work with other trades.
 - 13. Hangers, brackets and accessories shall be of the type indicated, and of size, material and construction to provide appropriate structural support as calculated by the Sign Contractor. Where such items are not specifically called for, provide hangers, brackets and accessories as required for the proper execution of the work, as approved by the Owner.

2.2 CUTTING AND ENGRAVING

- A. Engraving: Machine-engrave letters and shapes into sign material to a uniform depth without variation.
- B. Push-Through Letters: All “push-thru” or “punch-through” letters are to be through-cut with clean edges. Remove all saw marks and irregularities, chips, etc. provide uniform minimum required space between acrylic infill and sign face material for temperature expansion and contraction. All acrylic infill to be mechanically attached to sign face with blind (no exposed fasteners on sign face) mechanical fasteners designed to allow required movement for expansion and contraction.

2.3 PAINTING AND FINISHING

- A. Products:
 - 1. Aliphatic Polyurethane Enamel: Low VOC M.A.P. High Solids Acrylic Polyurethane System, Matthews Paint Co, Pleasant Prairie, WI 53158. (1-800-323-6593) Manufacturer’s specification MPC108.
 - 2. Clear topcoat over all painted surfaces: Matthews VOC clear topcoat products, gloss level to be determined by application.
 - 3. Gloss level of finish shall be as indicated on drawings.
- B. Application and Finish: Coatings shall be applied by an applicator having facilities, equipment and experience required to apply the finish to manufacturer specifications. All substrates shall be cleaned of any foreign substance such as oil, grease, dirt, etc.
 - 1. Aluminum components to receive painted finish: All faces shall be etched to give an even satin finish and remove oxidation, then conversion coated to improve paint adhesion and inhibit corrosion. Surface shall be belt-sanded for a smooth finish, edges filed and ground then immersed in hot alkaline cleaner to remove contamination.
 - 2. Provide manufacturer’s Recommended System as appropriate for specific substrates and applications.
 - 3. An acid-wash prime coat shall be applied per manufacturer’s specifications when using raw metal as a substrate.
 - 4. A primer / filler seal coat shall be properly applied to all substrates per manufacturer’s specifications.
 - 5. Primer / filler coat shall be sanded smooth before topcoating and coated with a minimum of two applications of acrylic polyurethane in colors as indicated on the drawings. Top coating shall be applied per manufacturer’s recommendations to a minimum total dry film thickness of 2.0 mil.
 - 6. All painting shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.
 - 7. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes.
 - 8. Adhesion: No removal of any finish after 1/16” cross-hatching to base metal, impacting to the point of metal rupture, and subjecting to application and quick

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- removal of cellophane tape.
- C.

Pigmented (Opaque) finishes: Completely cover to provide an opaque, smooth surface of uniform color, appearance, and cover. Cloudiness, spotting, holidays, laps, brush marks, orange peel, runs sags, or other surface imperfections will not be acceptable.
- D.

All silkscreening shall be free of oxidation, cracking, chipping, or any defect. Sign Contractor shall be required to touch-up or otherwise repair any damage to painted surfaces to the satisfaction of the Designer or Owner.

2.4 ELECTRICAL

- A.

Sign Illumination: All illuminated signs and letters shall have an evenly distributed lighted surface. All areas of illumination shall be of equal intensity in all parts of the sign or illuminated letter. Non-illuminated areas of signage shall not have light leaks. All weep holes shall have baffles to prevent light leak.
- B.

Conform to State Electrical Code, National Electrical Code, and U.L. listings for all materials. Provide wiring and conductors as required by code and specific application. Sign Contractor is responsible for making final connections at all signs. Make provisions for future servicing of all electrical and lighting components.
- C.

Required disconnect switches shall be provided. Locations shall be inconspicuous and shown on shop drawings for approval by Designer. Use heavy duty, fused or unfused, by Square D™, ABB, or equal. Provide NEMA 1 for dry locations and proper enclosure for others.
- D.

LED:

1.

Provide all the necessary components required for a complete operational lighting system. Illumination at faces of letters and sign panels to be even and shadow free. System to include all necessary modules, cable & connectors, mounting accessories, and power supplies to achieve a completely operational U.L. rated system.

2.

Halo Illuminated Letters and Halo Illuminated Monument Sign Panel: provide Tetra® Lighting System or Approved Equal, specific model as required for optimal illumination, follow all manufacturers guidelines:

a.

Tetra® Mini Max (for small channel letters as shallow as 3” in depth)
Color Temp: 3,200K | Lumens: 30 lumens /module
Viewing Angle: 150 degrees | Lamp Life: 50,000 hours.

b.

Tetra® Max (for medium-size channel letters as shallow as 4” in depth)
Color Temp: 3,200K | Lumens: 43 lumens /module
Viewing Angle: 150 degrees | Lamp Life: 50,000 hours.

c.

Tetra® Power Max (for large channel letters from 4” to over 6” deep)
Color Temp: 3,200K | Lumens: 109 lumens /module
Viewing Angle: 170 degrees | Lamp Life: 50,000 hours.

3.

Back-lit Push Through Letters and Back-lit Sign Panels: provide Tetra® Lighting System or Approved Equal, specific model as required for optimal illumination, follow all manufacturers guidelines:

d.

Tetra® Power Strip
Color Temp: 4,100K | Lumens: 300 lumens /module – single sided and 600 lumens/module double sided
Viewing Angle: 140 degrees | Lamp Life: 50,000 hours.

2.5 METAL MATERIALS

- A.

Aluminum Extrusions:

1.

Conform to ASTM B- 221, Alloy 6063-T6. Shapes, sizes and weights of members shall be as required for structural stability. All connections of aluminum members shall be heli-arc welded, continuous fillets, ground smooth on all exposed faces, unless specifically detailed otherwise.

2.

Finishes as shown on drawings.
- B.

Aluminum Finishes:

1.

Finishes shall be consistent in color and surface appearance throughout the project.

2.

Matte finish - clear anodized: AA M12 C22 A41. Except as otherwise indicated or directed by Designer, use this type finish for all exposed aluminum.

3.

Matte finish - color anodized: AA M12 C22 A42.

4.

Bright finish - clear anodized: AA M21 C31 A41.
- C.

Aluminum sheet and plate:

1.

Type 5052-H-32 alloy aluminum, thickness as indicated on drawings.
- D.

Stainless steel

1.

Type 302 or 304, to meet ASTM A167.

2.

Type 316, to meet ASTM A240

3.

Exposed surfaces shall be No. 4 finish, unless otherwise indicated.

4.

Unexposed surfaces shall be mill finish.
- E.

Stainless steel tubing

1.

Type 300 Series, to meet ASTM A269 or ASTM A312.

2.

Exposed surfaces shall be No. 4 finish unless otherwise indicated.

3.

Unexposed surfaces shall be mill finish.
- F.

Metal thickness: Provide metal thickness indicated on drawings. When metal thickness is not indicated on drawings, provide thickness most appropriate for the fabrication condition to prevent warping or distortion.

1.

For sheet steel not indicated, use not less than 20 gauge.

2.

For non-ferrous metal not indicated, use not less than 0.063” thickness.
- G.

Corrosion Protection: Coat concealed surfaces which will be in contact with concrete, stone, masonry, wood, or dissimilar metals, in exterior work, with a heavy or double coat of bituminous paint.

2.6 PLASTIC MATERIALS

- A.

Acrylic: Provide cast (not extruded) methylmethacrylate Monomer plastic sheet with a minimum flexural strength of 16,000 psi, when tested in accordance with ATSM D790, minimum allowable continuous service temperature of 180 degrees
- F.

KIKU OBATA

Kiku Obata & Company
6161 Delmar Blvd., Suite 200
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Client:



Aspirus St. Lukes
Duluth, MN

Authorized Use:

Design Intent - **Draft**

Issue Date: July 29, 2025

Revisions:			
No.	Date	Description	Drawn By
1	-		
2	-		
3	-		
4	-		
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Aspirus St. Lukes
Proposed Campus Signage Plan
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Project Number: 2024016.01

Specifications
Section 10 40 00

Drawn by: JR
Checked by: DL

1.

Provide solid sheet, laminated sheet, or cast acrylic in size, thickness, clarity, opacity, texture, and color required for work or specified in Contract Documents.
2.

Edges shall be free of saw marks, chips, and to be square to face of material. All edges are to be smooth unless otherwise specified.
3.

Transparent Sheet: Where indicated as “Clear” provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the the displayed image.
4.

White Translucent Sheet: Where indicated as “White” provide white translucent sheet of density required to provide uniform brightness and minimum halation.
5.

Colored Translucent Sheet: Where indicated as “Colored”, provide white translucent sheet of density required to provide uniform brightness and minimum halation.
6.

Frosted Acrylic : Where indicated as “Frosted” provide clear acrylic sheet with matte finish: Rohm & Haas # P-95 or approved equal.
7.

Cement for acrylic plastic: No. 4 cement by Industrial Polychemical Co.
- B.

Suppliers:
1.

Acrylite: Polyvantis Sanford LLC
1796 Main Street, Sanford, ME 04073
1-800-202-7467
- C.

Polycarbonate: Tuffak by Plaskolite, or Lexan by SABIC.
1.

Provide with scratch and ultra-violet resistant coating.
2.

Transparent Sheet: Where indicated as “Clear” provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the the displayed image.
3.

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4.

Transparent Sheet: Where indicated as “Clear” provide colorless sheet with light transmittance of 92%, when tested in accordance with ASTM D 1003, in a non-glare finish unless otherwise indicated. The non-glare finish should not compromise the clarity or resolution of the the displayed image.

2.7

ADHESIVE VINYL FILM

- A.

Computer-generated vinyl graphics:
1.

Non-reflective: Pressure-sensitive adhesive type, .0035 inch thickness minimum, .006 inch thickness maximum, 3M “Scotchcal” series OR APPROVED EQUAL.
2.

Reflective: Pressure sensitive adhesive type, .0065 inch minimum, .0075 inch maximum, 3M “Scotchlite” engineer-grade series OR APPROVED EQUAL.
- B.

Manufacturer:
1.

3M Commercial Graphics Division,
800-328-3908

2.

Avery Dennison
800-282-8379
- C.

All inks, paints dyes, and other materials used in the process will be compatible and guaranteed against discolorations, deterioration or delamination.

2.8

ADHESIVES

- A.

Very High Bond (VHB) Tape: Acrylic foam tape, in specific foam, adhesive, color, and release liner type appropriate to the materials, conditions, and substrates to be adhered. Provide products as manufactured by 3M Company, VHB Tape Specialty Tapes, or approved equal. Prepare surfaces and apply VHB tape per manufacturer’s recommendations and within recommended temperature ranges.
- B.

Liquid adhesive mounting: Use liquid adhesive recommended by manufacturer to attach pin mounted or flush mounted signs to porous or irregular surfaces.

2.9

CONCRETE

- A.

Cast-in-place concrete shall meet all applicable building code and jurisdictional requirements and applicable requirements of Section 03300. Concrete mix and reinforcement shall be designed and specified by the Sign Contractor.
- B.

Concrete footings are to be poured in place, from thoroughly mixed and agitated concrete in order prevent unreasonable voids. All exposed faces of concrete shall receive a finish to match existing, adjacent surfaces unless otherwise noted or described in the drawings.
- C.

All brackets, anchor bolts, connectors, base plates or other attachment points for signs shall be set and allowed to fully cure in place before any signage is attached or mounted in any way.

2.10

HARDWARE

- A.

All hardware at, on and within signs to be stainless steel unless noted otherwise.
- B.

Every piece and type of hardware used on the entire project, including all sign mounting hardware, is to be thoroughly documented. Information is to include hardware type, dimension, thread sizes, material, strength rating and identification number. ID number example is McMaster Carr catalogue number, or equal.

PART 3 - EXECUTION

3.1

INSPECTION AND OBSERVATION

- A.

Designer reserves the right to observe work or portions of the work in the Sign Contractor’s fabrication shop before it is shipped to the job site for installation.
- B.

Sign Contractor shall inspect installation locations for conditions which will adversely affect execution, permanence and quality of work, and shall not proceed with installation until unsatisfactory conditions have been corrected.

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- C. Approval by Designer or Owner of portions of the work, shop drawings, or submittals, prior to the time of final acceptance shall not preclude rejection of delivered items which do not satisfy these specifications.
- 3.2 PREPARATION

A. Protection:

1. Protect all finished building surfaces, including jambs and soffits of all openings used as passage-ways through which materials and equipment are handled.

2. Provide protection for all finished flooring surfaces in traffic areas before allowing materials and equipment to be moved over those finished surfaces.

B. Surface Preparation:

1. Maintain all finished surfaces clean, un-marred and suitably protected until accepted by the Owner
- 3.3 INSTALLATION

A. Verify the exact location with the Designer for all signs, which are not exactly dimensioned on the Contract Documents. Sign location plans represent general sign location only. The indicator representing the sign is not to scale, nor does it show exact placement. Field verify all sign locations.

B. Prior to installation, Sign Contractor must examine areas, surfaces and conditions under which work is to be installed. Sign Contractor shall inspect installation locations for conditions which will adversely affect execution, permanence and quality of work and shall not proceed with installation until unsatisfactory conditions have been corrected. Notify the Designer in writing of these conditions.

C. Except as may be indicated otherwise on the Contract Documents, install prefabricated work plumb, level, square, and true to line.

D. Provide anchors and fasteners required to secure work in place. All anchors/ fasteners shall be appropriate for the anchorage condition and be of non-corrosive type. Any signs that require cutting of building surface materials, shall be coordinated with the Owner and General Contractor. The Sign Contractor shall be responsible for repairing and patching the affected areas.

E. Sign Contractor is responsible for coordination of work with other trades as required.

F. Surfaces under adhesive-applied signs shall be smooth, clean, and free of dust, oil, fingerprints, or other foreign matter. All adhesives required shall be used in accordance with the manufacturer’s specifications. Signs shall be permanently installed and not removable unless indicated on the Contract Documents. No adhesives which will fade, discolor or delaminate as a result of ultra violet light or heat shall be used.

G. Final adjustment and cleaning:

1. Touch-up all scratched, marred, abraded, or otherwise damaged surface to match original finishes.

2. Clean-up work area after installation has been completed.
- 3.4 WORKMANSHIP

A. Tradeswork: It is intended that the workmanship be of the highest quality obtainable by the respective trades and crafts experienced in the fabrication of signs, and that all work be done by journeymen, or by tradesmen under the direct supervision of journeymen.

B. Artisans: It is intended that work of an artistic or specialized nature such as gilding, artistic carving and engraving, artistic painting, when included as part of Contract, be executed by artisans with experience, credentials, and reputation to satisfy the demands of the Designer.
- 3.5 SITE CLEANUP

A. Clean-up during construction:

1. Execute cleaning to ensure excavation sites, premises, adjacent and public properties are maintained free from accumulation of materials and construction debris.

B. Final Clean-up:

1. All interior and exterior sign surfaces, including light boxes, translucent materials, and internally illuminated signs, shall be cleaned and free of dirt, dust, oil, fingerprints or other foreign matter.

2. Repair, replace, and clean-up surrounding landscaping adjacent to excavated areas, restoring landscaping to original condition or better.

3. All evidence of installation work or damages incurred on other surfaces shall be cleaned or repaired prior to completion of work. Protect all work from damage until acceptance by the Owner.

4. Remove protective materials and dispose of properly.

5. Broom clean paved or concrete surfaces. Rake clean other surfaces of excavation site.
- END OF SECTION 10 40 00
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