

Montclair State University

Wayfinding and Signage Manual

Version 2.0

PROJECT NOTES

This manual addresses Montclair State University sign standards

Document prepared by Exit Design

VERSION 2.0

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PART 1, SECTION A

ABOUT THE SYSTEM

Introduction

HOW TO USE THIS MANUAL

WELCOME TO THE MONTCLAIR STATE UNIVERSITY WAYFINDING AND SIGNAGE MANUAL.

The manual has been developed for the ongoing maintenance of the system that includes comprehensive information for the Exterior Signage program. The Wayfinding and Signage Manual consists of a vocabulary of pre-designed sign configurations that will effectively meet a broad range of sign function requirements. This manual documents the signage program and describes the entire sign family as a sign system, including descriptions of sign types and their functions.

The Wayfinding and Signage Manual facilitates the implementation of signs in new facilities, renovation projects and as a catalog to order replacements for damaged or outdated parts or signs where the program has already been installed.

This document is intended to provide project managers and other interested parties a detailed description of the primary operating characteristics of the Exterior Sign program at Montclair State University.

The manual is divided into three parts:

PART 1 ABOUT THE SYSTEM

This section provides an overview of objectives, policies and strategies that were developed and approved by the Montclair State University Signage Steering Committee. It also outlines the levels of implementation of the signage standards and the tools and processes for maintaining the Signage System.

PART 2 EXTERIOR SIGNS

Each exterior sign is shown with a drawing that specifies typography, color, materials and fabrication methods.

PART 3 DETAILS

Detailing specifications for fabrication and installation of the signs and Graphic Standards for typography, colors and materials, and symbols.

WAYFINDING SIGN PROGRAM POLICY

The Wayfinding and Signage Manual provides specific guidelines and standards to the Montclair State University community for the implementation of the Montclair State University sign system across all University campuses, buildings and environments.

The Wayfinding and Signage Manual has been developed by the Office of University Planning and Development with extensive advice and consultation from faculty, staff and students. The Board of Governors of the university will formally approve the Wayfinding and Signage Manual.

The power of a strong visual identity and consistent wayfinding system can only be realized through consistent application over time. It is the University's policy that the official wayfinding signage, as described in these pages, is the only sanctioned wayfinding and signage system across the University. No other signage may be used or created to represent the University as a whole or any part thereof.

WAYFINDING AT MONTCLAIR STATE UNIVERSITY

Wayfinding is a process of spatial orientation and decision-making along an individual's path of travel to a destination. There are points along this journey when orientation is required to make a decision about which direction to proceed. Exterior signs provide the information necessary to guide students, visitors and staff to destinations, identify areas and provide safety information. A successful sign system assists people in finding their way, enhances the campus environment and complies with the Americans with Disabilities Act (ADA) and local regulations.

In 2015, Montclair State University assessed the manner in which it moves people between, around and through its campuses to develop a new wayfinding strategy. Montclair State University engaged Exit Design, a Philadelphia-based design firm, to evaluate its campus wayfinding, access and usability. Site observations, tours, fieldwork and work sessions with University stakeholders informed the design direction of the sign program.

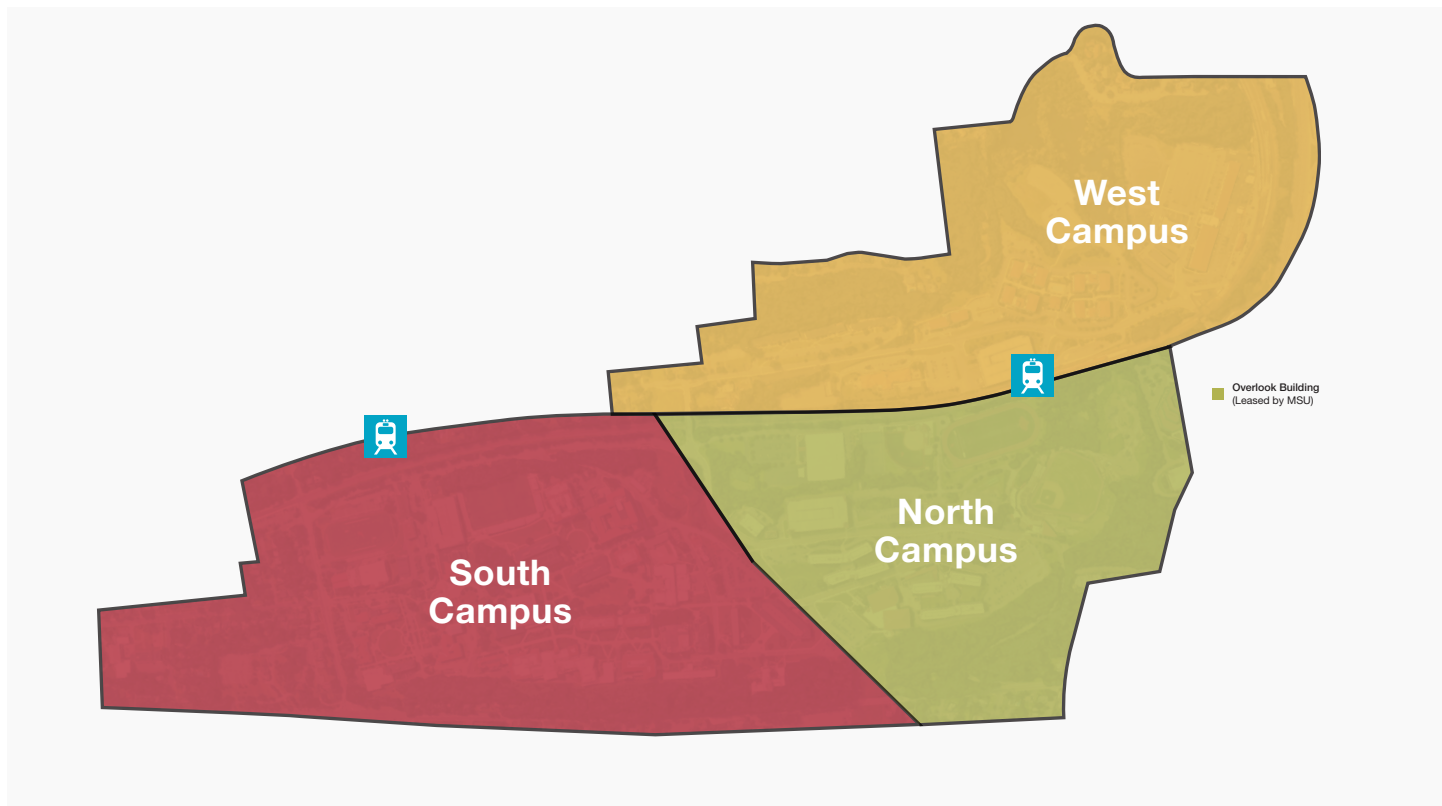
The University's visual identity system and image was translated to a new, aesthetically distinct, affordable and easily maintainable design package. New exterior signage design standards were developed. The new standards outline guidelines for signage locations, keeping in mind that campus beautification efforts include minimizing the quantity of signage in the campus landscape.

The new sign system promotes the Montclair State University commitment to standardization, yet provides the flexibility to respond to the variety of campus conditions.

For the ease of wayfinding and direction-giving, the Montclair State University campus has been divided into three zones as shown in the map below. The nomenclature for the zones aims to align with the location of each zone. Additionally, each zone has been assigned an accent color to visually reinforce the identity of each place on campus.



CAMPUS ZONE MAP



PROGRAMMING GUIDELINES

B1

To be used for on-campus buildings. Signs should be positioned at building entrance. Colleges and Schools should not be listed on these signs unless it is the official name of the building. Donor name should be not written in full (use only last name).

B2

To be used for off-campus buildings and along major roadways. Donor name should not be written in full (use only last name).

B2 and B3

Full donor name (first and last name) to be used.

F1

To be programmed along roadways. Can also be programmed along major pedestrian spines to indicate the change of zones.

L1

Use this directional only to direct to parking areas.

L2

Locate at parking lot entrance.

L3

Locate within parking lots on existing light poles.

P2

Each sign can accommodate 13 listings (including arrows). Listings should only include destinations found within the zone (exceptions can be made for pedestrian directionals programmed directly on zone boundaries). Destinations directly adjacent to the sign should be prioritized. Other close Top Public Destinations should also be listed.

Top Public Destinations

Floyd Hall	MSU Soccer Park
Yogi Berra Museum & Stadium	Panzer Gymnasium
CarParc Diem Garage	Red Hawk Garage
Softball Stadium	SCM Presentation Hall
Student Recreation Center	Sprague Field
Student Services Center	Undergraduate Admissions
Conference Center	SCM Complex
Kasser Theater	Segal Art Gallery
Memorial Auditorium	Sprague Library
Leshowitz Recital Hall	University Police

V1 and V2

Vehicular directionals should only direct to Campuses, Visitor Parking, and Exits. If there is additional room and appropriately located, signs can also direct to “Berra Stadium” and “Ice Arena”

HOW TO ORDER A SIGN AT MONTCLAIR STATE UNIVERSITY

Ordering a sign at Montclair State University can be quite easy. Follow these steps and if you need support along the way, contact

Michael J. Zanko,
Associate Vice President Capital Planning & Project Management
zankom@mail.montclair.edu

Ellen Gallagher-Kenny
Assistant Project Manager, Capital Planning & Project Management
gallagher@montclair.edu

1. KNOW WHAT YOU NEED

Determine what sign type is needed and the desired location for the sign.

2. DETERMINE MESSAGE.

Write the message for the sign. Is there another sign with similar message as a sample or do you need to create a new message from scratch?

3. SELECT APPROPRIATE SIGN TYPE.

Find the specific type of sign you need to order.

4. LOCATE RELEVANT DRAWINGS.

Use this manual to find drawings for the sign type.

5. DETERMINE IF THERE ARE ANY SPECIAL CONDITIONS.

Visit/Review the space where the sign will be installed. Does the sign need special placement or is it in a unique location?

6. ENGAGE A FABRICATOR.

Send the relevant manual drawings, copylist, and location plan in order for the fabricator to produce the sign(s) needed.

7. REVIEW INSTALLATION FOR QUALITY AND ADHERENCE TO STANDARDS. Signs should meet all standards outlined in this document.

PART 1, SECTION B

ABOUT THE SYSTEM

Implementation

DESIGN OVERVIEW

INTRODUCTION

Implementing a sign program— whether reordering existing signs or extending the sign program— takes an interdisciplinary, phased approach that considers and respects time and budget. The sign standard program and manual should be used to guide strategies, sign locations, messaging, fabrication details and installation methods.

LEVELS OF IMPLEMENTATION

Exterior signage is often required in a variety of circumstances at varying levels.

NEW CONSTRUCTION OR CAMPUS EXPANSION: Campus is reorganized, expanded or an area on campus has changed.		Estimated Lead-time for Fabrication/Installation 12–16 Weeks
PROGRAMMING	FABRICATION	
Internal/External Follow strategies outlined in standards manual.	External Hire approved fabricator with knowledge of standards.	
New signs may need to be programmed and existing signs may have parts that need to be replaced.		
If custom design is required, an outside designer should be hired to create a solution using the standards as a baseline.		
SYSTEM UPDATE: New building is built or building function / occupant changes.		Estimated Lead-time for Fabrication/Installation 8–12 Weeks
PROGRAMMING	FABRICATION	
Internal/External Follow strategies outlined in standards manual.	Internal/External Internal if it affects fewer than 8 signs.	
New signs may need to be programmed and existing signs may have parts that need to be replaced.	If new signs require new footers, engage outside fabricator.	
If custom design is required, an outside designer should be hired to create a solution using the standards as a baseline.		
MAINTENANCE RE-ORDERING: Building function / occupant changes.		Estimated Lead-time for Fabrication/Installation 6–8 Weeks
PROGRAMMING	FABRICATION	
Internal Follow strategies outlined in standards manual.	Internal/External Internal if no new signs are required or if attic stock needs to be replaced.	
New signs may need to be programmed and existing signs may have parts that need to be replaced.		
Orders go through wayfinding champion/facilities.		

DESIGN OVERVIEW CONTINUED

PHASED IMPLEMENTATION

Since many sign locations rely on another location or sign to create a navigational pathway or order of information, implementation phases may be divided by campus, sign purpose or campus section.

Signs along a set journey must be implemented together so that users do not experience any gaps in their wayfinding journey. While it may seem that starting on the outer edge of campus makes sense, it may be most beneficial to start with interior campus arrivals so, as the system is phased, the path is completed.

PROGRAM MANAGEMENT

The success of a wayfinding program relies on the team to plan, design, implement and manage the wayfinding signage program. An experienced wayfinding champion will be responsible for handling all communications between the Montclair State University team and consultants or stakeholders.

The University Wayfinding Champion will coordinate a series of specific procedures that have been designed and implemented to ensure the successful completion of each sign project. The University Wayfinding Champion, design team (when appropriate), stakeholders (such as architects or interior designers) and the fabricators and installers should meet throughout the project to ensure the project meets the overall goals, stays consistent with the University-approved standards, and is on time and on budget.

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PART 1, SECTION C

ABOUT THE SYSTEM

Maintenance

MAINTAINING THE SYSTEM

Montclair State University has the tools to maintain its sign program. This includes equipment and staff capacity to consistently produce quality signs. If there are needs that fall outside Montclair State University’ capabilities, then it is recommended to seek outside support through a bid process in order to properly maintain the program standard.

HOW TO CARE FOR THE SYSTEM

A wayfinding system is made up of two parts— the assets and tools of the system and the methodology and logic of direction-giving. Both of these parts must be maintained and cared for over the lifespan of the system. Caring for the system includes, but may not be limited to, the following strategies in the chart below:

REGULAR MAINTENANCE

Signs will need regular maintenance and cleaning. Exterior signage should be cleaned annually to prolong the life of the signs. Exterior signs should be washed to remove dirt and grime.

A strategy for quick cleaning of vandalism should be in place so these events are dealt with in a timely manner throughout the year. Poles and sign faces may get graffiti or sticker damage in high-traffic areas. These pieces can be carefully cleaned with soap and water, or Goo Gone for stickers and a mild paint thinner for graffiti. Professional or highly-trained staff should complete this cleaning to ensure that additional damage is not incurred.

MAINTENANCE MATRIX FOR PERMANENT SIGNS			
	0-4 YEARS	5-9 YEARS	9+ YEARS
DESIGN AND PLANNING	Extensive design and planning program continues even after sign system in place.	Moderate amount of design and planning.	Re-evaluate program to determine effectiveness and adjust to match campus growth.
SIGN SYSTEM FLEXIBILITY	Develop a kit of parts for maximum changeability to accommodate phased implementation and future growth of institution.	Grow and adapt system using kit of parts.	Grow and adapt system using kit of parts. Add new parts as necessary to accommodate growth.
CLEANING	Annual cleaning to maintain appearance and trust of system.	Annual cleaning to maintain appearance and trust of system.	Annual cleaning to maintain appearance and trust of system.
REPLACEMENT	Phased replacement schedule based upon roll out implementation plan.	Annual replacement based upon wear and tear and/or campus growth.	Annual replacement based upon wear and tear and/or campus growth.
MANAGEMENT	Day-to-Day management during initial roll out of standard.	Semi/Bi-Annual ongoing management or as new facilities come online.	Semi/Bi-Annual ongoing management or as new facilities come online.

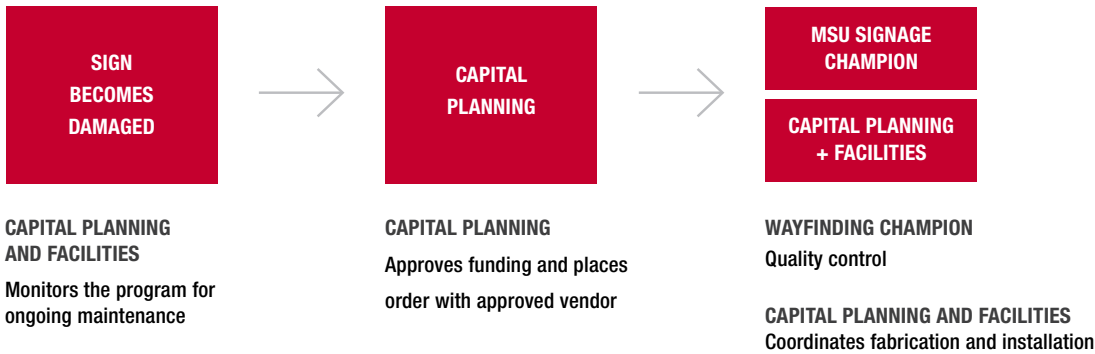
QUESTIONS?

Please contact

Michael J. Zanko, zankom@mail.montclair.edu

Ellen Gallagher-Kenny, gallaghere@montclair.edu

MAINTENANCE PROCESS FOR REPAIR OR REPLACEMENT OF EXISTING SIGNS



MAINTENANCE PROCESS FOR ADDITIONS, REMOVALS OR ALTERATIONS TO THE SYSTEM
New building, new routing, change of name



AUDIT, CONSOLIDATE AND PURGE

An audit of the existing signage and removal of what is inaccurate, unnecessary or redundant is key to maintaining a well-organized and easy to understand system. This can be done in tandem with the installation of new programs or at regular intervals throughout the year. This should be completed at least once per year, if not more frequently. Facilities staff must be diligent in removing paper signage put up by staff or students that are outside of the wayfinding system.

WHEN TO UPDATE

The Montclair State University signage standards have been designed for longevity and flexibility. Typically, signage systems of this scale have a lifespan of 10 to 15 years before the design standards must be reviewed to meet the brand requirements of the University. In addition, new codes and regulatory requirements may arise so that the signage may need to be refreshed to meet ever-changing regulations. When changes need to be made to the Standards, a qualified designer (in-house or external) should be brought into the team to revise and extend the program following the original design principles.

UNIVERSITY MANAGEMENT OF THE SYSTEM

Montclair State University Capital Planning department will ensure that the program is maintained and implemented accurately. Facilities will clean, repair and coordinate fabrication of new signage when needed. A review process to approve signage requests to update and add to the system will ensure adherence to the standards.

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PART 2, SECTION A

EXTERIOR SIGNAGE

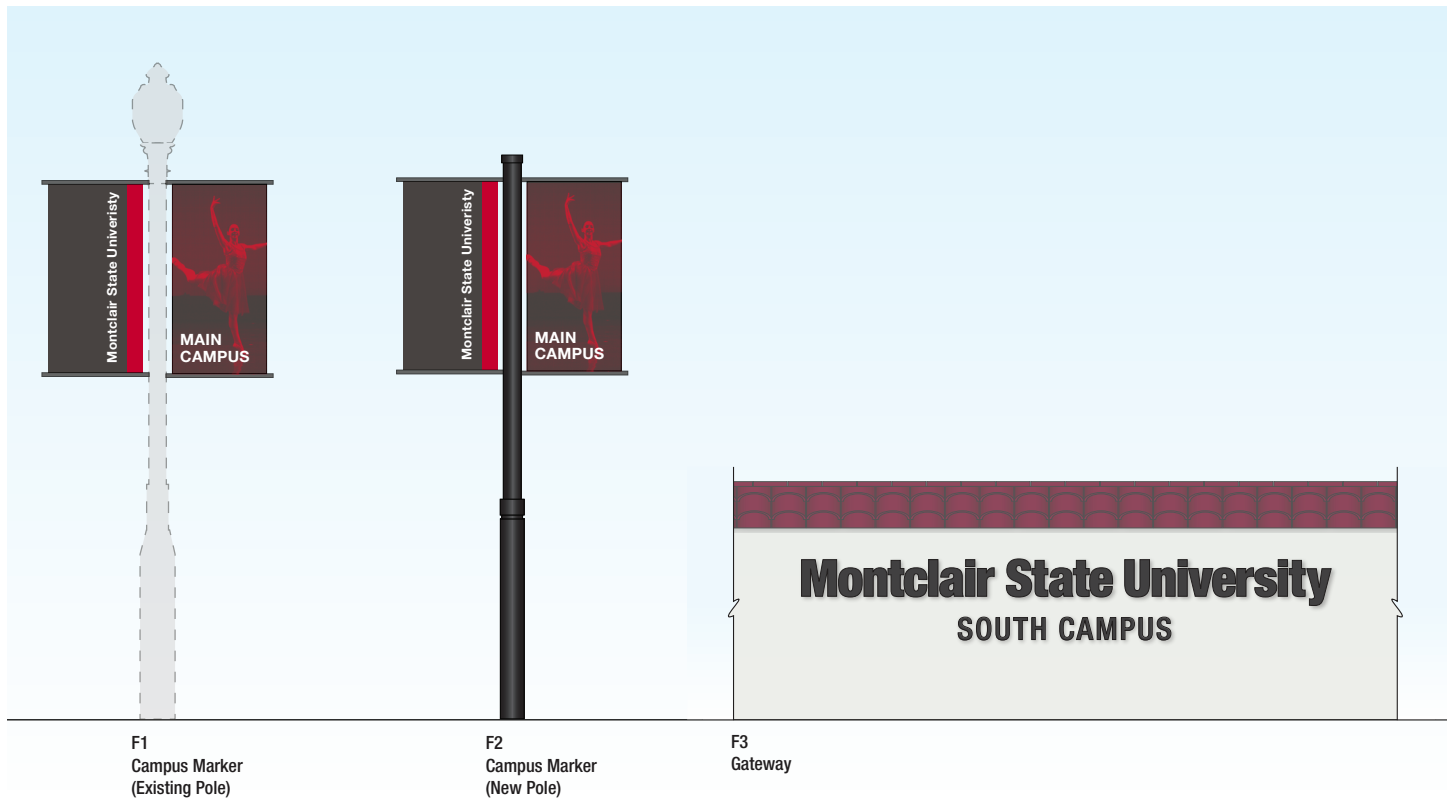
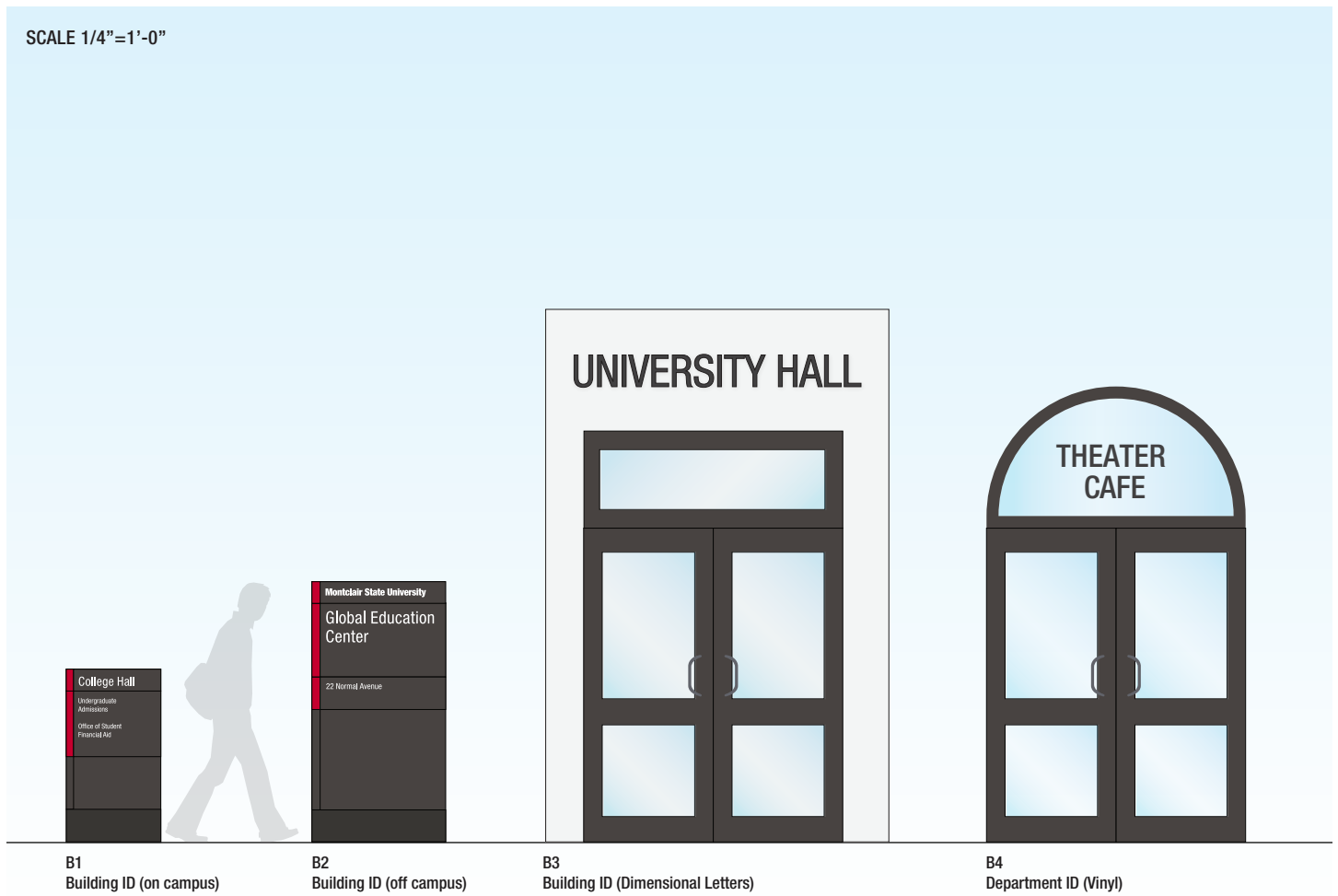
Design Overview

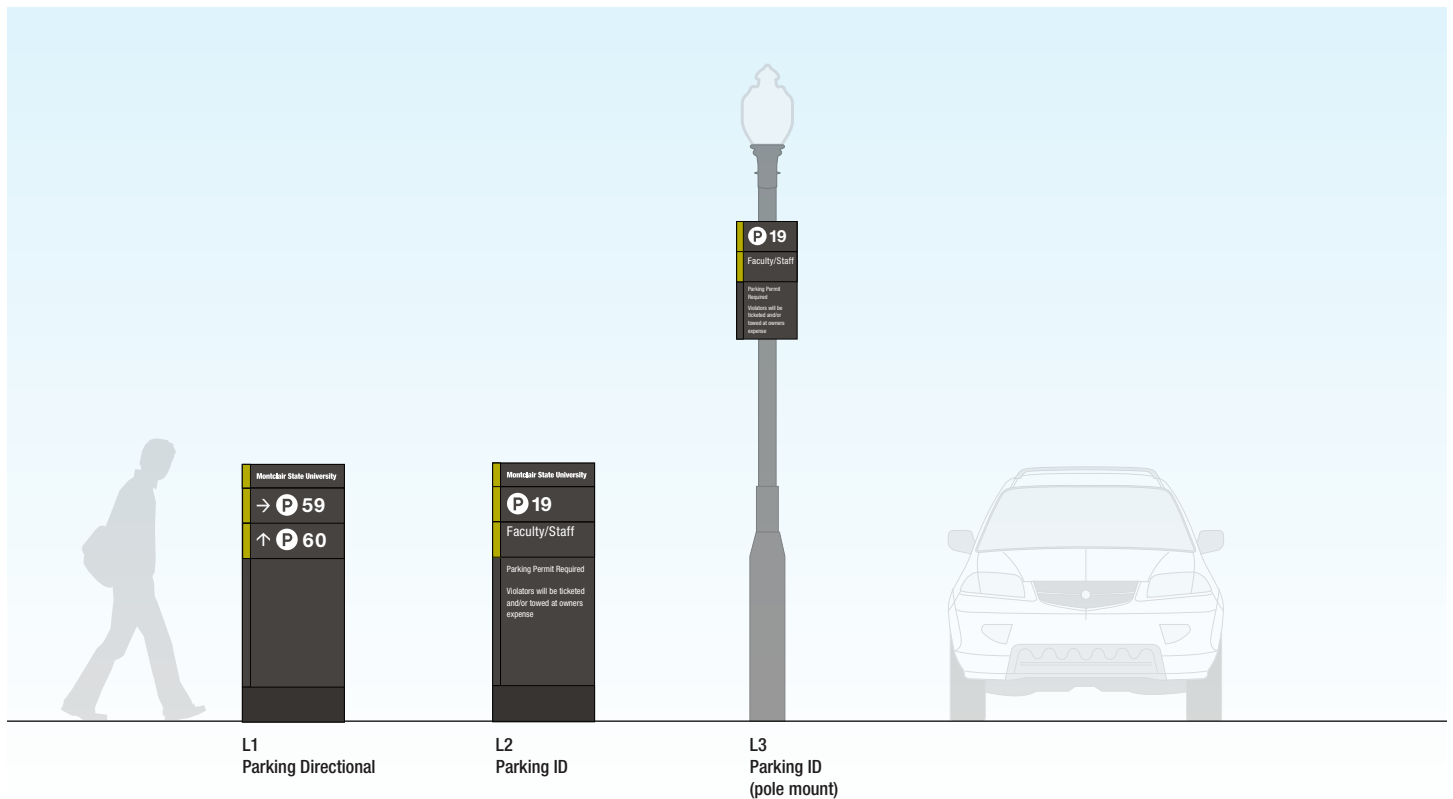
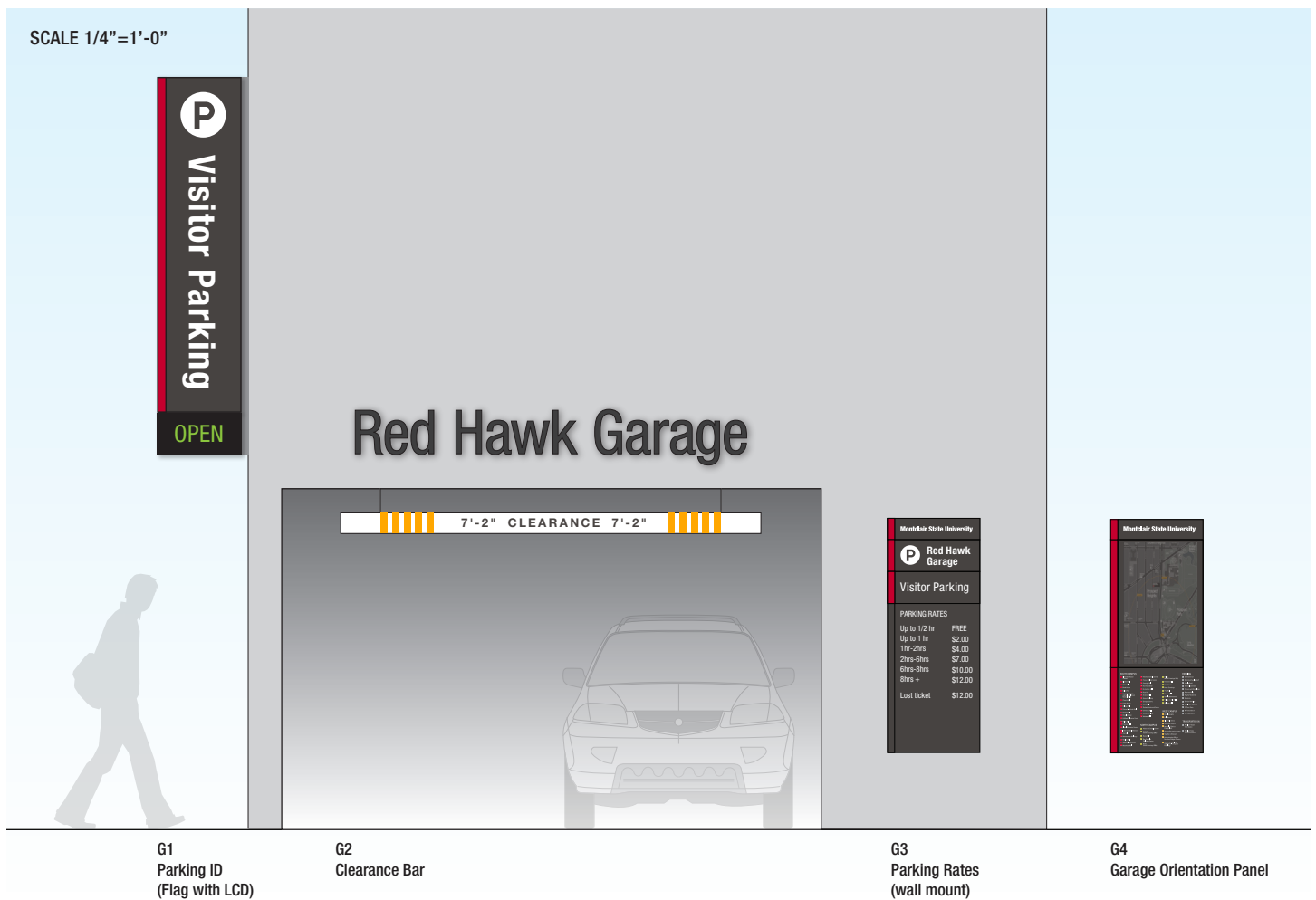
SIGN TYPE NUMBERING SYSTEM

The “Sign Type Numbering System” is designed to assist in specifying each sign type. The numbers help organize the signs by function, layout and product category. The system is organized as follows:

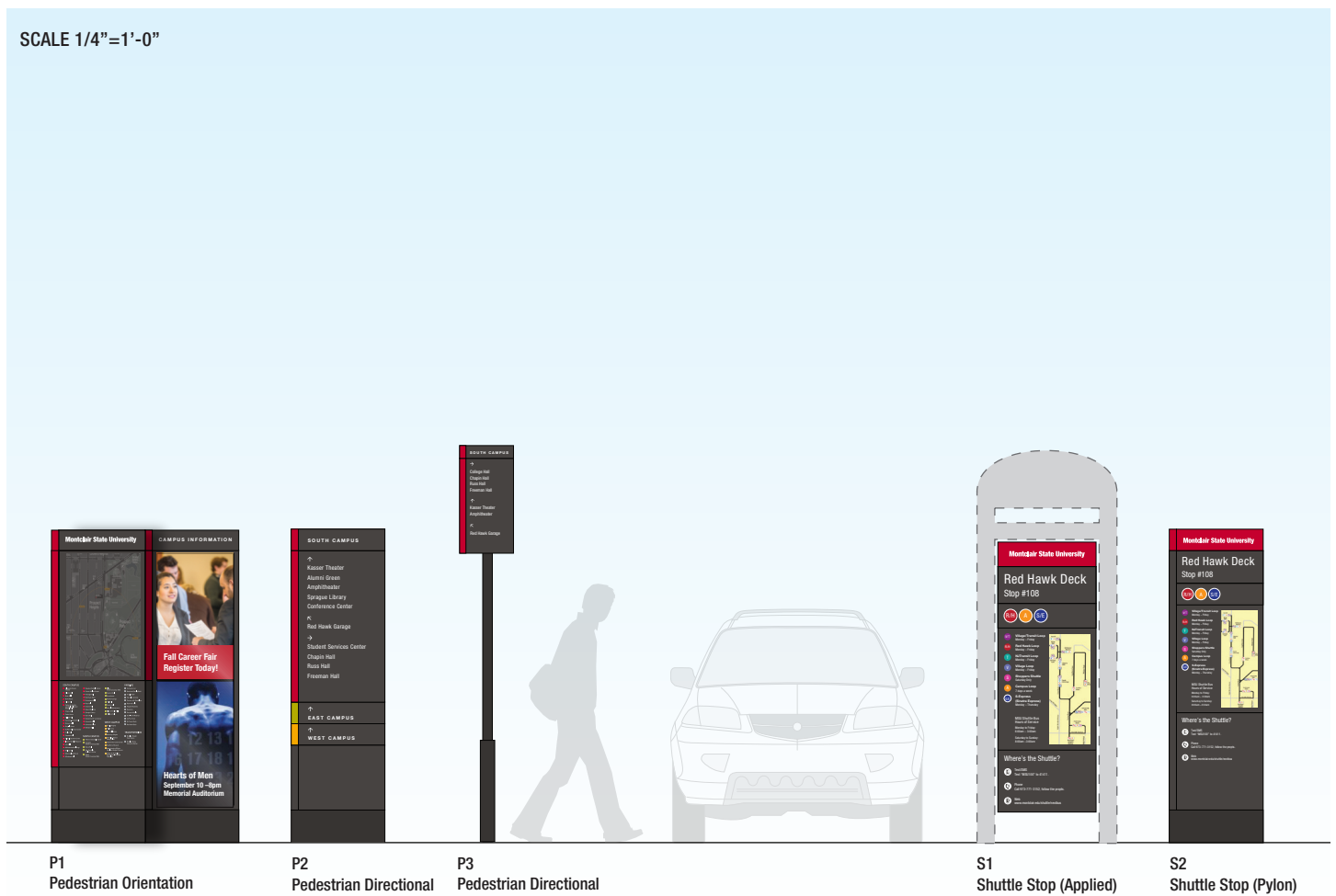
B1	Building Identification (On Campus)
B2	Building Identification (Off Campus)
B3	Building Identification (Dimensional Letters)
B4	Building Identification (Vinyl Letters)
F1	Campus Marker Banners (Existing Pole)
F2	Campus Marker Banners (New Pole)
F3	Campus Gateway Lettering
G1	Garage Identification (Flag With LED Display)
G2	Garage Clearance Bar
G3	Garage Parking Rates
G4	Garage Orientation Panel
L1	Parking Lot Directional
L2	Parking Lot Identification
L3	Parking Lot Identification (Pole Mounted)
P1	Pedestrian Orientation
P2	Pedestrian Directional
P3	Pedestrian Directional (Pole Mounted)
S1	Shuttle Stop (Applied)
S2	Shuttle Stop Pylon
V1	Vehicular Directional (Small)
V2	Vehicular Directional (Large)
X1	Temporary/Event (Vehicular)
X2	Temporary/Event (Pedestrian)

SCALE 1/4"=1'-0"





SCALE 1/4"=1'-0"



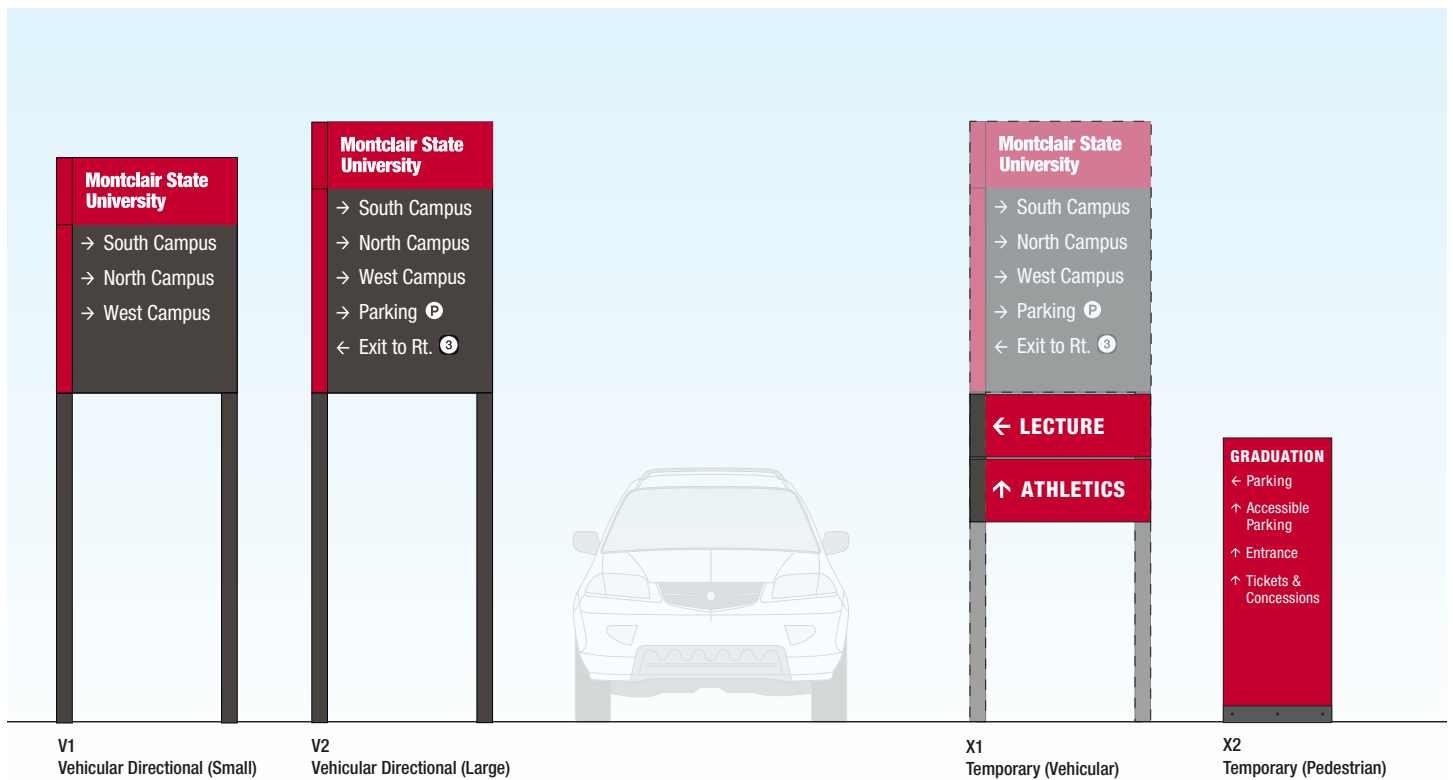
P1 Pedestrian Orientation

P2 Pedestrian Directional

P3 Pedestrian Directional

S1 Shuttle Stop (Applied)

S2 Shuttle Stop (Pylon)



V1 Vehicular Directional (Small)

V2 Vehicular Directional (Large)

X1 Temporary (Vehicular)

X2 Temporary (Pedestrian)

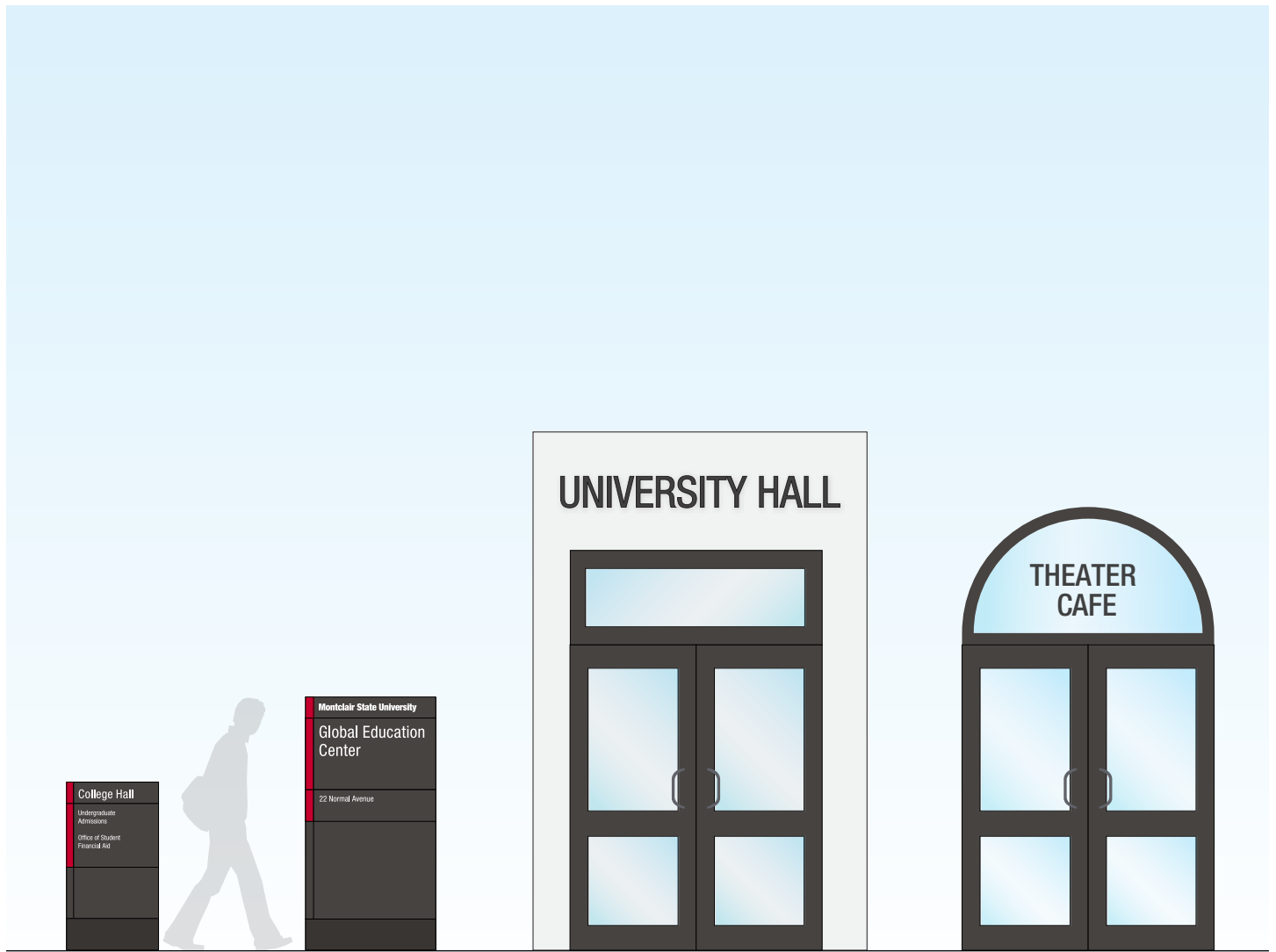
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PART 2, SECTION B

EXTERIOR SIGNAGE

Building Identification

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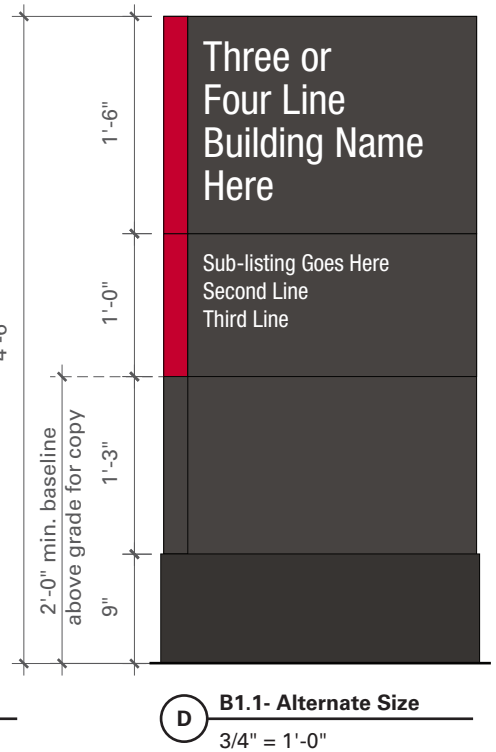
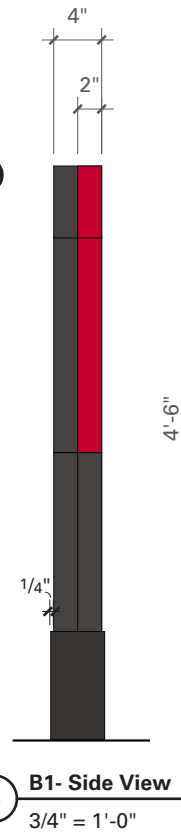
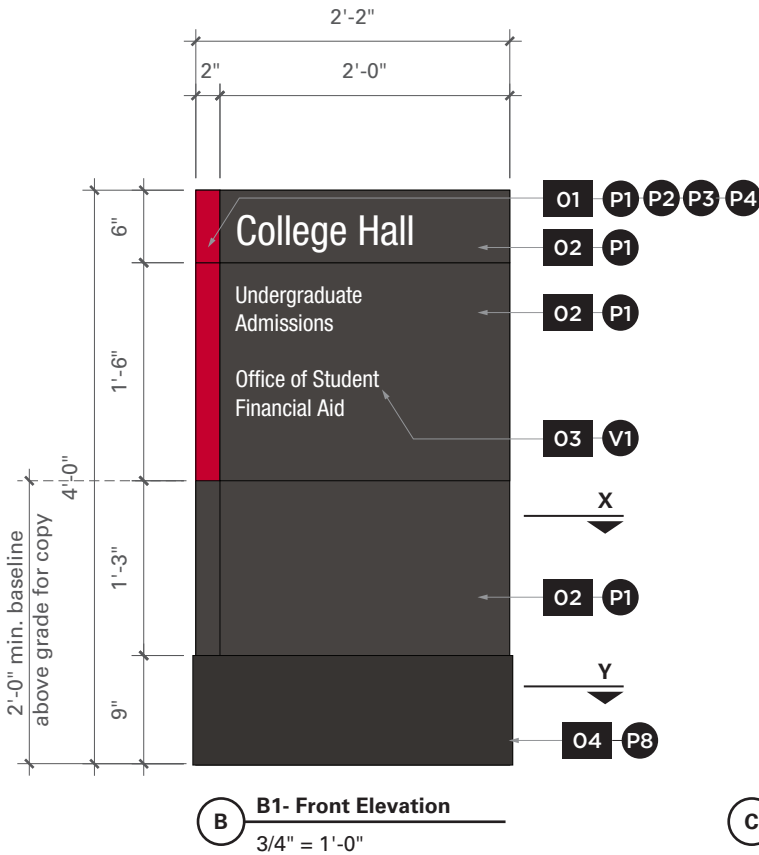
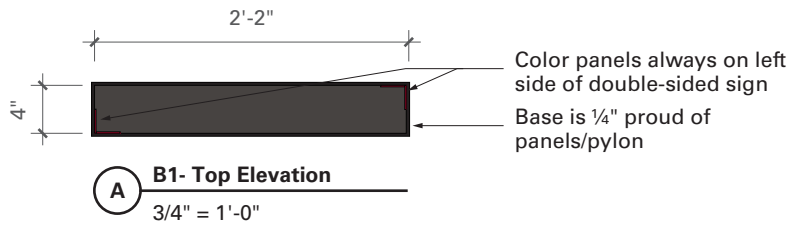
B1
Building ID (on campus)

B2
Building ID (off campus)

B3
Building ID (Dimensional Letters)

B4
Department ID (Vinyl)

SCALE 1/4"=1'-0"



Only use **B1.1** if Message Layout requires additional space. See page 2B.30 for approved Layouts.

B1 – BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

03 GRAPHICS

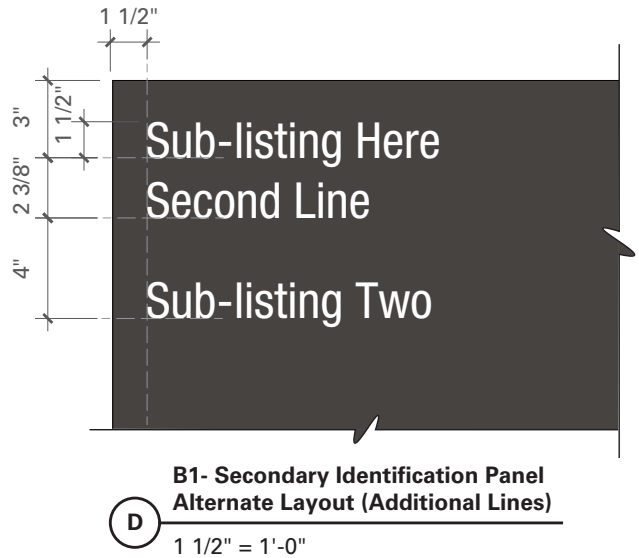
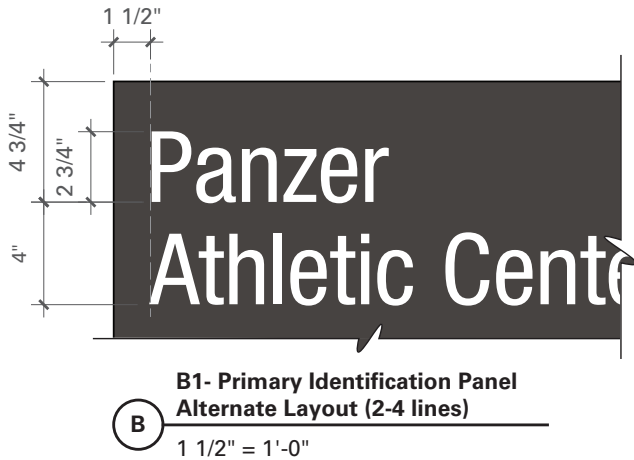
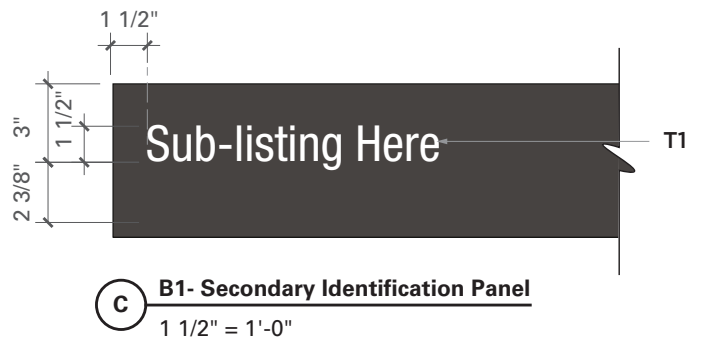
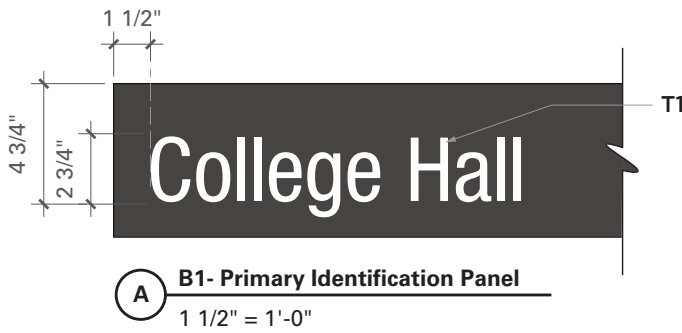
Surface applied vinyl graphics.

04 BASE

1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

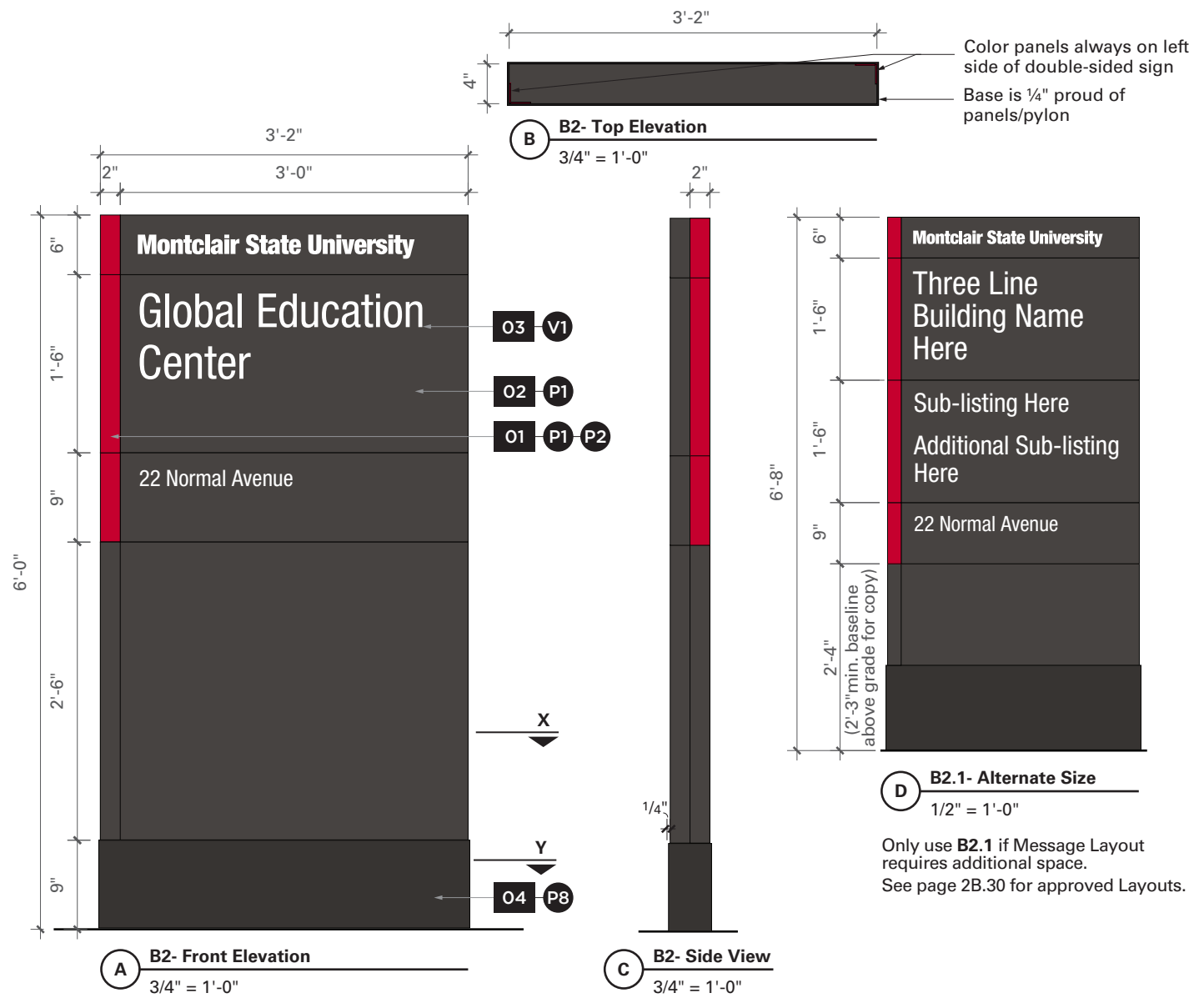
02 HEADER/ MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.



B1 – BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.



B2 – BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

03 GRAPHICS

Surface applied vinyl graphics.

04 BASE

1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

02 HEADER/ MESSAGE PANELS

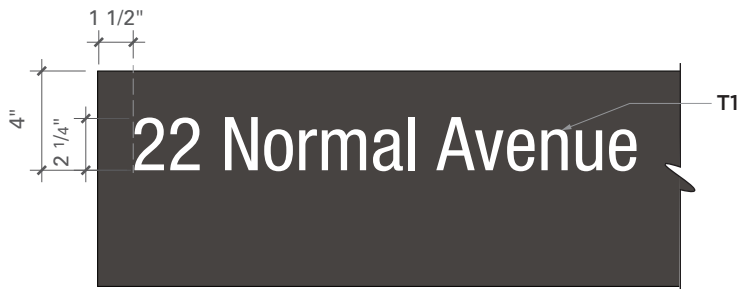
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.



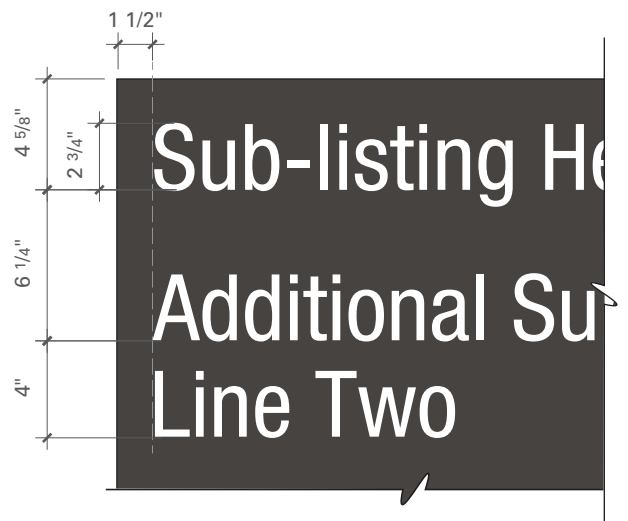
A B2- University Brand Panel
1 1/2" = 1'-0"



B B2- Primary Identification Panel
1 1/2" = 1'-0"



C B2- Address Panel
1 1/2" = 1'-0"



D B2- Secondary Identification Panel (Optional)
1 1/2" = 1'-0"

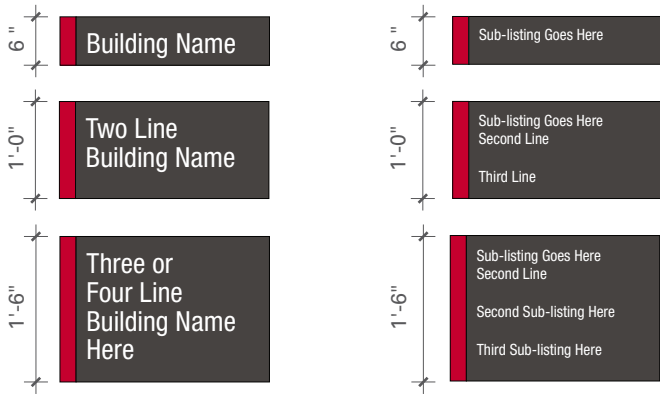
B2 - BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

05 MSU BRAND

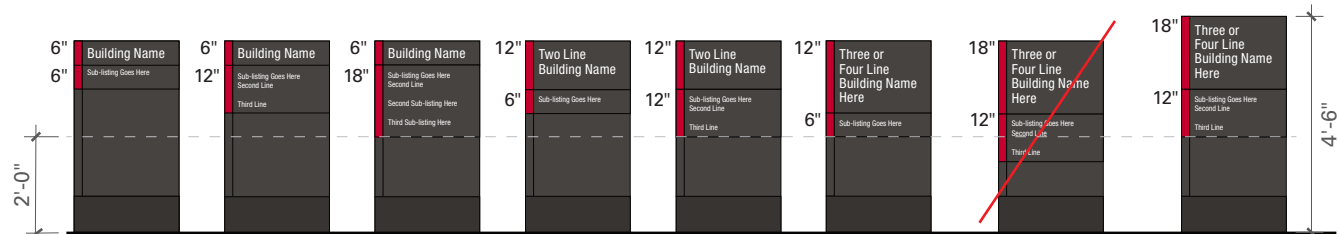
Surface applied vinyl graphics. Artwork to be provided by Designer.

*NOTE: Coordinate artwork with updated brand, TBD by Owner.



A B1- Primary Identification Panel Size Options
 $3/4" = 1'-0"$

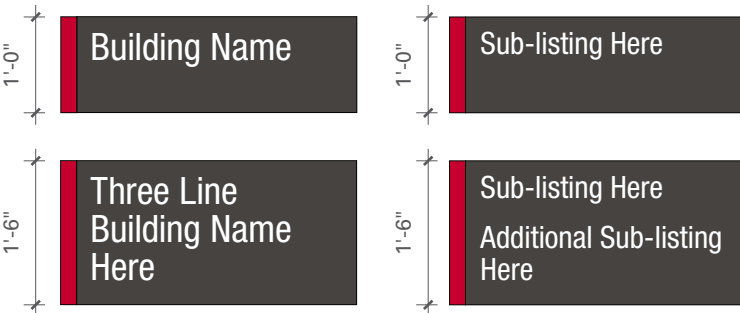
B B2- Secondary Identification Panel Size Options
 $3/4" = 1'-0"$



C B1-Panel Configuration Options
 $1/4" = 1'-0"$

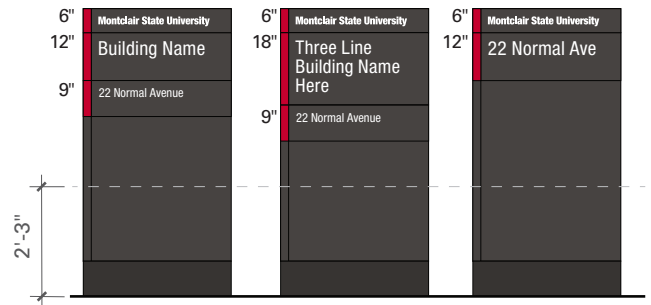
Do not use this configuration. No copy below 24" from grade.

B1.1-Alternate Size
 Only use if Message Layout requires additional space.



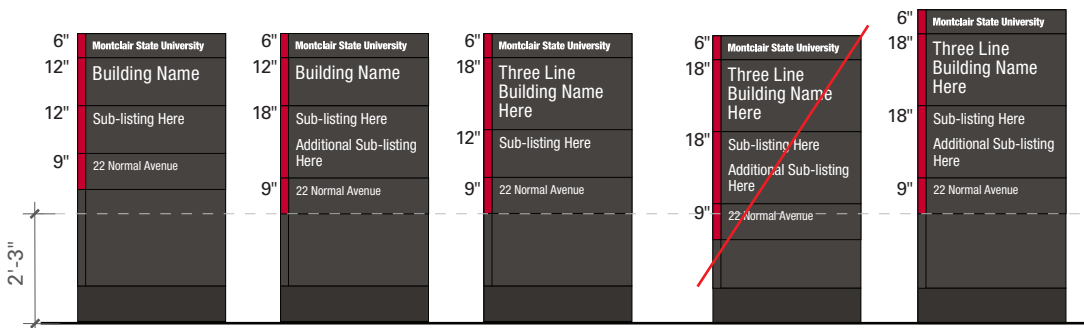
D B2- Primary Identification Panel Size Options
 $3/4" = 1'-0"$

E B2- Secondary Identification Panel Size Options
 $3/4" = 1'-0"$



F B2- Typical Panel Configurations
 $1/4" = 1'-0"$

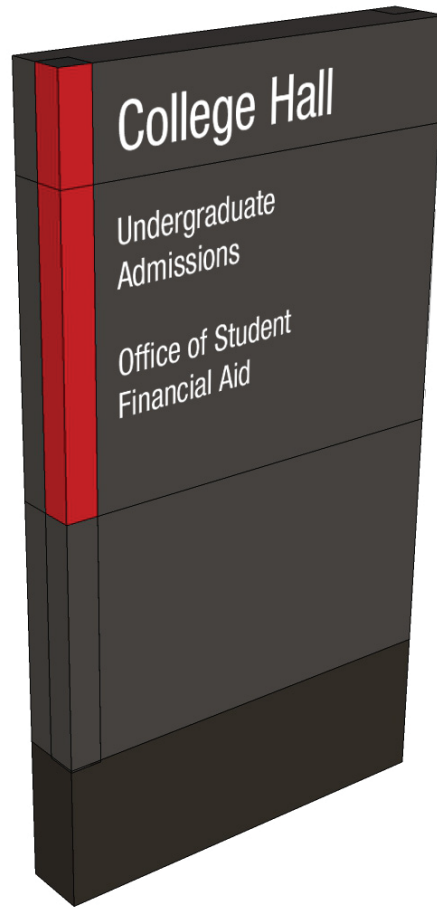
If only address is to be listed, use **Secondary ID** type size.



G B2- Alternative Panel Configurations
 $1/4" = 1'-0"$

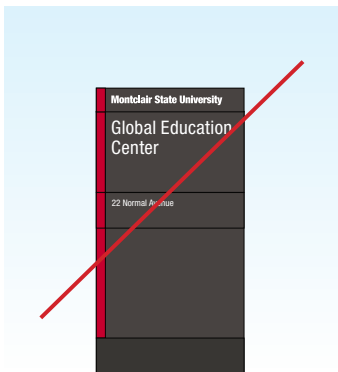
Do not use this configuration. No copy below 27" above Grade.

B2.1-Alternate Size
 Only use if Message Layout requires additional space.



A B1- 3D View (for reference only)
N.T.S.

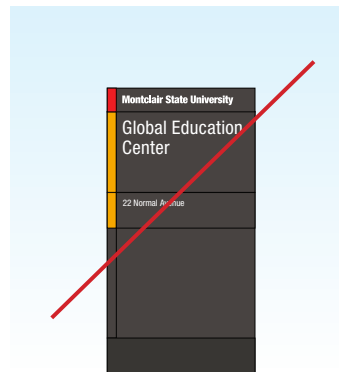
GRAPHIC DO'S & DON'TS



DO NOT extend Accent Color beyond panels with information.



DO NOT change Accent Color for B2 signs to any color besides Red.



DO NOT mix Accent Colors.

DO NOT use MSU Brand on B1. MSU Brand only appears on B2.

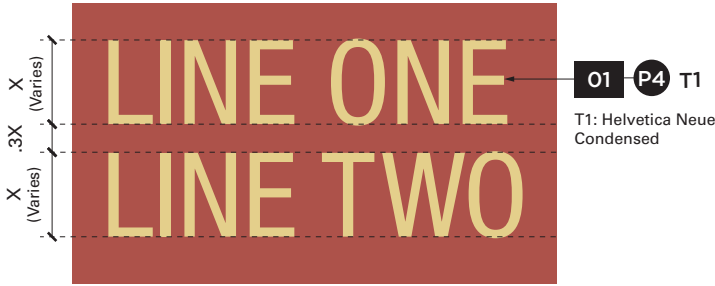
DO NOT show address on B1 signs.

DO NOT change Accent Colors for B2. All B2 signs will have red Accent.

B1 Accent Colors will change based on Zone Color.

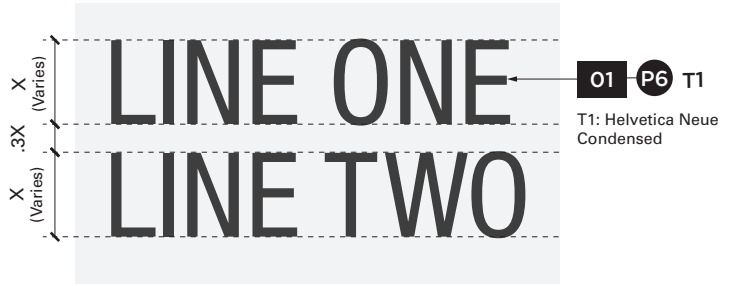
No copy lower than 24" and 27" above grade for B1 and B2, respectively. See Panel Configurations on previous page

B2 signs do not need to use Secondary Identification Panels.



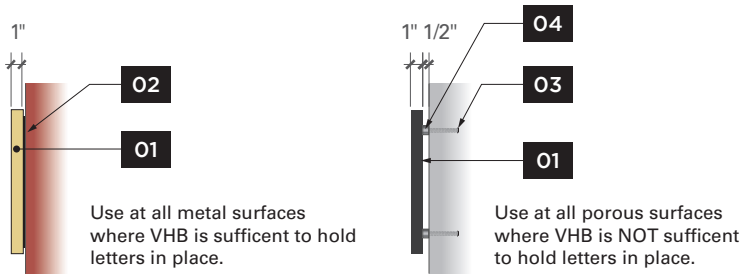
A B3- Elevation (Gold on Maroon Surface)

3/8" = 1'-0"
Use Viewing Distance Guidelines chart on page 2B.11 to determine appropriate letter height.



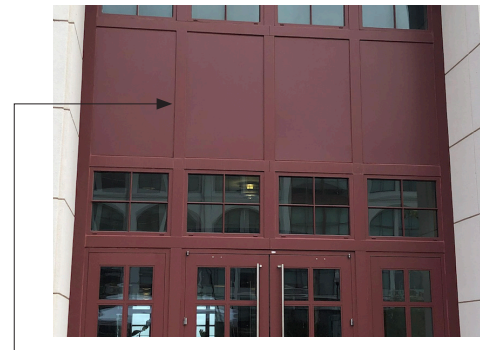
B B3- Elevation (Black on Light Surface)

3/8" = 1'-0"
Use Viewing Distance Guidelines chart on page 2B.11 to determine appropriate letter height.



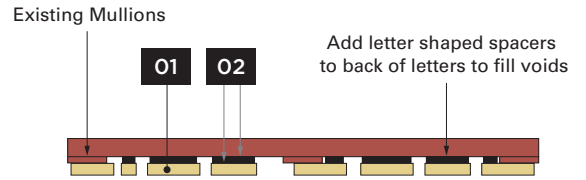
C B3- Side Views

3/4" = 1'-0"



E B4- Front Elevation

1 1/2" = 1'-0"
Used to identify areas or departments within a building.



D B3- Top View (Irregular Architectural Surface)

3/4" = 1'-0"

B3, B4 - BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 DIMENSIONAL LETTERS
1" thk. aluminum letter forms, to be laser cut and painted to match color as noted.

04 SPACER
1/2" aluminum spacer.

02 TAPE
1/16" thk. 3M Scotch VHB 4930

05 VINYL LETTERS
Second surface applied vinyl letters.

03 STUD MOUNT
Letters to be drilled and tapped to receive threaded studs. Drill wall and set with clear epoxy.

Letter Height	Best Impact	Max Readable Distance
3 inches	30 feet	100 feet
4 inches	40 feet	150 feet
6 inches	60 feet	200 feet
8 inches	80 feet	350 feet
9 inches	90 feet	400 feet
10 inches	100 feet	450 feet
12 inches	120 feet	525 feet
15 inches	150 feet	630 feet
18 inches	180 feet	750 feet
24 inches	240 feet	1000 feet
30 inches	300 feet	1250 feet
36 inches	360 feet	1500 feet
42 inches	420 feet	1750 feet
48 inches	480 feet	2000 feet
54 inches	540 feet	2250 feet
60 inches	600 feet	2500 feet

Recommended Sizes at Entrances



Gold Letters on Maroon Surface (Photo Reference)



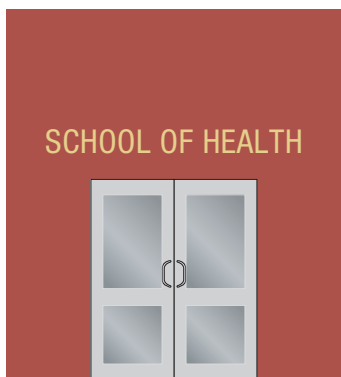
Black Letters on Light Surface (Photo Reference)

Viewing Distance Guidelines

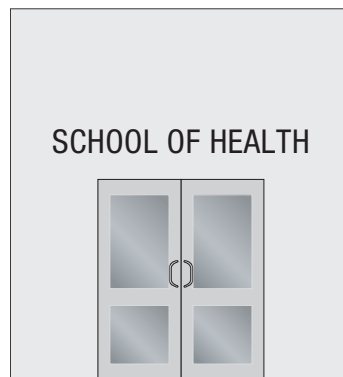
It is recommended to try to maintain consistent letter height for all building entrances throughout campus (reference and measure existing entrance letters prior to letter height determination).

Paper template testing is required for letter height and placement testing prior to fabrication and installation.

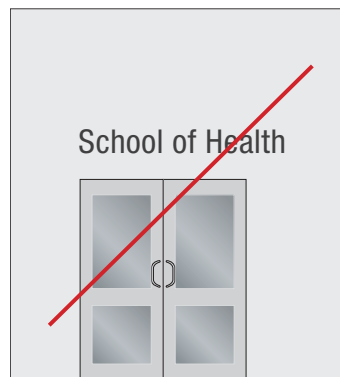
GRAPHIC DO'S & DON'TS



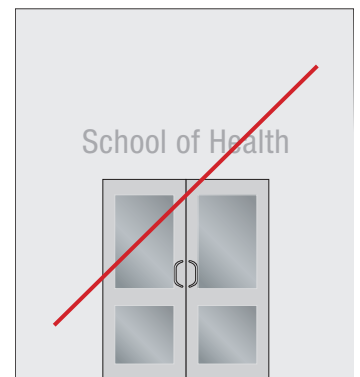
DO use all cap letters.
DO center letters over entrance.
DO use gold letters on maroon surfaces.



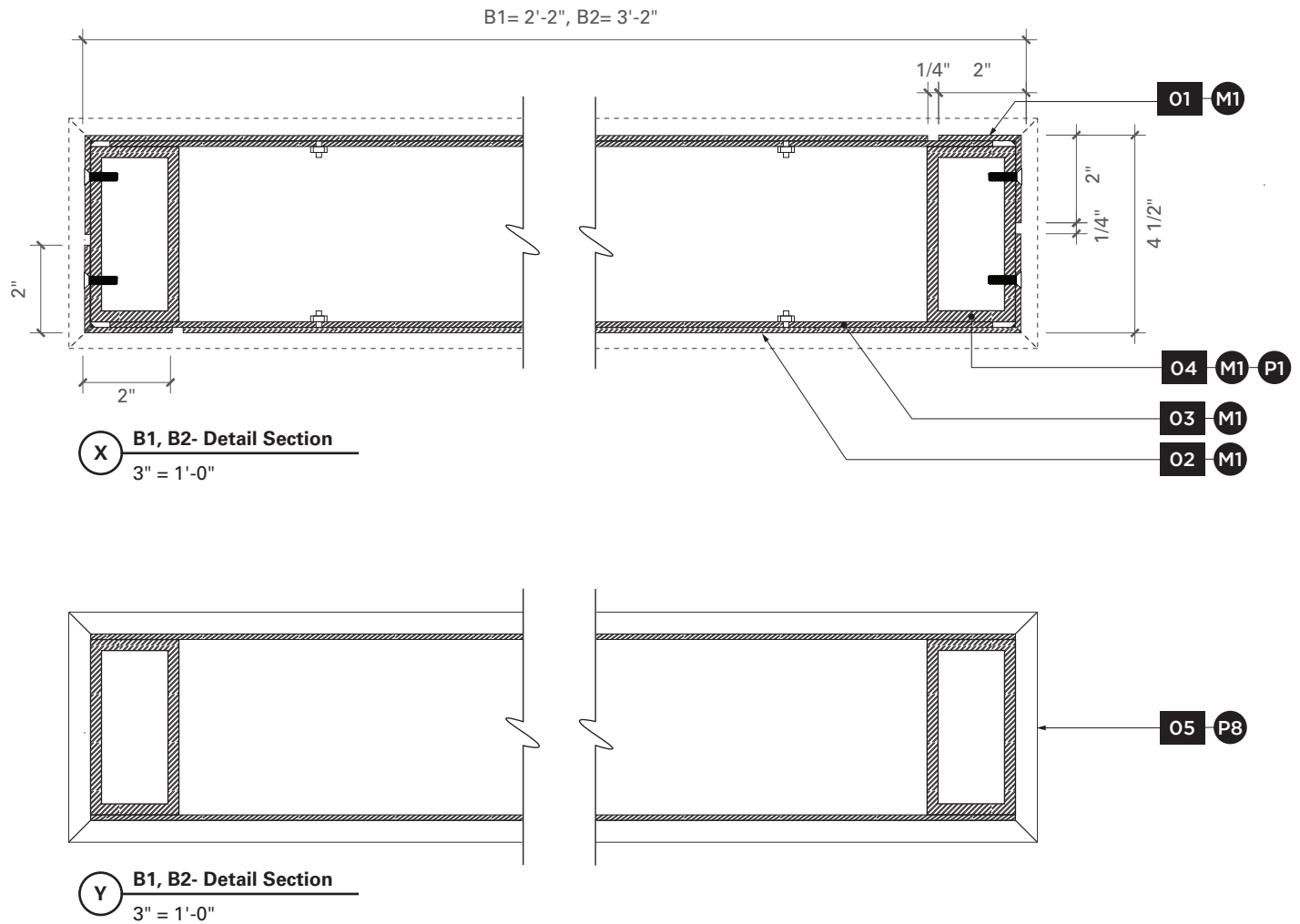
DO use all cap letters.
DO center letters over entrance.
DO use black letters on light surfaces.



DO NOT use upper and lower letters.
DO NOT left align lettering when located over an entryway.



DO NOT use upper and lower letters.
DO NOT use unapproved colors for lettering or colors with low contrast to wall surface.



B1, B2 - BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

02 HEADER/MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary.

03 BACKER PANEL

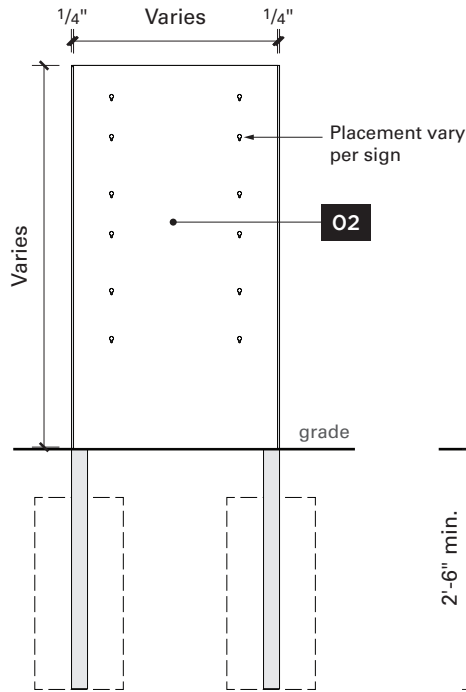
1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

04 STRUCTURAL FRAME

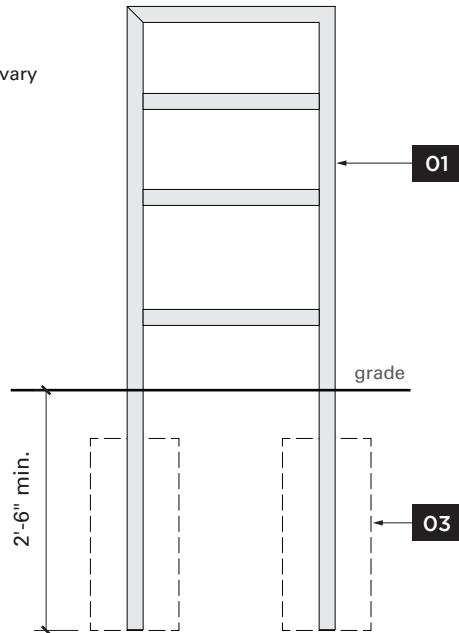
2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.

05 BASE

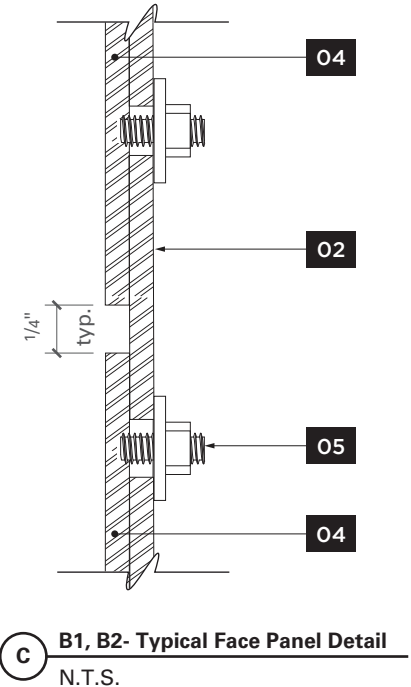
1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.



A B1, B2- Backer Panel Elevation
1/2" = 1'-0"



B B1, B2- Framing Elevation
1/2" = 1'-0"



C B1, B2- Typical Face Panel Detail
N.T.S.

B1, B2 - BUILDING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

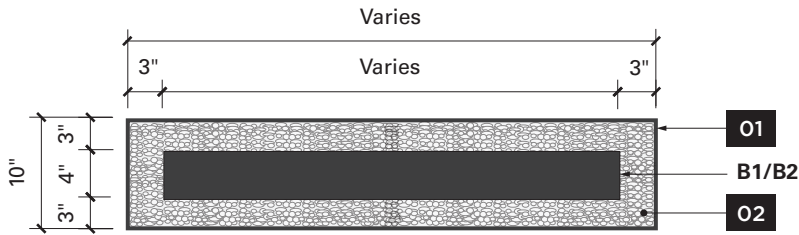
01 STRUCTURAL FRAME
2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.

03 FOOTER
Cast reinforced sonotube concrete footers, to remain completely underground. Design to be confirmed by Fabricator through engineering.

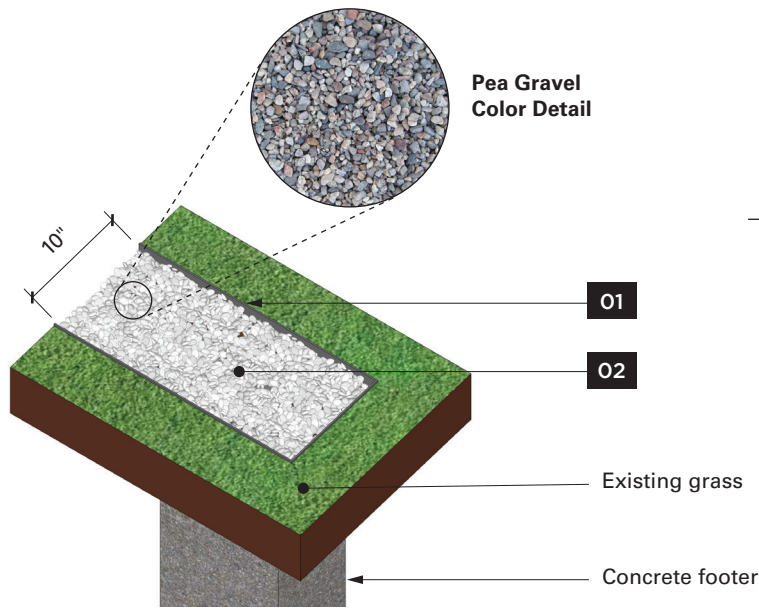
05 BLIND STUDS
Message Panels to be drilled and tapped to receive threaded studs.

02 BACKER PANEL
1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

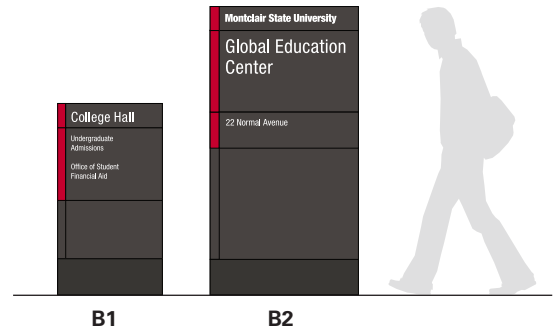
04 MESSAGE PANELS
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No visible fasteners on first surface.



A Top View: Installation Detail
3/4" = 1'-0"



B Landscape Detail
NTS



B1, B2- INSTALLATION DETAIL (GRASS INSTALL)

GENERAL FABRICATION/GRAPHIC NOTES: It is recommended to install Building Identification signs into mulch bed areas.

If a mulch bed area is not available and the sign must be installed into a grass area, then this detail must be utilized for proper grass installation.

01 LINE EDGING

Permaloc Clean Line Edging
3/16" x 4" aluminum edging
Bronze Duraflex

02 PEA GRAVEL

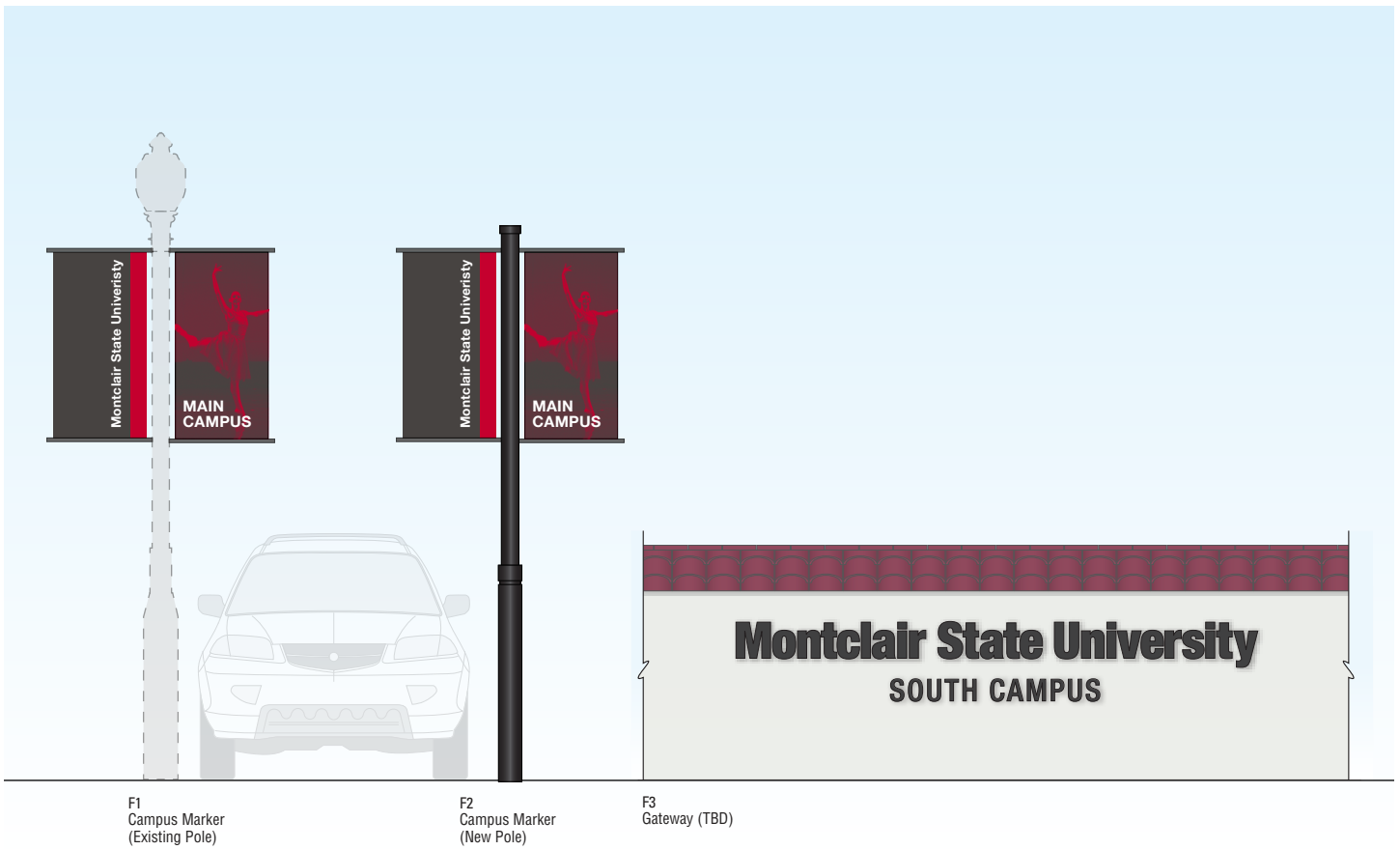
3/8" grey pea gravel.

PART 2, SECTION C

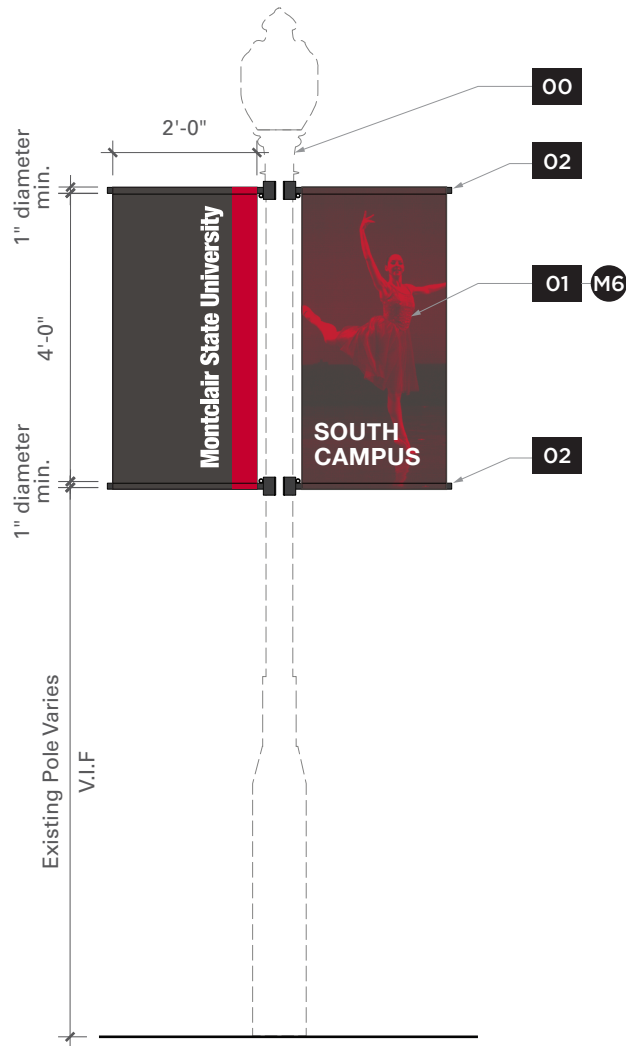
EXTERIOR SIGNAGE

Campus Markers

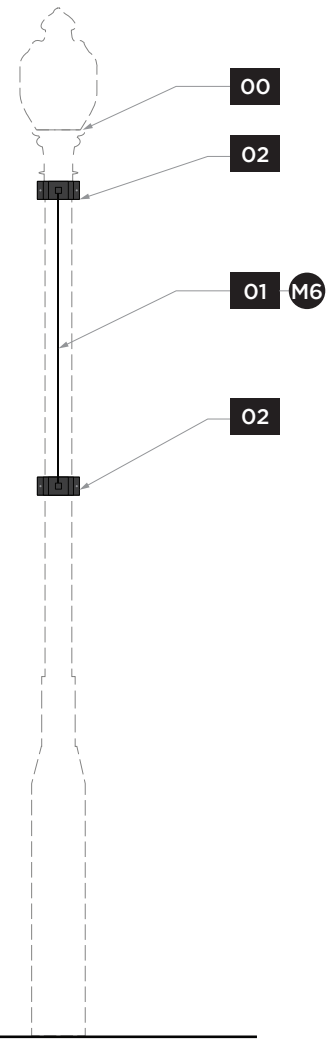
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SCALE 1/4"=1'-0"



A F1- Front /Rear Elevation (Existing Pole)
3/8" = 1'-0"



B F1- Side Elevation (Existing Pole)
3/8" = 1'-0"

F1 - CAMPUS MARKER

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

00 POLE (EXISTING)

Round pole, varies in width and height.

01 FABRIC BANNER

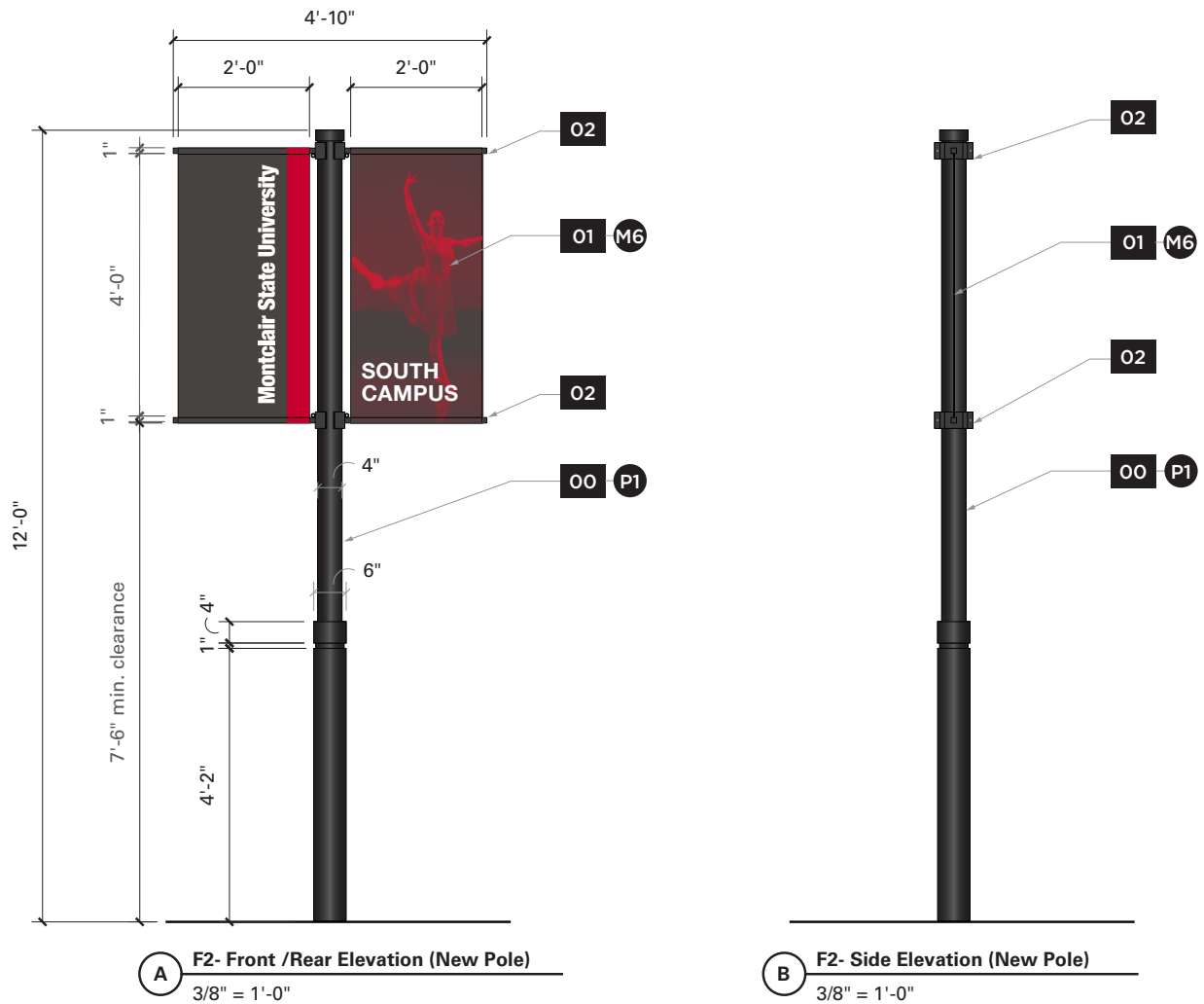
Dye sublimation fabric banner with opaque blocker installed with brackets

02 ARM BRACKETS

Two way straight arm banner brackets, 1" sq. steel tube

NOTE:

Approved images for campuses available from: Michael J. Zanko, zankom@mail.montclair.edu OR Ellen Gallagher-Kenny, gallaghere@montclair.edu



F2 - CAMPUS MARKER

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

00 POLE (NEW)

Round pole, painted. Footer to be determined by engineering.

01 FABRIC BANNER

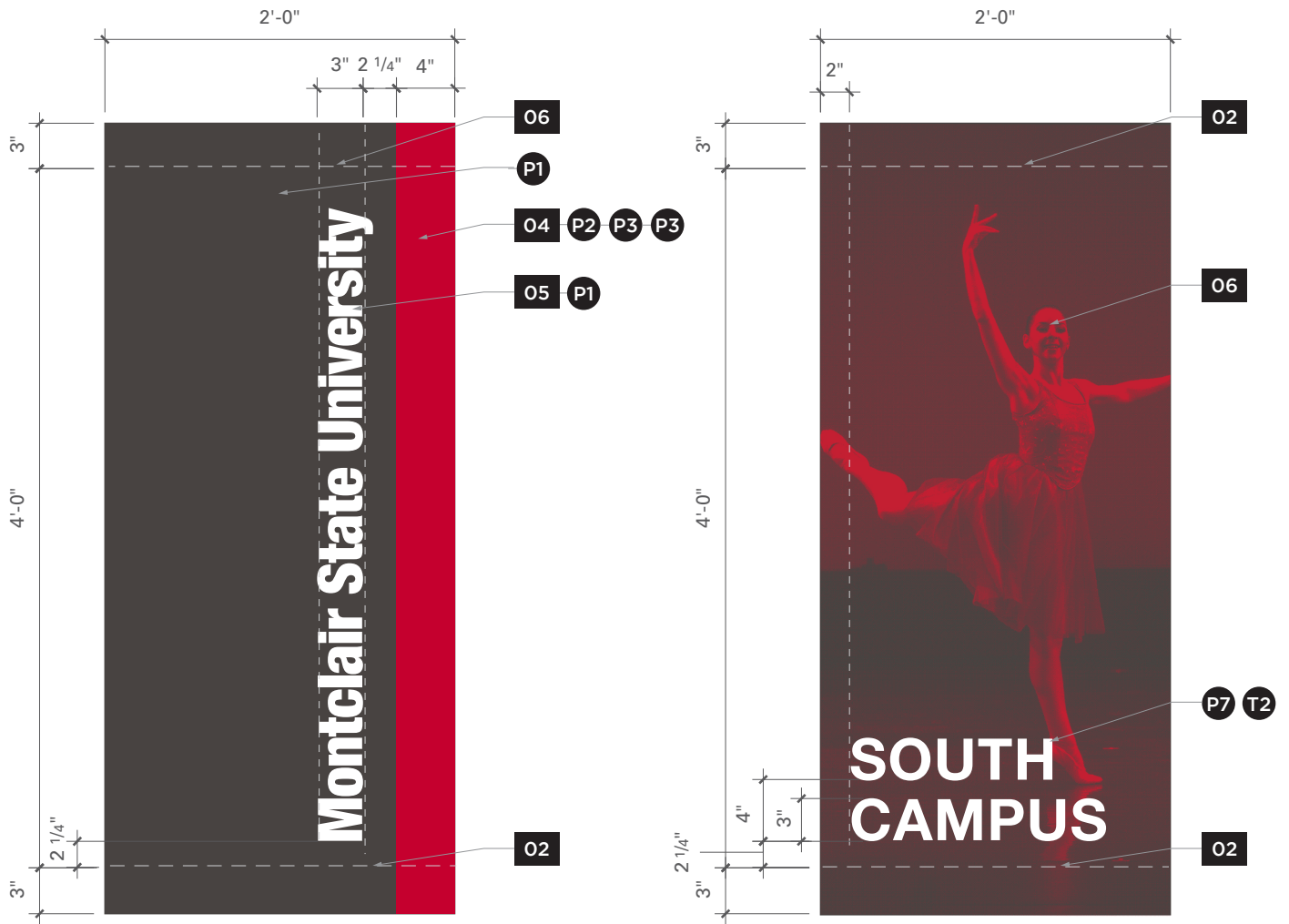
Dye sublimation fabric banner with opaque blocker installed with brackets

02 ARM BRACKETS

Two way straight arm banner brackets, 1" sq. steel tube

NOTE:

Approved images for campuses available from: Michael J. Zanko, zankom@mail.montclair.edu OR Ellen Gallagher-Kenny, gallaghere@montclair.edu



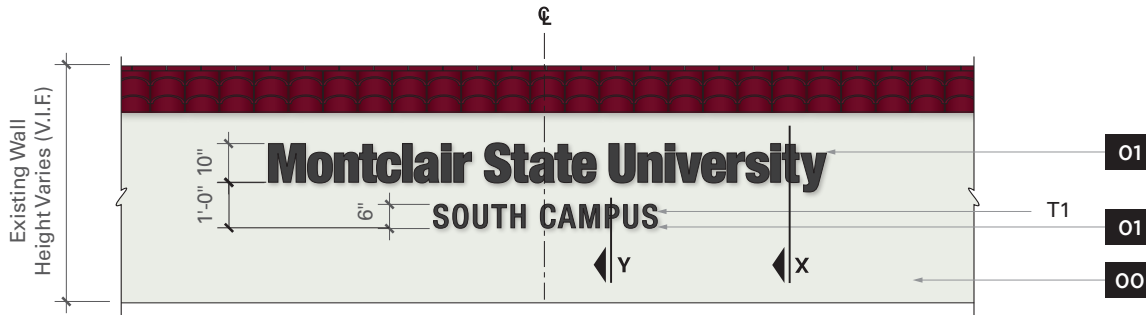
A F1- Graphic Elevations
1" = 1'-0"

F1, F2- CAMPUS MARKER

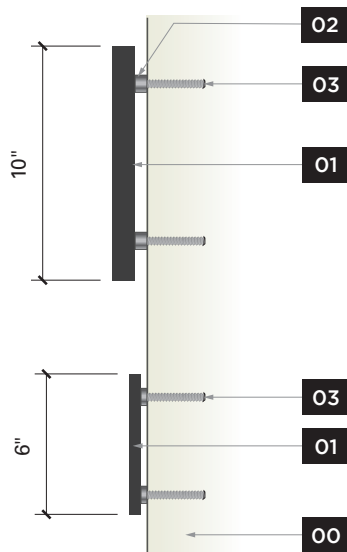
GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

NOTE:

Approved images for campuses available from: Michael J. Zanko, zankom@mail.montclair.edu OR Ellen Gallagher-Kenny, gallaghere@montclair.edu



A F3- Front Elevation (typical)
1/4" = 1'-0"



B F3- Side Elevation
1 1/2" = 1'-0"

F3 - CAMPUS GATEWAY LETTERING

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

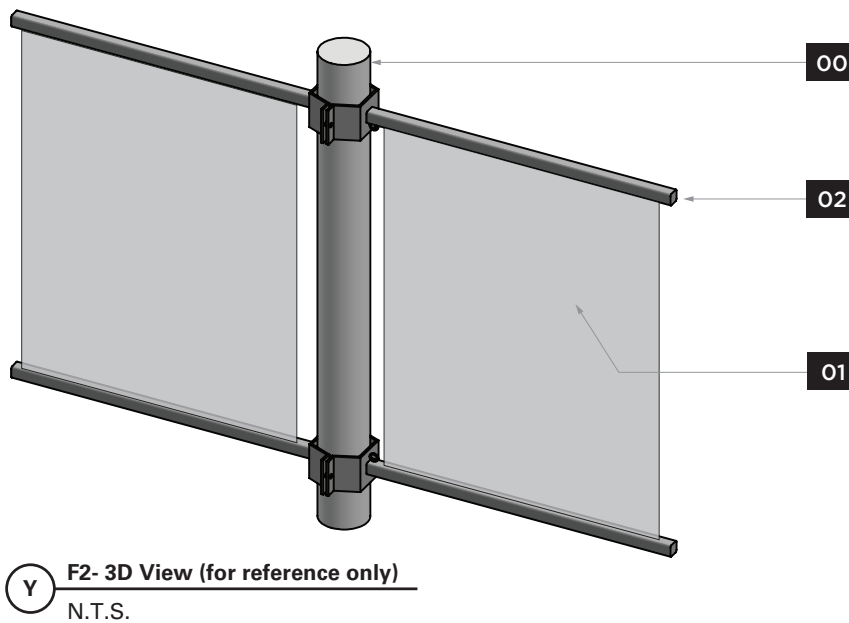
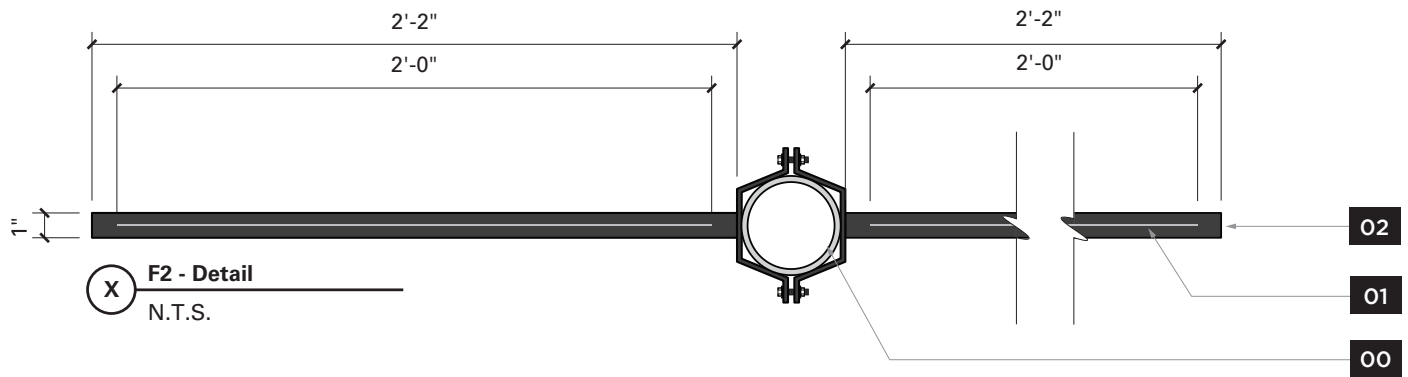
00 WALL (EXISTING)
Varies in length, height and construction.

02 SPACER
1/2" aluminum spacer.

01 DIMENSIONAL LETTERS
1" thk. fabricated aluminum letter forms, or acrylic letter forms to be laser cut. Acrylic letters to be painted, aluminum letters to have brushed horizontal finish with a clear coat.

03 STUD MOUNT
Letters to be drilled and tapped to receive threaded studs. Drill wall and set with clear epoxy.

*NOTE: Coordinate MSU Brand artwork with updated brand, TBD by Owner.



F2- CAMPUS MARKER

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

00 POLE (NEW)

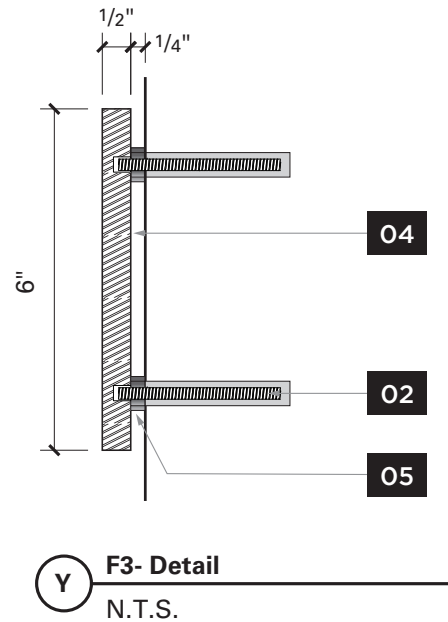
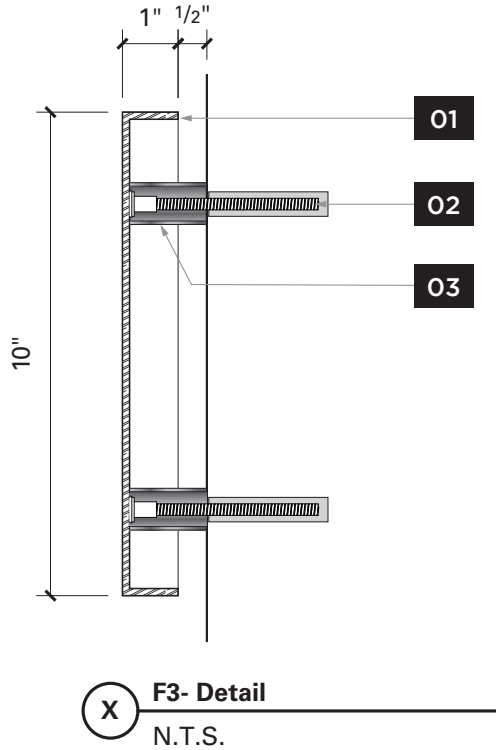
Round pole, painted. Footer to be determined by engineering.

01 FABRIC BANNER

Dye sublimation fabric banner with opaque blocker installed with brackets

02 ARM BRACKETS

Two way straight arm banner brackets, 1" sq. steel tube



F3 - CAMPUS GATEWAY LETTERING

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 FABRICATED LETTERS

Fabricated aluminum letters to have threaded fittings welded to inside face to receive threaded studs. Letters to have a brushed horizontal finish with a clear coat.

02 STUD MOUNT

Threaded rods, adequate to support letters. Depth to depend on wall where letters to be installed. Drill wall and set with clear epoxy.

03 SPACER

1 1/2" aluminum spacer to offset letters 1/2" off the wall.

04 CUT LETTERS

Cut letters to be drilled and tapped to receive threaded studs. Drill wall and set with clear epoxy.

05 SPACER

1/4" aluminum spacer.

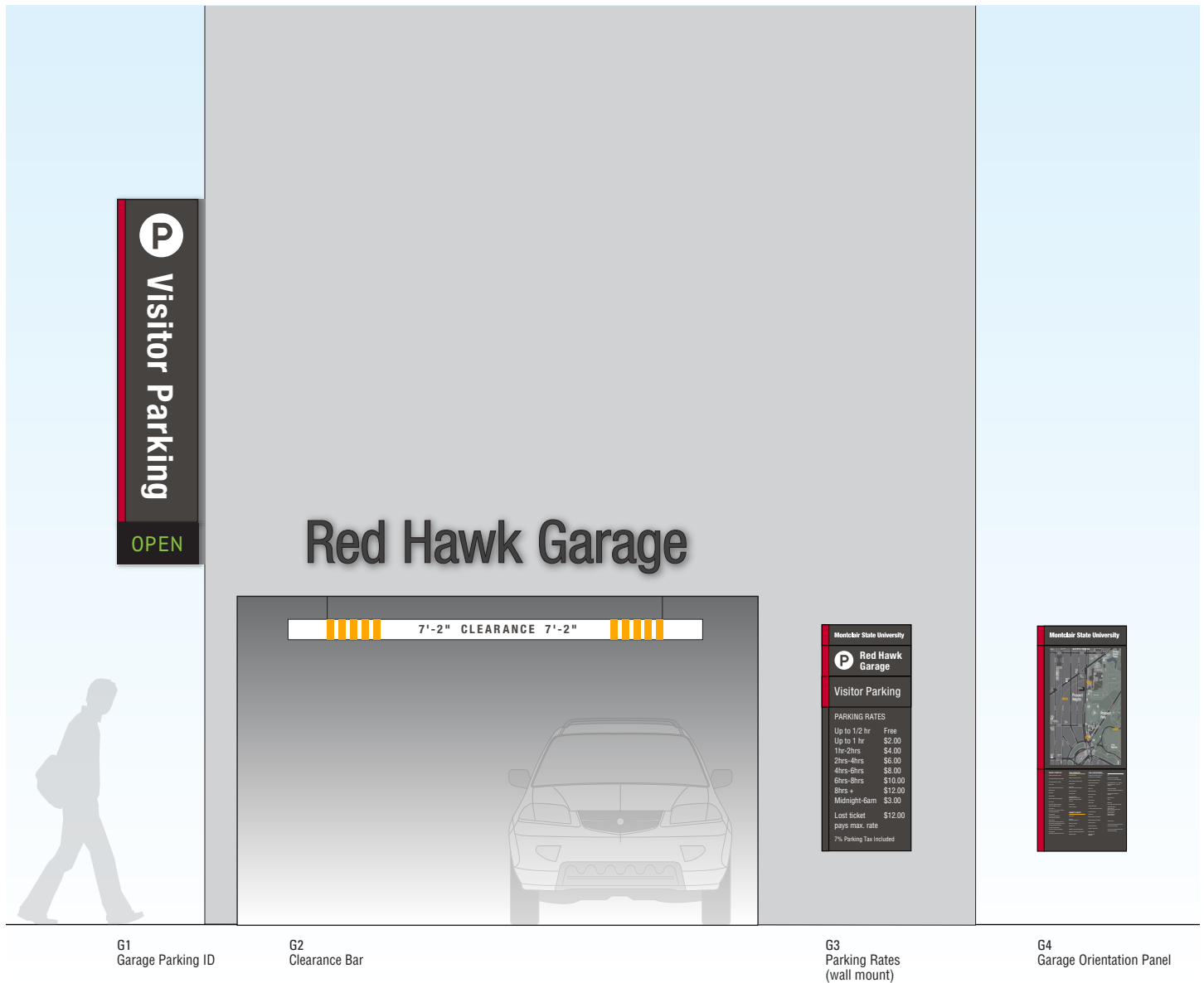
*NOTE: Coordinate MSU Brand artwork with updated brand, TBD by Owner.

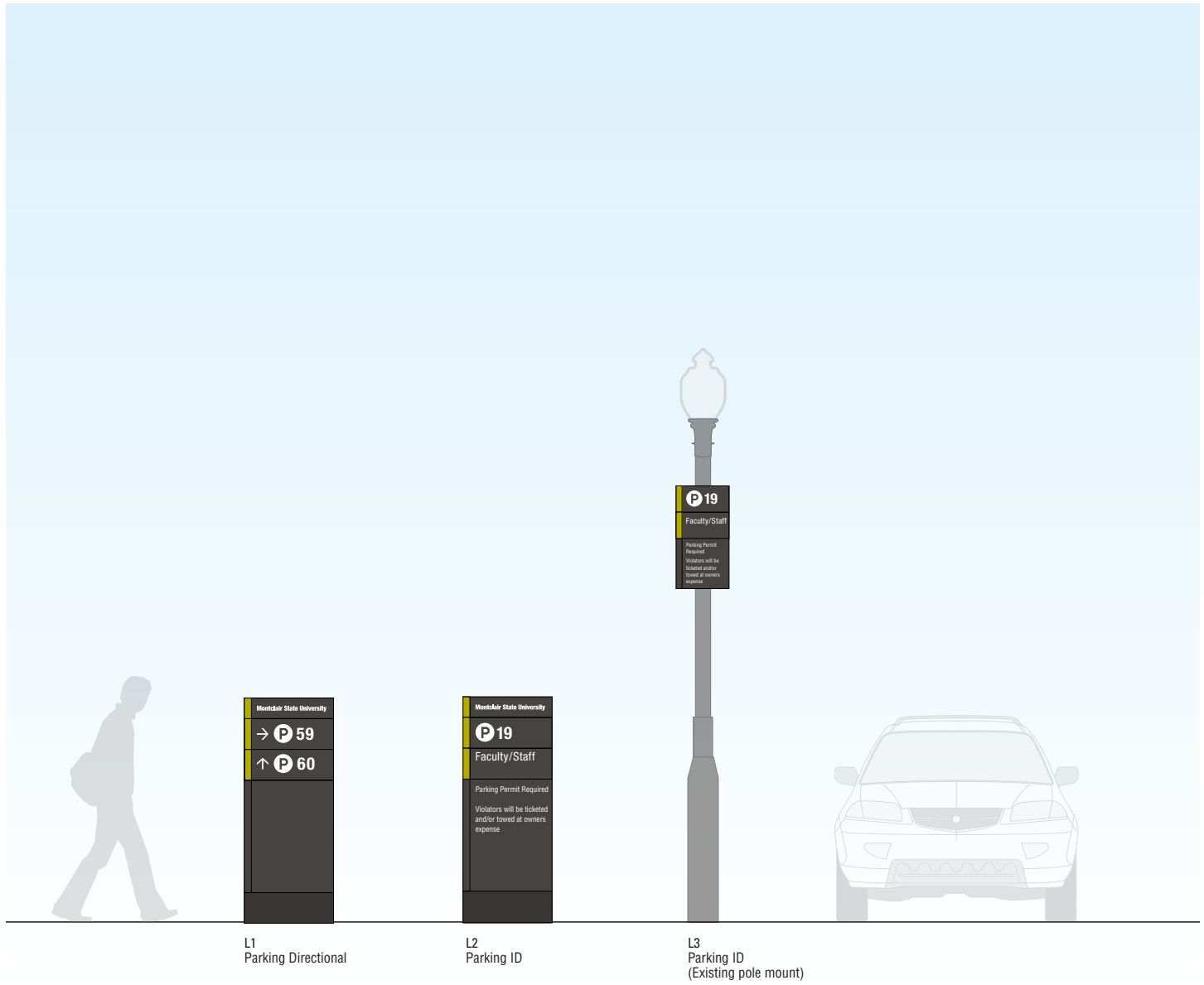
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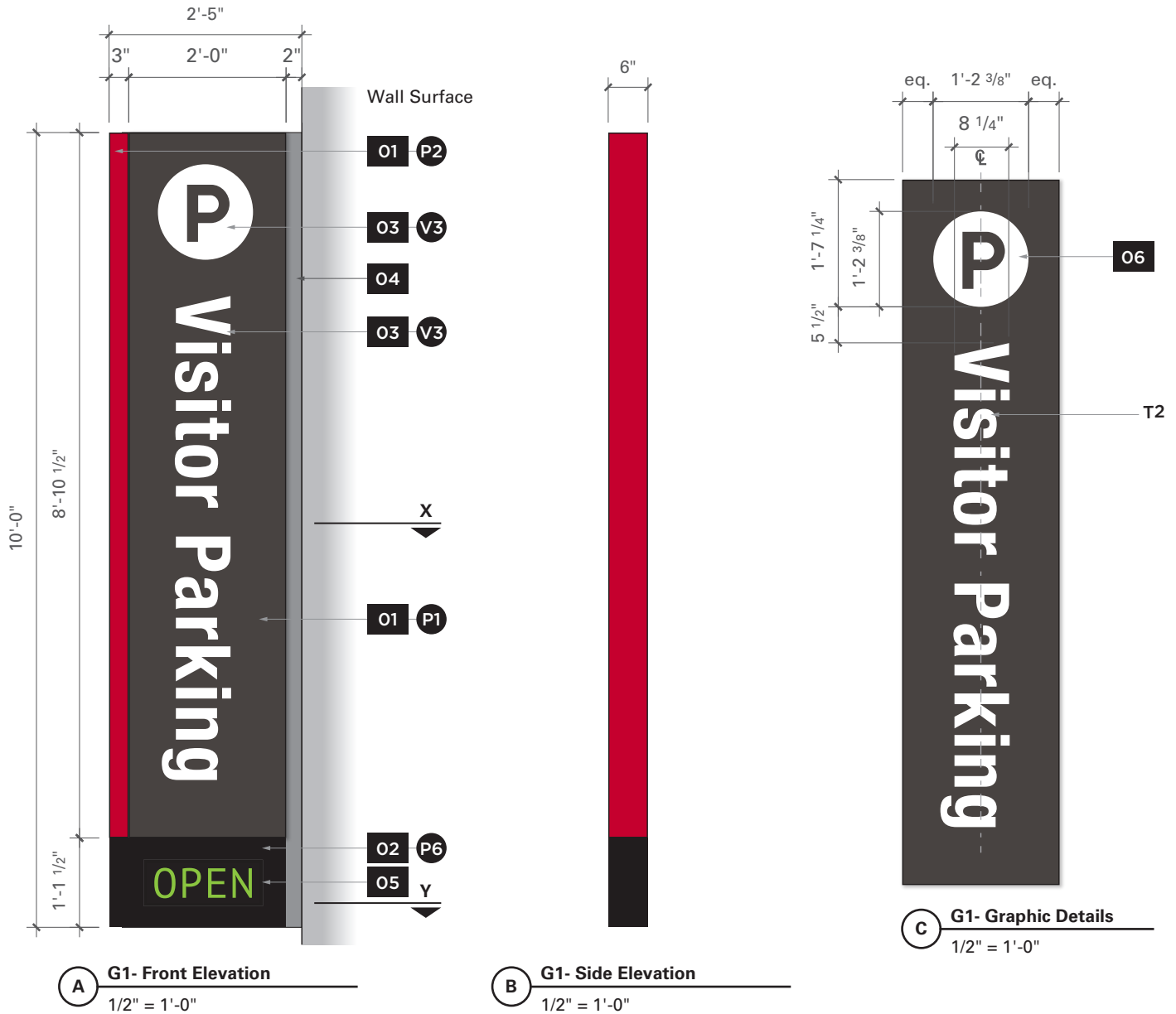
PART 2, SECTION D

EXTERIOR SIGNAGE

Garage & Parking







G1 - GARAGE PARKING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 MESSAGE PANEL
 1/8" thk. aluminum plate fastened to Structural Frame w/ VHB tape. Paint all exposed surfaces. Seal cabinet for weatherproofing.

02 LOWER FACE PANEL
 1/8" thk. aluminum plate fastened to Structural Frame w/ VHB tape. Paint all exposed surfaces. Seal cabinet for weatherproofing.

03 REFLECTIVE GRAPHICS
 Surface applied reflective vinyl graphics.

04 WALL BRACKET
 Fabricated bracket of 1/4" thk. welded aluminum plates, to be mechanically fastened to the wall. Design to be confirmed by Fabricator through engineering. Paint all exposed surfaces.

05 LED SIGN
 7" x 18" x 2 1/2" Open-Closed Digital LED display sign, 5887 (TCL718GR-100) by SignalTech or approved similar. To be controlled with Single Gang On/Off/On Switch, Model 3039 (SG) by Signal-Tech. Location to be coordinated with Owner.

06 PARKING SYMBOL
 Artwork to be provided by Designer.



PHOTO RENDERING FOR REFERENCE

GRAPHIC DO'S & DON'TS

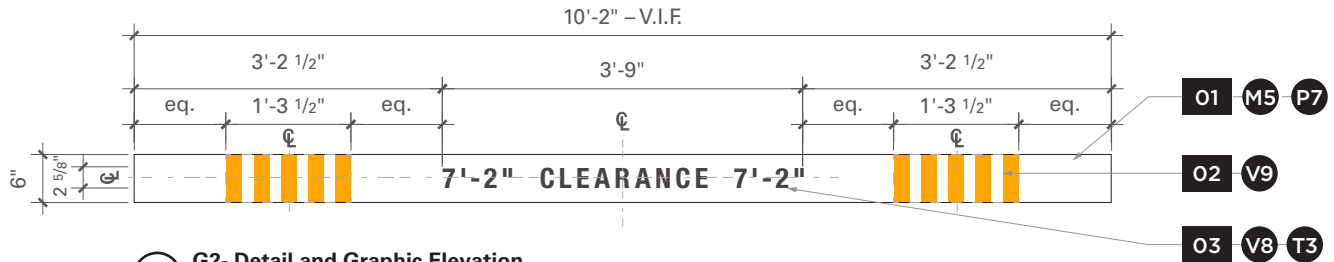


DO NOT list message vertically.

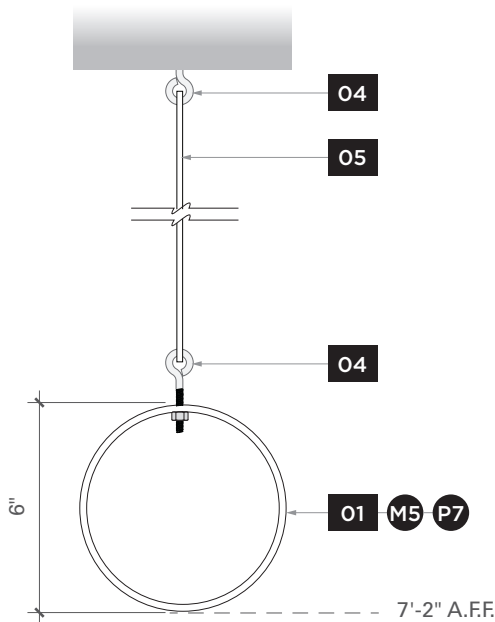


DO NOT re-arrange information on sign.

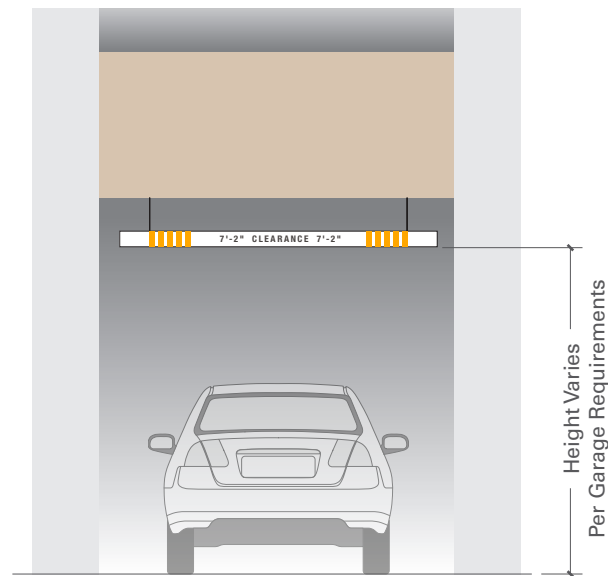
Locate G1 sign type on the side of parking garage where it has the best visibility for approaching traffic.



A G2- Detail and Graphic Elevation
1/2" = 1'-0"



B G2- Section
N.T.S.



C G2- Install Elevation
N.T.S.

G2 – GARAGE CLEARANCE BAR

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

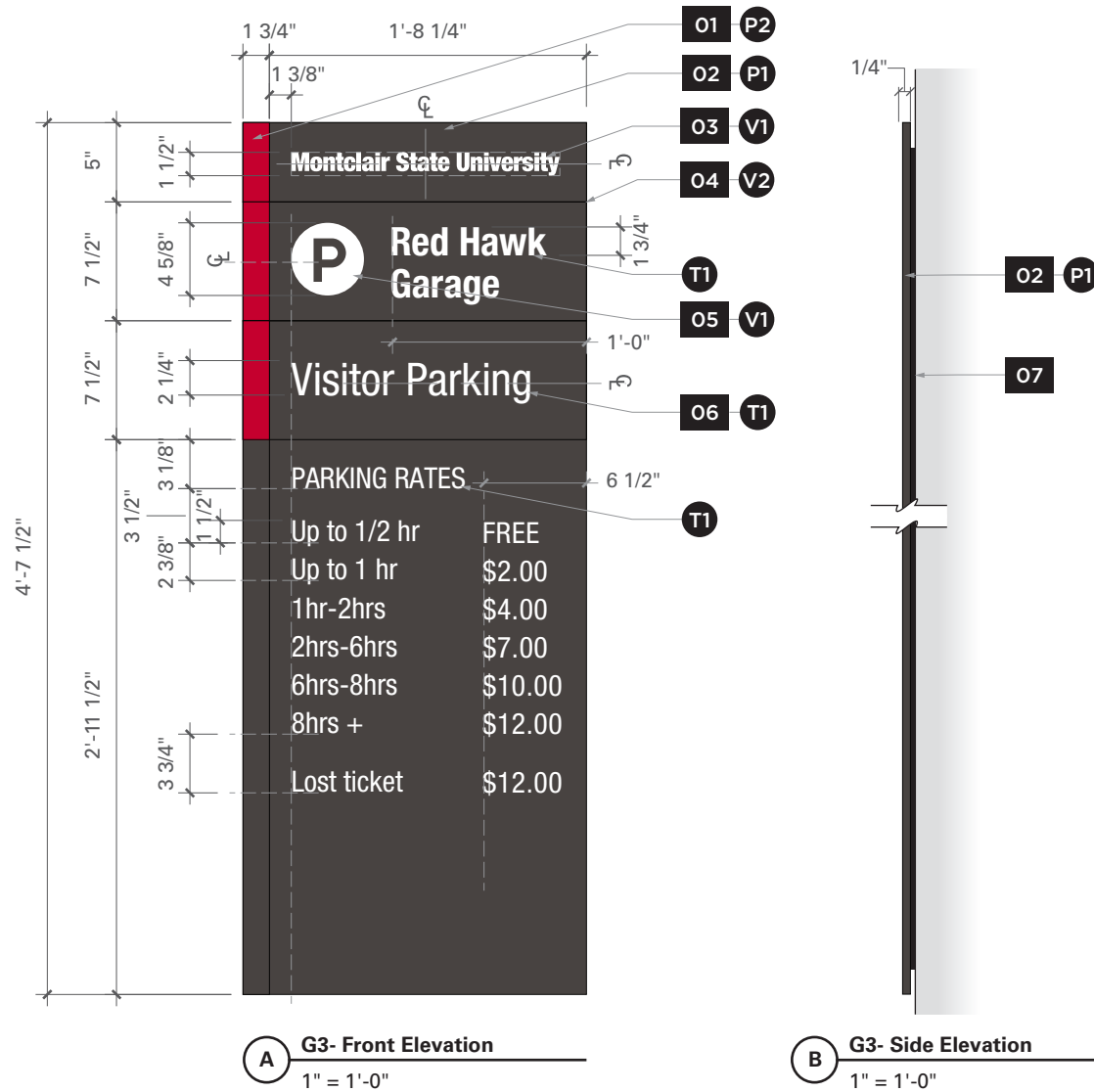
01 BANG BAR
PVC tube w/ cut + applied vinyl graphics.
Paint all surfaces.

02 CAUTION STRIPES
Surface applied reflective vinyl, artwork
to be provided by Designer.

03 MESSAGE
Surface applied vinyl copy.

04 EYE BOLT
1" dia. S.S. eye bolt w/ nut + washer at
PVC tube connection. Use appropriate
S.S. drop-in threaded Epoxy anchor to
secure Eye Bolt to concrete ceiling.

05 SUSPENSION CABLE
1/16" S.S. cable w/ crimps.



G3 – GARAGE PARKING RATES

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 ACCENT COLOR

Mask and paint Message Panel

04 GRAPHIC RULES

1/8" w. surface applied vinyl.

02 MESSAGE PANEL

1/4" thk. aluminum sheet, paint all exposed surfaces. Attach to wall with VHB Tape.

05 PARKING SYMBOL

Surface applied vinyl, artwork to be provided by Designer.

03 LOGO

Surface applied vinyl, artwork to be provided by Designer.

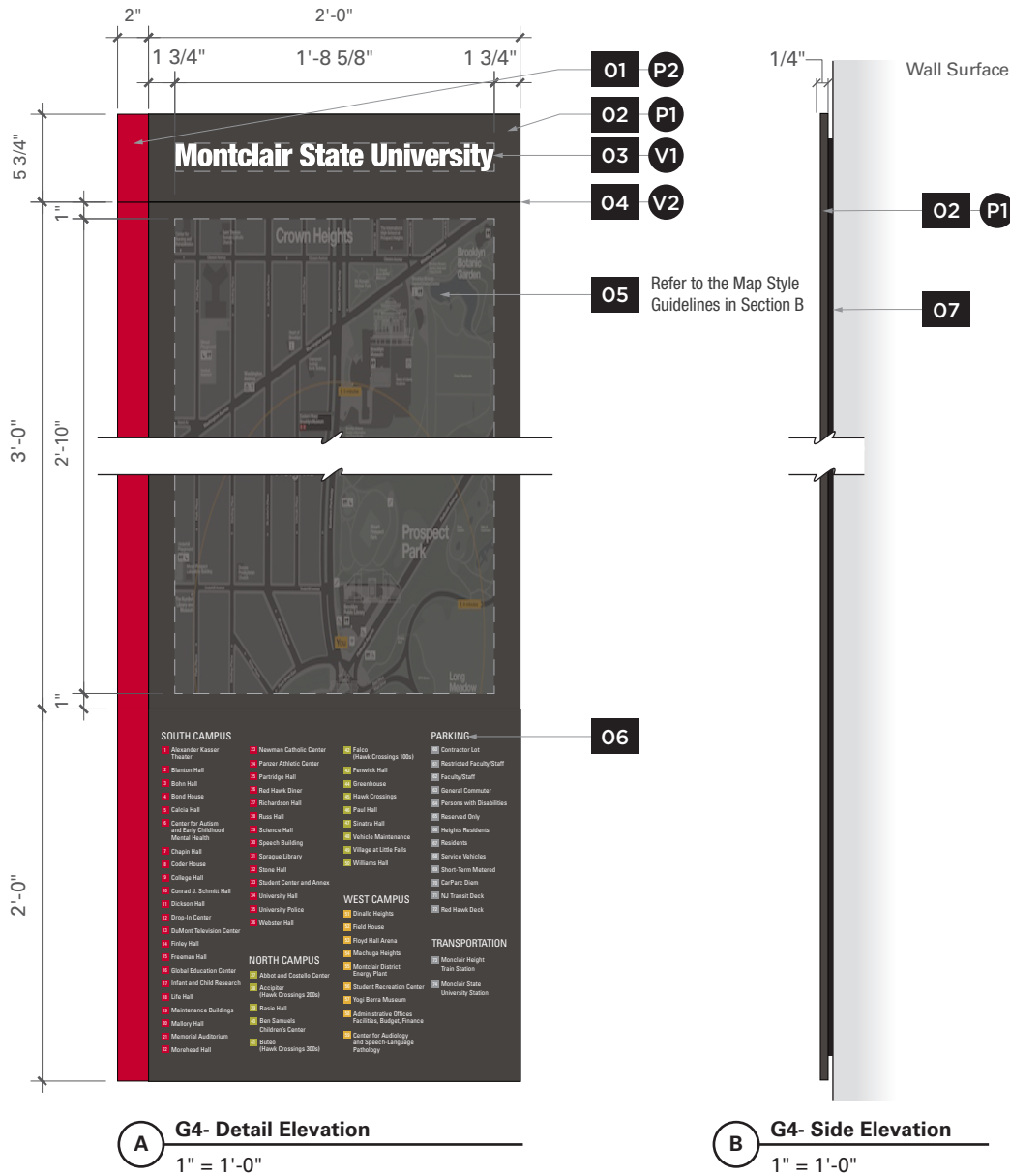
06 MESSAGE

Surface applied vinyl copy.

*NOTE: Coordinate artwork with updated brand, TBD by Owner.

07 VHB TAPE

3M Scotch VHB 4930. Use thickness as required.



G4 - GARAGE ORIENTATION PANEL

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 ACCENT COLOR
Mask and paint Message Panel

02 MESSAGE PANEL
1/4" thk. aluminum sheet, paint all exposed surfaces. Attach to wall with VHB Tape.

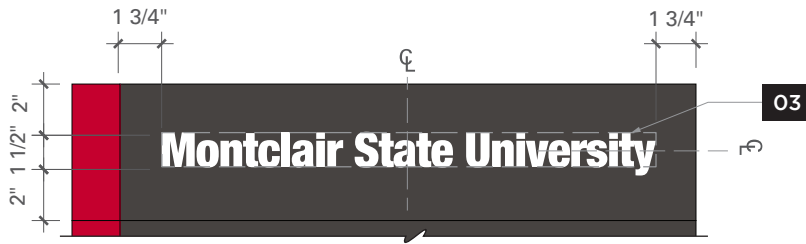
03 LOGO
Surface applied vinyl, artwork to be provided by Designer.
*NOTE: Coordinate artwork with updated brand, TBD by Owner.

04 GRAPHIC RULES
1/8" w. surface applied vinyl.

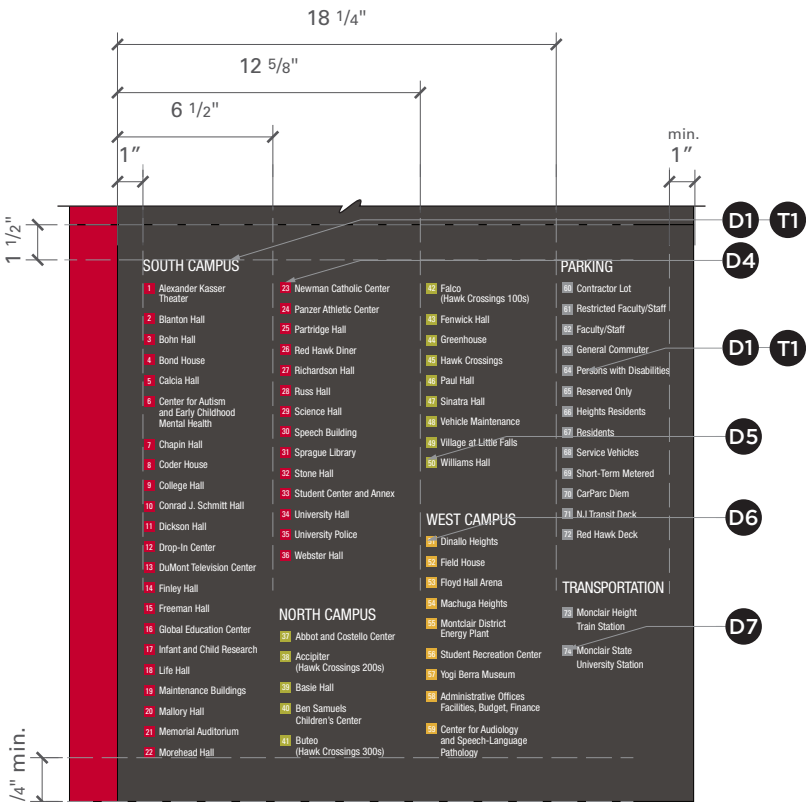
05 MAP ARTWORK
Map artwork to be determined and to be provided by Owner. (Note: Reference Part 3, Section B, Graphic Standards for Map Art Guidelines)

06 KEY/MESSAGES
Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required. NOTE: Final messaging to coordinate with Map Artwork (TBD), to be provided by Owner.

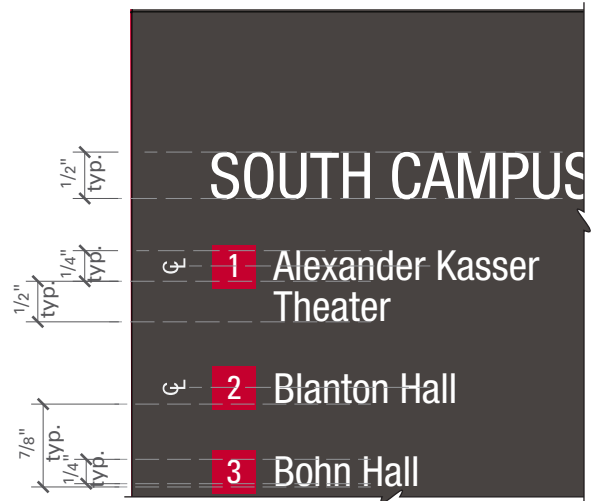
07 VHB TAPE
3M Scotch VHB 4930
Thickness as required.



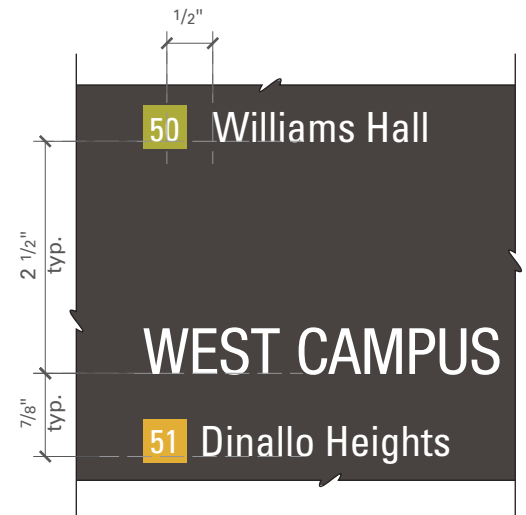
A G4- Graphic Elevation
1 1/2" = 1'-0"



B G4- Graphic Elevation
1 1/2" = 1'-0"



C G4- Partial Graphic Layout
1:2



D G4- Partial Graphic Layout
1:2

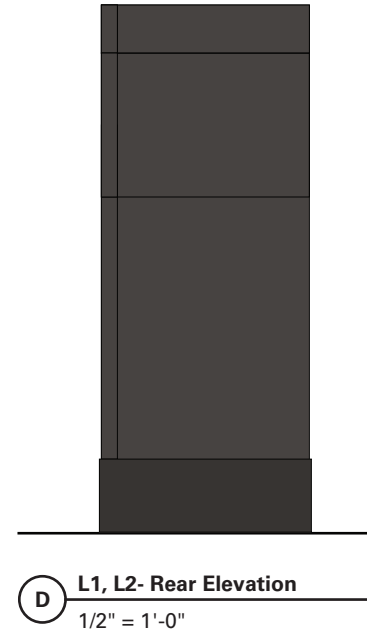
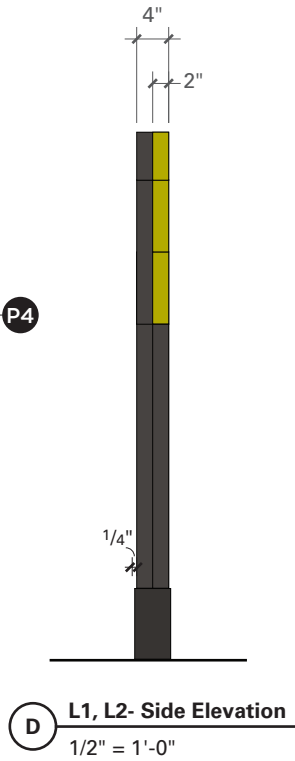
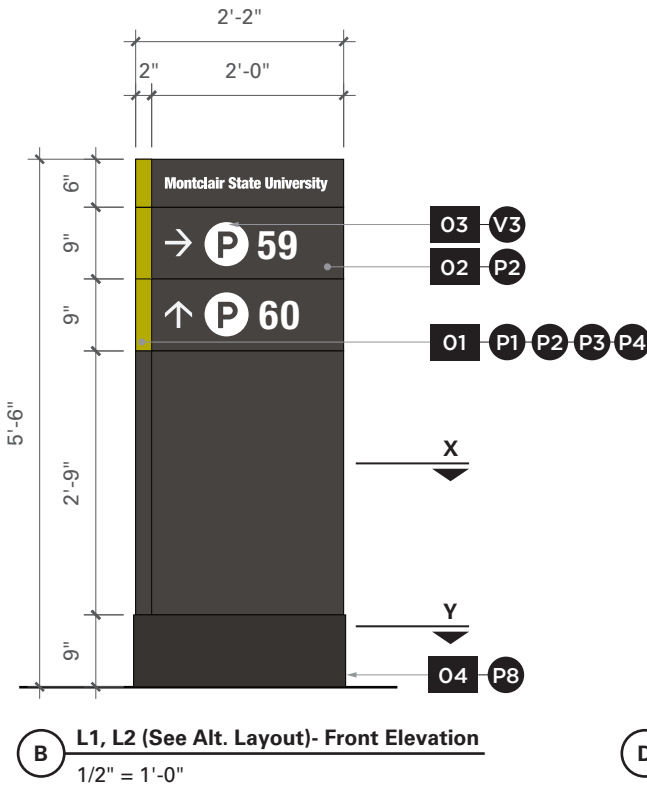
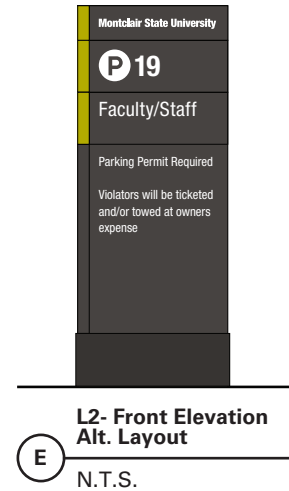
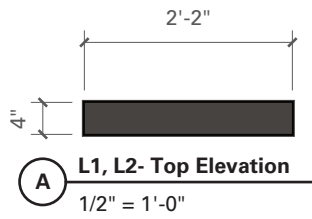
GRAPHIC DO'S & DON'TS



DO NOT re-arrange panel order.



DO NOT mix Accent Colors on sign.



L1, L2 - PARKING DIRECTIONAL, IDENTIFICATION PYLON

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

03 GRAPHICS

Surface applied reflective vinyl graphics.

06 ARROW

Surface applied vinyl reflective graphics. Artwork to be provided by Designer.

04 BASE

1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

07 PARKING SYMBOL

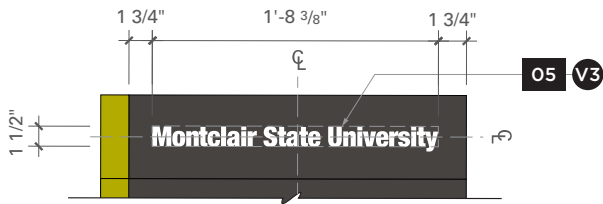
Surface applied vinyl reflective graphics. Artwork to be provided by Designer.

02 HEADER/ MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.

05 MSU BRAND

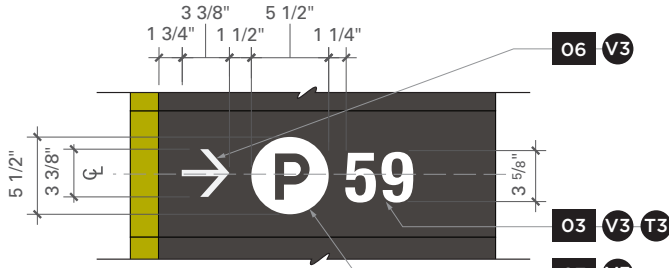
Surface applied reflective vinyl graphics. Artwork to be provided by Designer. *NOTE: Coordinate artwork with updated brand, TBD by Owner.



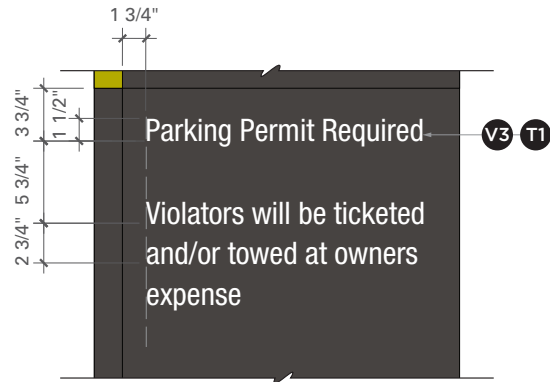
A L1, L2 - Header Panel
1" = 1'-0"



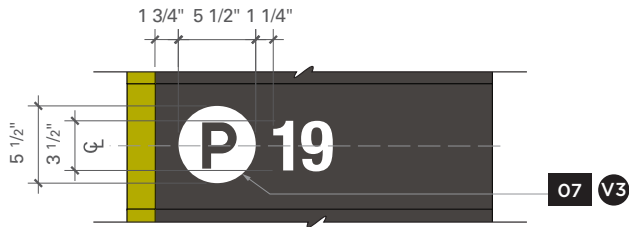
D L1, L2 - Primary Message Panel
1" = 1'-0"



B L1, L2 - Primary Message Panel
1" = 1'-0"

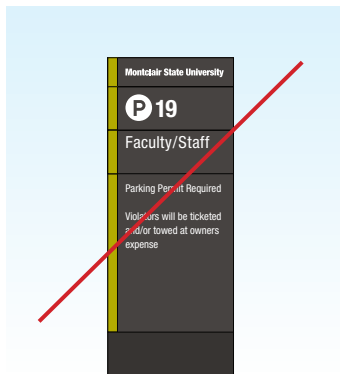


E L1, L2 - Secondary Message Panel
1" = 1'-0"

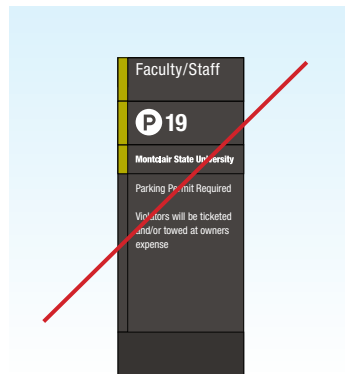


C L1, L2 - Primary Message Panel
1" = 1'-0"

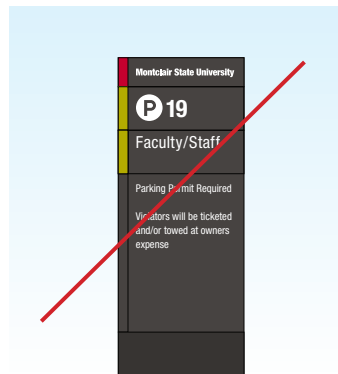
GRAPHIC DO'S & DON'TS



DO NOT extend Accent Color beyond identification panels.



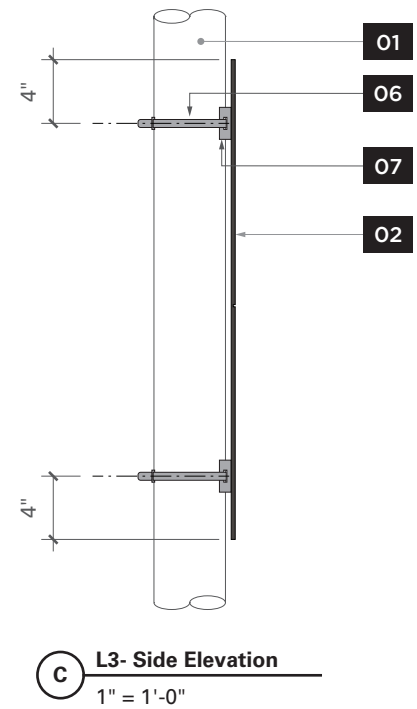
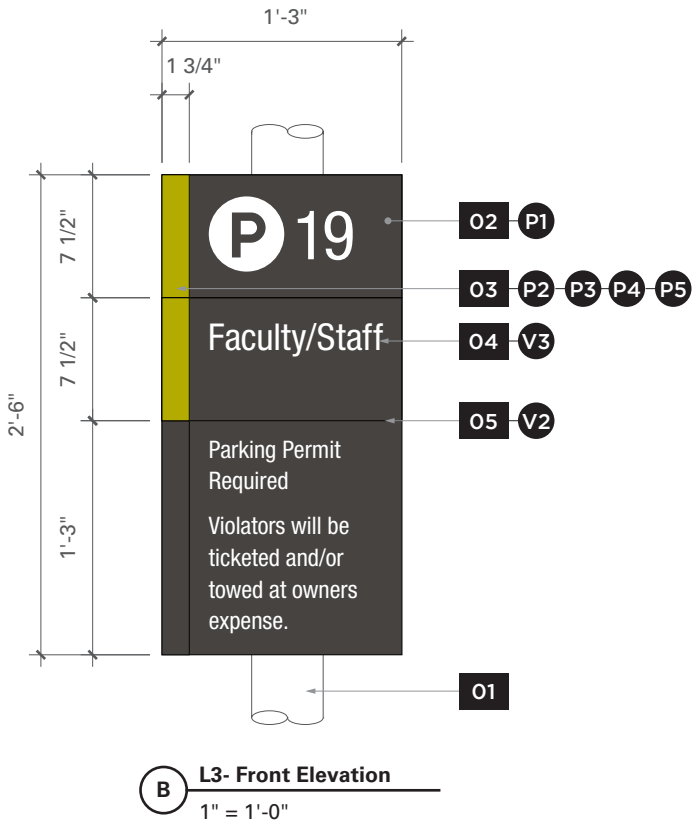
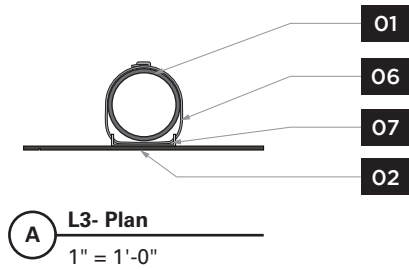
DO NOT re-arrange panel order.



DO NOT mix Accent Colors on sign.

Use Lot Directional Panel when there is a need to move traffic to adjacent lot.

Accent Color is determined by Zone color



L3 - PARKING IDENTIFICATION (POLE MOUNT)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 POLE (EXISTING)
Round pole, varies in width and height.

05 GRAPHIC RULES
1/8" w. surface applied vinyl.

02 MESSAGE PANEL
1/4" thk. aluminum sheet, paint all exposed surfaces.

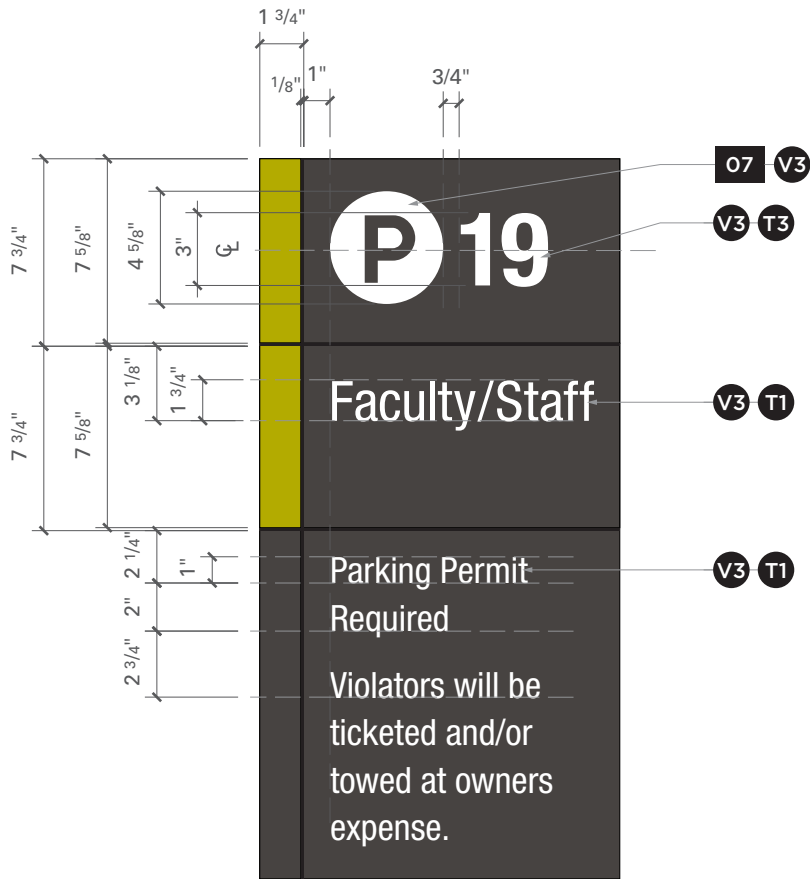
06 METAL STRAPS
Stainless steel. Preformed hose clamps or strap banding.

03 ACCENT COLOR
Mask and paint Message Panel.

07 MOUNTING BRACKET
Aluminum channel. Cut slit openings for threading metal straps.

04 MESSAGE
Surface applied reflective vinyl copy. Artwork to be provided by Designer.

08 PARKING SYMBOL
Surface applied vinyl reflective graphics. Artwork to be provided by Designer.

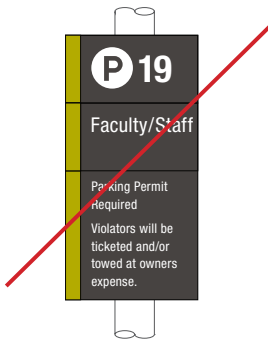


A L3- Front Elevation
 1 1/2" = 1'-0"

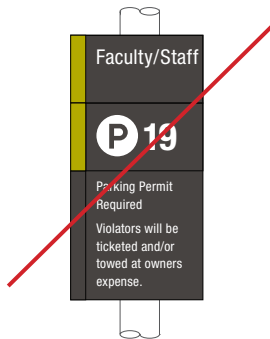
GRAPHIC DO'S & DON'TS

L3 does not receive MSU brand.

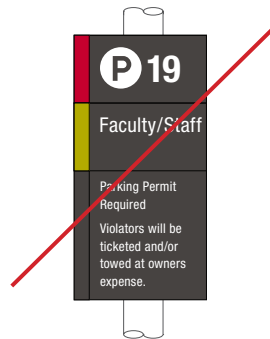
L3 Accent Color should match Accent Colors on L1 and L2.



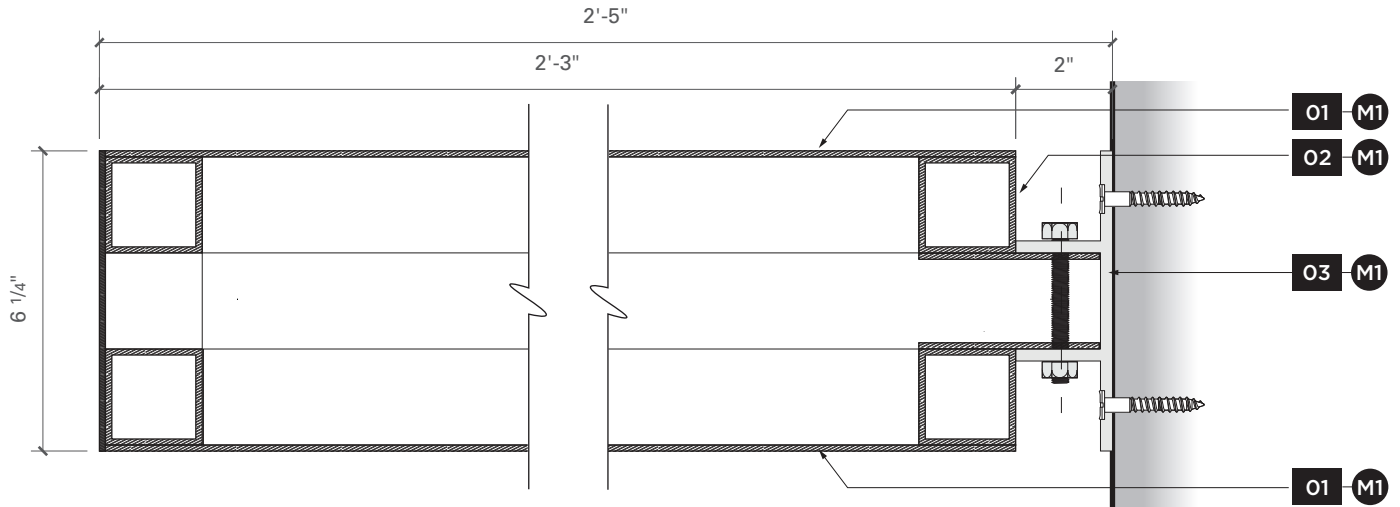
DO NOT extend Accent Color beyond identification panels.



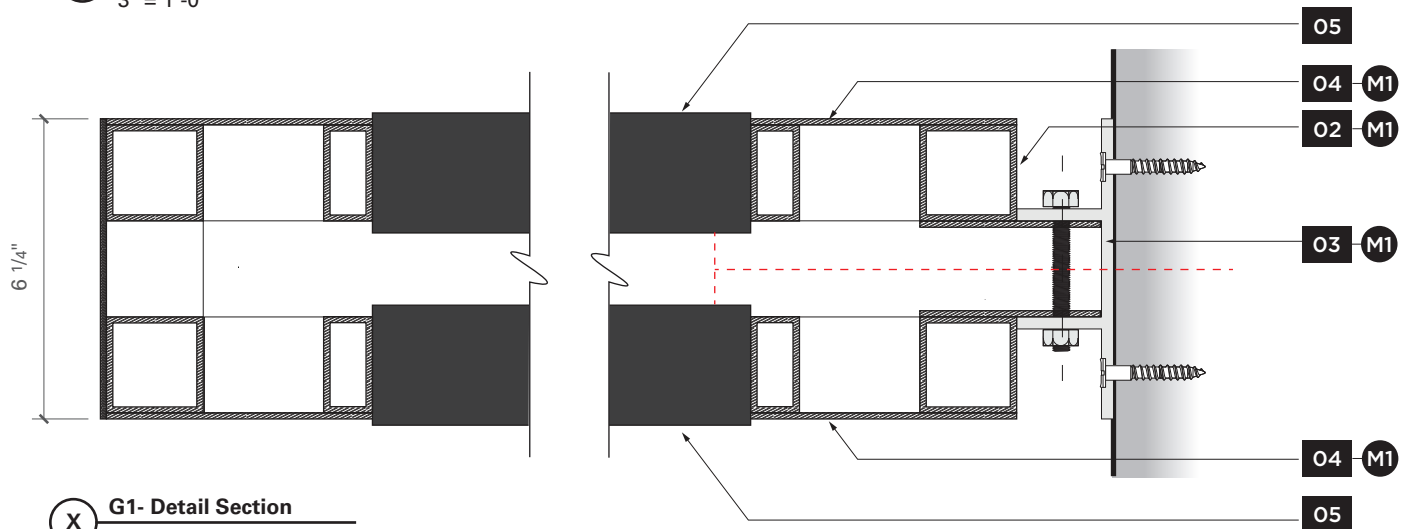
DO NOT re-arrange panel order.



DO NOT mix Accent Colors on sign.



X G1- Detail Section
3" = 1'-0"



X G1- Detail Section
3" = 1'-0"

G1 - GARAGE PARKING IDENTIFICATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 MESSAGE PANEL

1/8" thk. aluminum plate fastened to Structural Frame w/ VHB tape. Paint all exposed surfaces. Seal cabinet for weatherproofing.

02 STRUCTURAL FRAME

Aluminum tube frame, mechanically fastened to Wall Bracket. Design to be confirmed by Fabricator through engineering. Paint all exposed surfaces.

03 WALL BRACKET

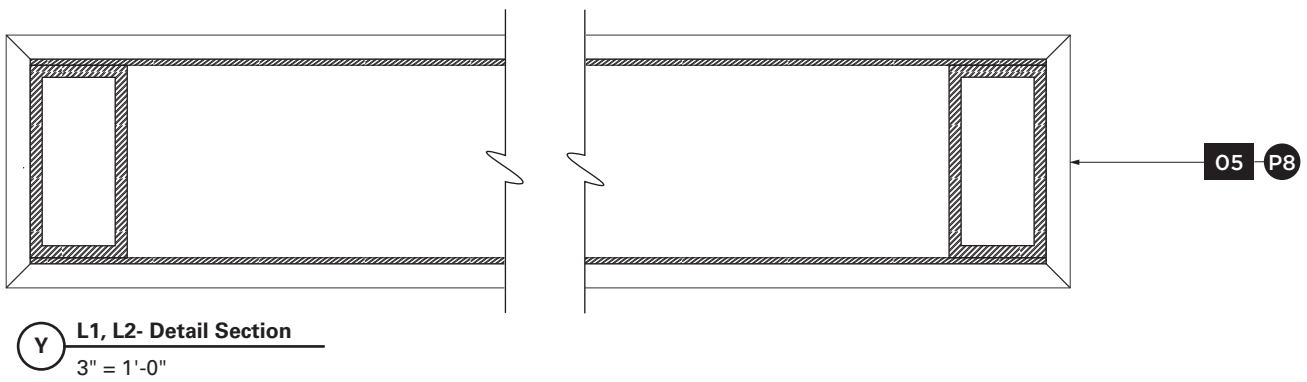
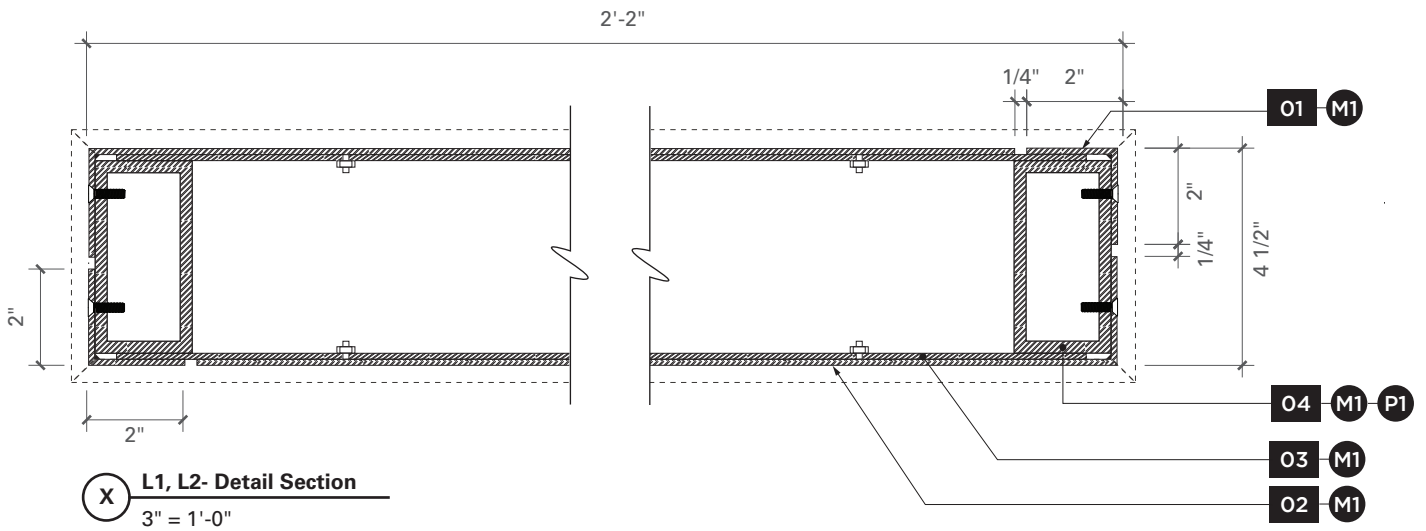
Fabricated bracket of 1/4" thk. welded aluminum plates, to be mechanically fastened to the wall. Design to be confirmed by Fabricator through engineering. Paint all exposed surfaces.

04 LOWER FACE PANEL

1/8" thk. aluminum plate fastened to Structural Frame w/ VHB tape. Paint all exposed surfaces. Seal cabinet for weatherproofing.

05 LED SIGN

7" x 18" x 2 1/2" Open-Closed Digital LED display sign, 5887 (TCL718GR-100) by SignalTech or approved similar. Cabinet to be painted to match Lower Face Panel.



L1, L2 - PARKING IDENTIFICATION (PYLON)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

02 HEADER/MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary.

03 BACKER PANEL

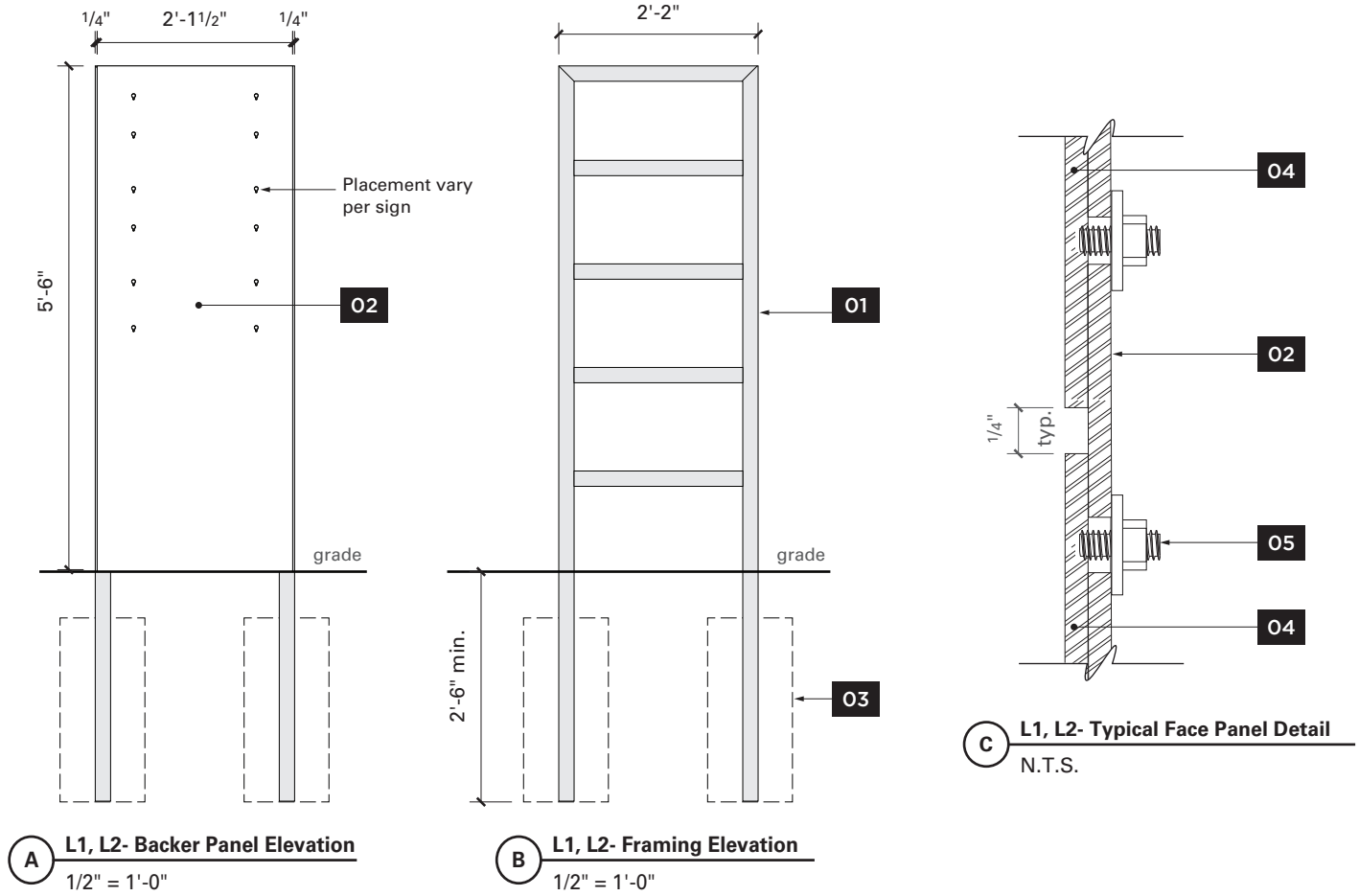
1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

04 STRUCTURAL FRAME

2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.

05 BASE

1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.



L1, L2 - PARKING IDENTIFICATION (PYLON)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

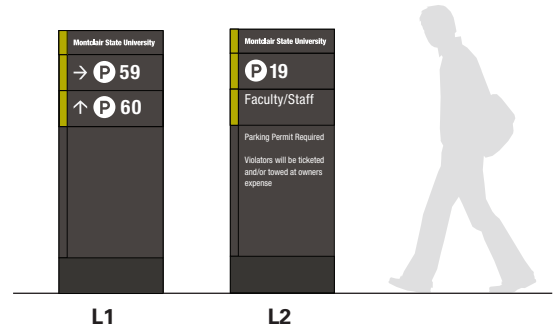
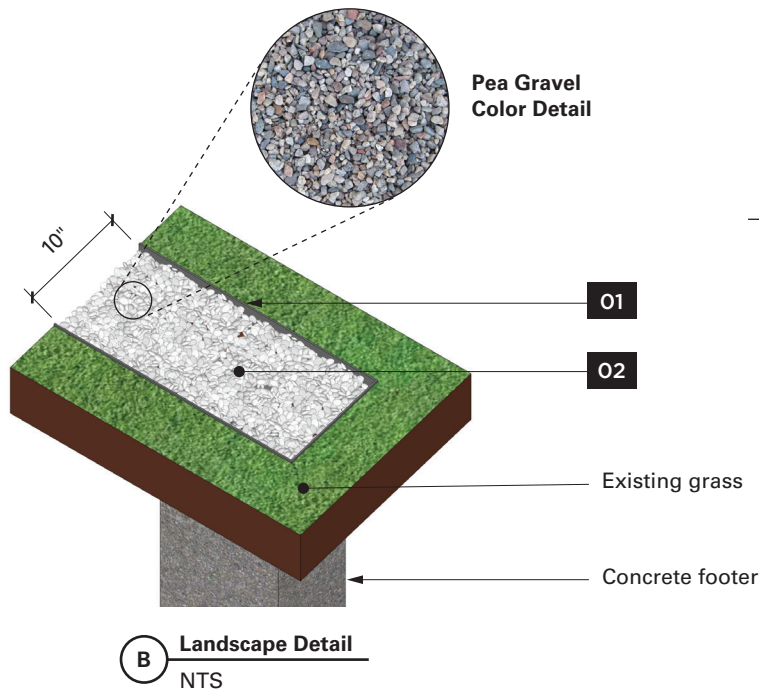
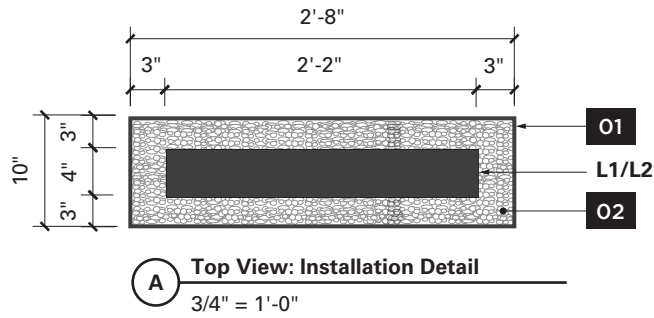
01 STRUCTURAL FRAME
2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.

03 FOOTER
Cast reinforced sonotube concrete footers, to remain completely underground. Design to be confirmed by Fabricator through engineering.

05 BLIND STUDS
Message Panels to be drilled and tapped to receive threaded studs.

02 BACKER PANEL
1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

04 MESSAGE PANELS
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No visible fasteners on first surface.



L1, L2- INSTALLATION DETAIL (GRASS INSTALL)

GENERAL FABRICATION/GRAPHIC NOTES: It is recommended to install Pedestrian signs into mulch bed areas.

If a mulch bed area is not available and the sign must be installed into a grass area, then this detail must be utilized for proper grass installation.

01 LINE EDGING

Permaloc Clean Line Edging
3/16" x 4" aluminum edging
Bronze Duraflex

02 PEA GRAVEL

3/8" grey pea gravel.

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PART 2, SECTION E

EXTERIOR SIGNAGE

Pedestrian & Shuttle



Montclair State University **CAMPUS INFORMATION**

Map of campus with highlighted routes.

Fall Career Fair
Register Today!

Hearts of Men
September 10 - 8pm
Memorial Auditorium

P1
Information Hub

SOUTH CAMPUS

- ↑ Kasser Theater
- Alumni Green
- Amphitheater
- Sprague Library
- Conference Center
- ↖ Red Hawk Garage
- Student Services Center
- Chapin Hall
- Russ Hall
- Freeman Hall

↑ **EAST CAMPUS**

↑ **WEST CAMPUS**

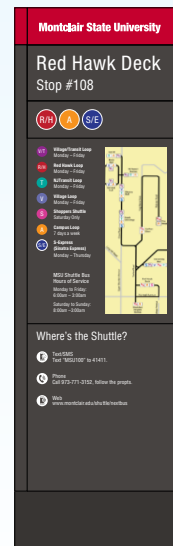
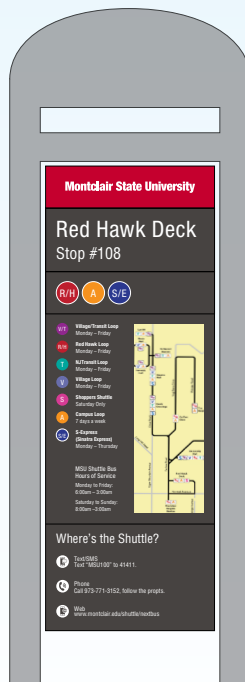
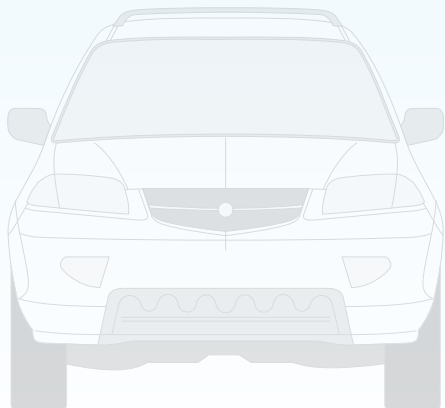
P2
Pedestrian Directional

SOUTH CAMPUS

- College Hall
- Chapin Hall
- Russ Hall
- Freeman Hall
- ↑ Kasser Theater
- Amphitheater
- ↖ Red Hawk Garage

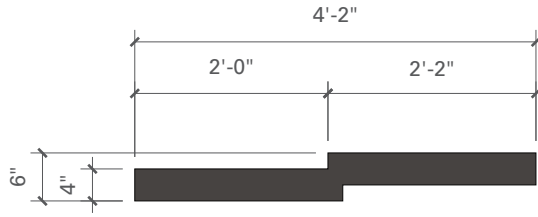
P3
Pedestrian Directional



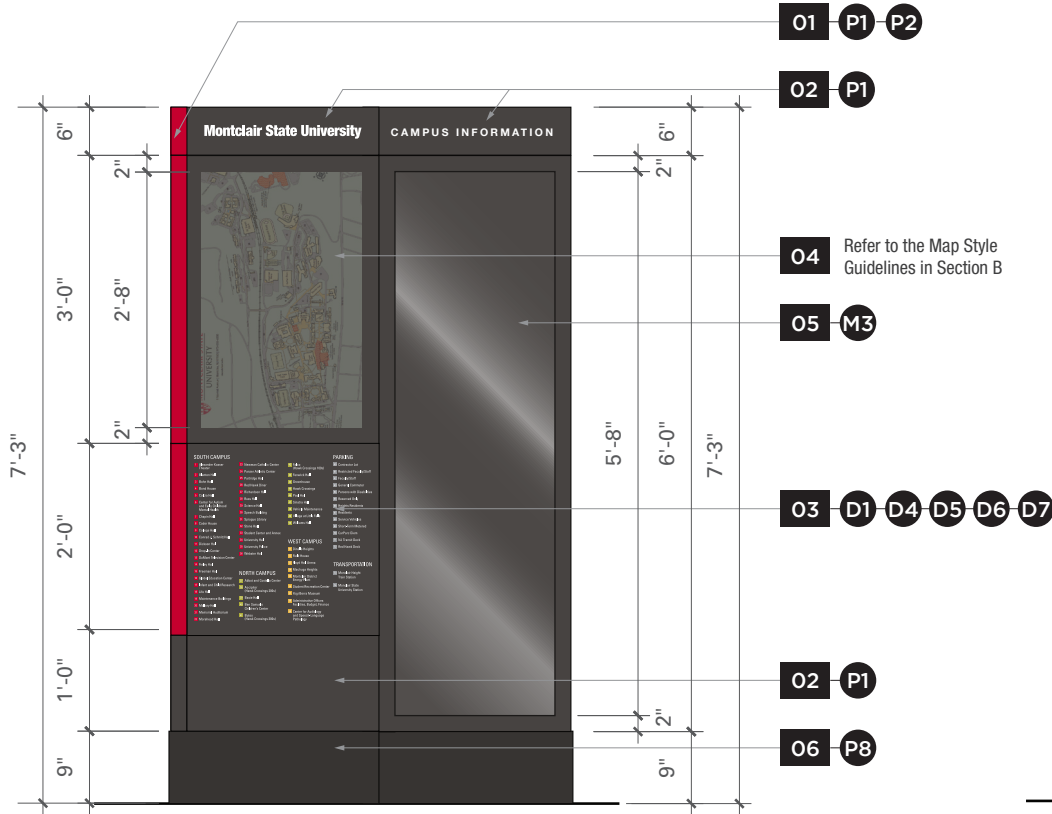


S1 Shuttle Stop Applied

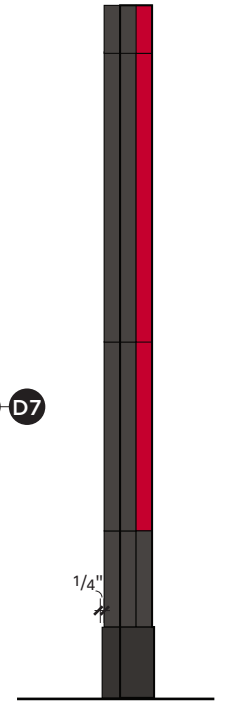
S2 Shuttle Stop Pylon



A P1- Top Elevation
1/2" = 1'-0"



B P1- Elevation
1/2" = 1'-0"



C P1- Elevation
1/2" = 1'-0"

P1 – PEDESTRIAN ORIENTATION

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL
2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

02 HEADER/ MESSAGE PANELS
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.

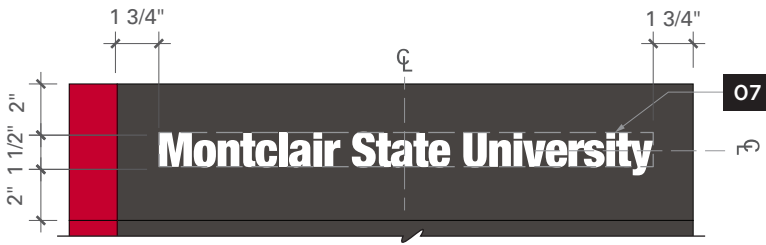
03 GRAPHICS
Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.

04 MAP ARTWORK
Digitally printed graphics. Artwork to be provided by Owner. Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.

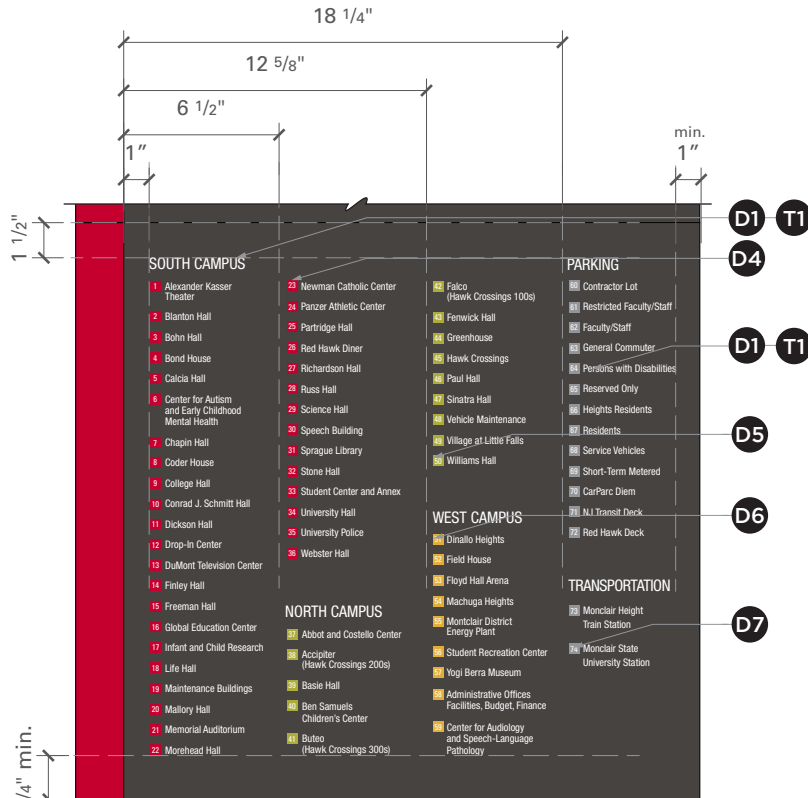
05 DISPLAY CASE
Clear polycarbonate pivoting door. Provide key locking hardware.

05 BASE
1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

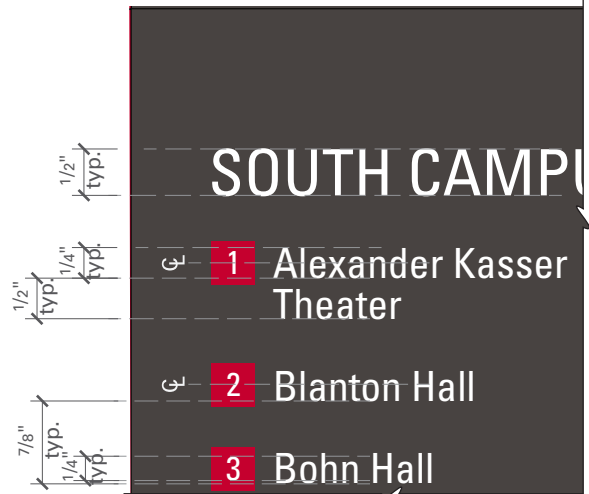
07 MSU BRAND
Surface applied vinyl graphics. Artwork to be provided by Designer. *NOTE: Coordinate artwork with updated brand, TBD by Owner.



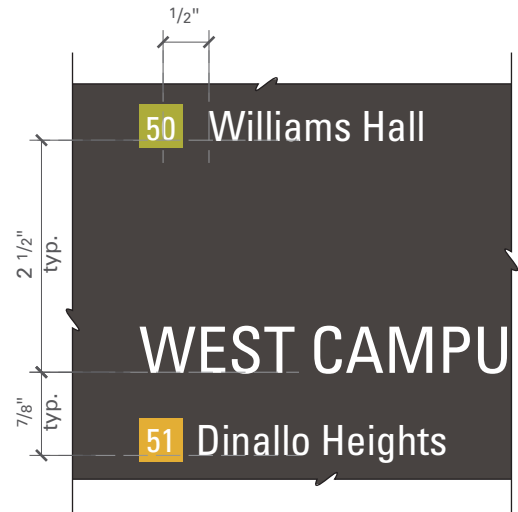
A G4- Graphic Elevation
1 1/2" = 1'-0"



B G4- Graphic Elevation
1 1/2" = 1'-0"

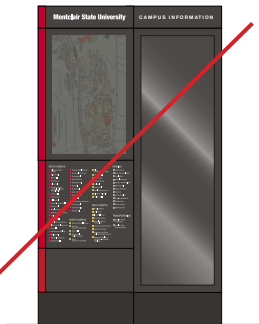


C G4- Partial Graphic Layout
1:2



D G4- Partial Graphic Layout
1:2

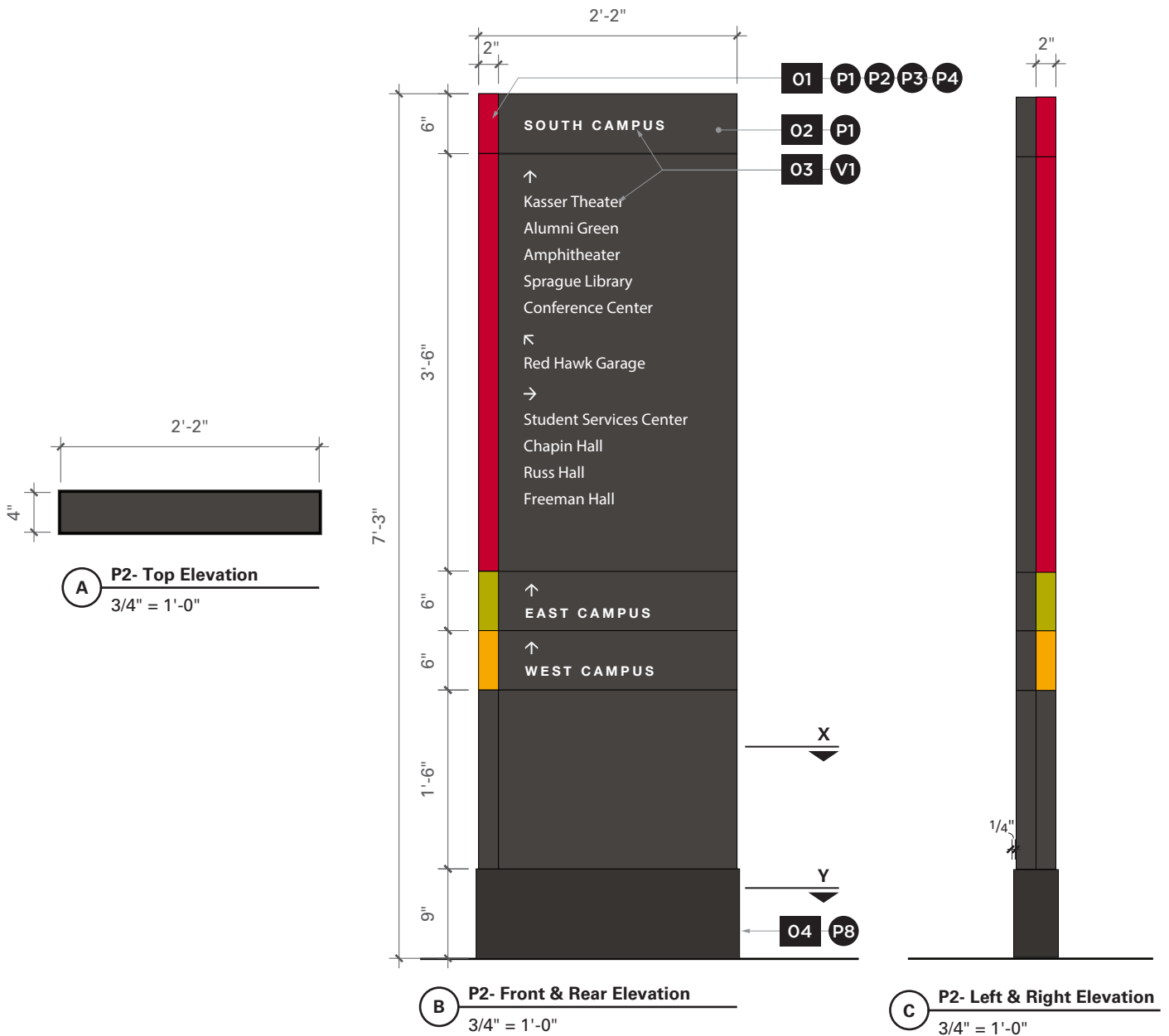
GRAPHIC DO'S & DON'TS



DO NOT apply Accent Color beyond information panels



DO NOT re-arrange information.



P2 - PEDESTRIAN DIRECTIONAL

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

03 GRAPHICS

Surface applied vinyl graphics.

02 HEADER/ MESSAGE PANELS

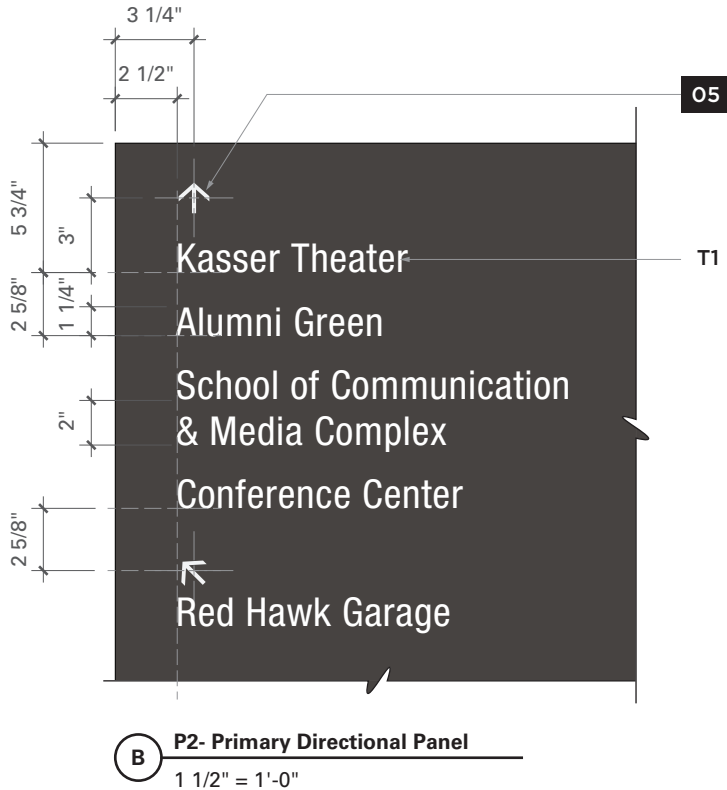
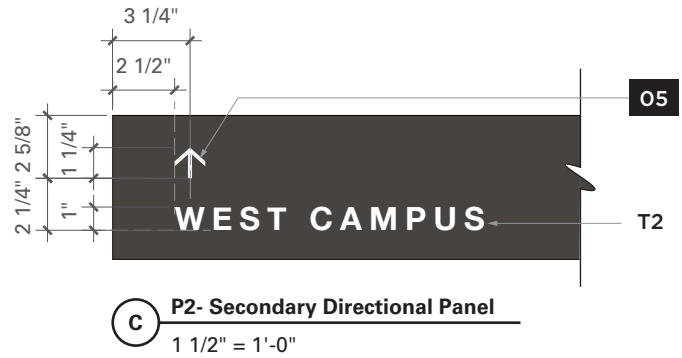
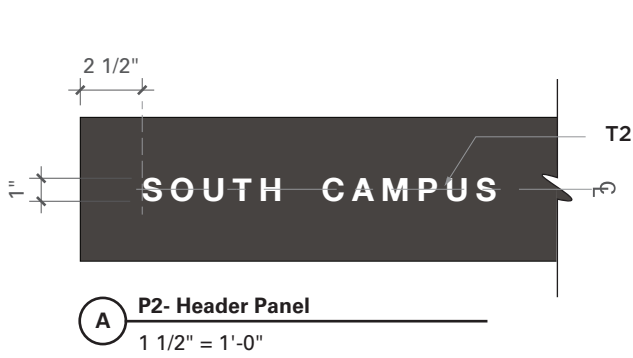
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.

04 BASE

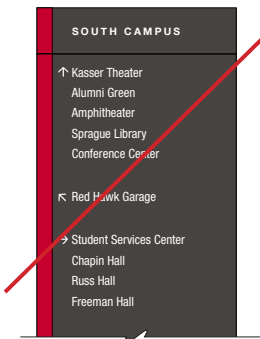
1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

05 ARROW

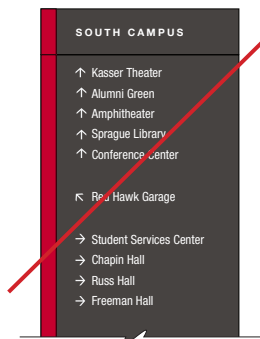
Surface applied vinyl graphics. Artwork to be provided by Designer.



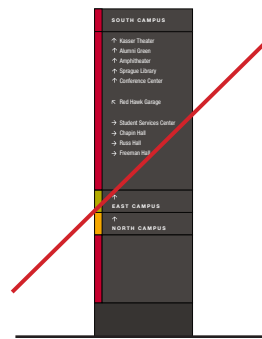
GRAPHIC DO'S & DON'TS



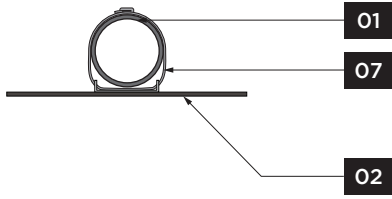
DO NOT adjust alignment of arrows and messages.



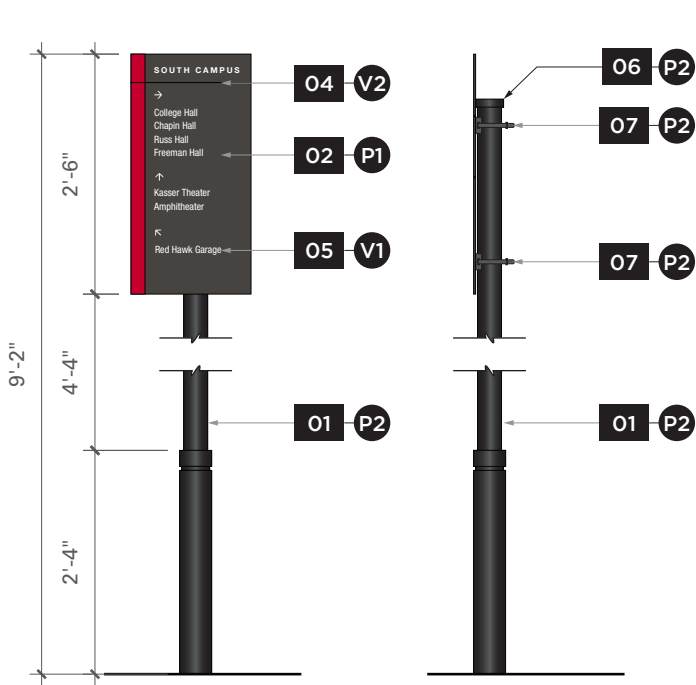
DO NOT place an arrow next to each message.



DO NOT apply Accent Color beyond panels with messages.

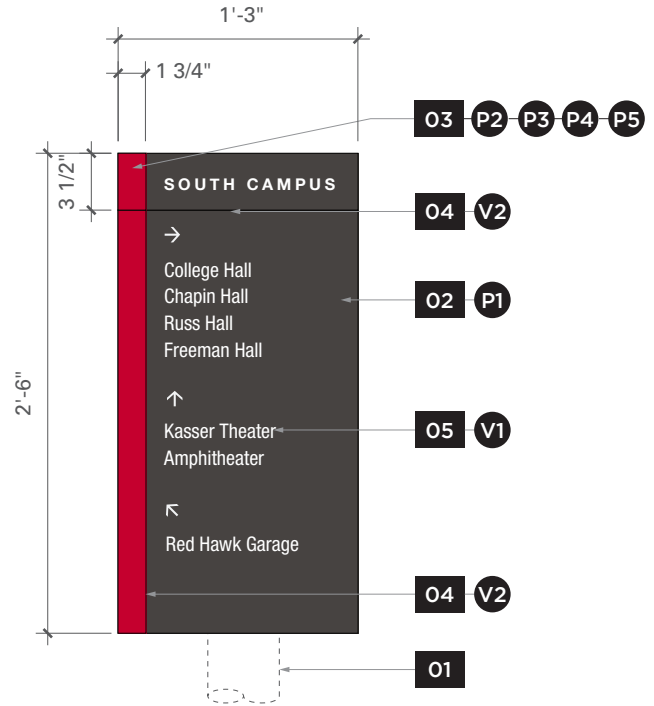


A P3- Plan
1" = 1'-0"



B P3- Front Elevation
1/2" = 1'-0"

C P3- Side Elevation
1/2" = 1'-0"



D P3- Front Elevation
1" = 1'-0"

P3 – PEDESTRIAN DIRECTIONAL

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 POLE
Round pole, varies in width and height.

06 POLE CAP
07 METAL STRAP ATTACHMENT
Stainless steel. Preformed hose clamps or strap banding. Attach with aluminum channel mounting bracket. Cut slit openings for threading metal straps.

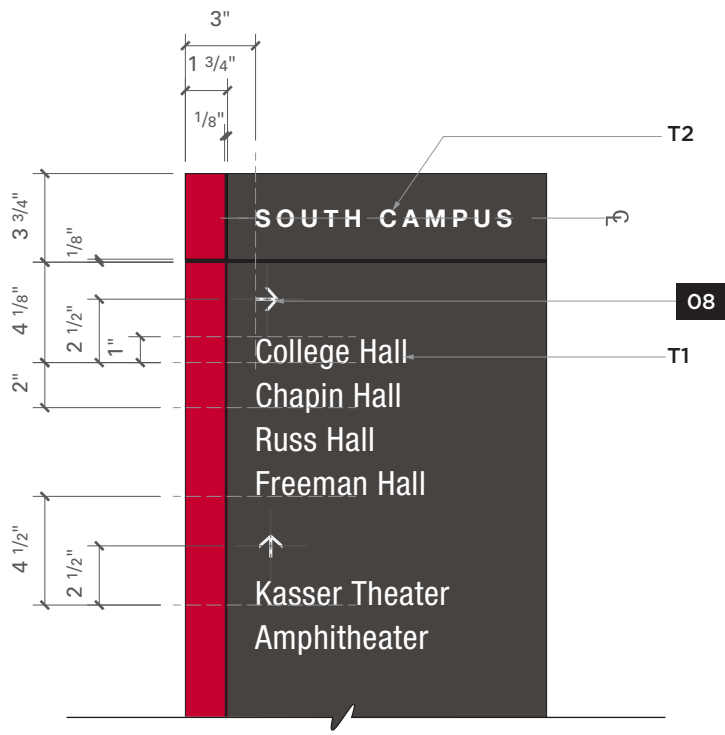
02 MESSAGE PANEL
1/4" thk. aluminum sheet, paint all exposed surfaces.

03 ACCENT COLOR
Mask and paint Message Panel.

08 ARROW
Surface applied vinyl, artwork to be provided by Designer.

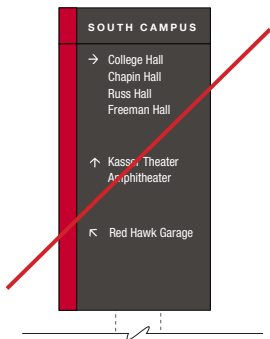
04 GRAPHIC RULES
1/8" w. surface applied vinyl.

05 MESSAGE
Surface applied vinyl copy.

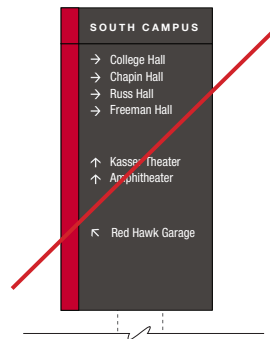


A P3- Directional Panel
1 1/2" = 1'-0"

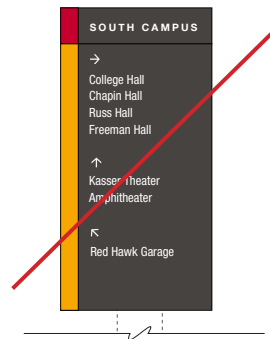
GRAPHIC DO'S & DON'TS



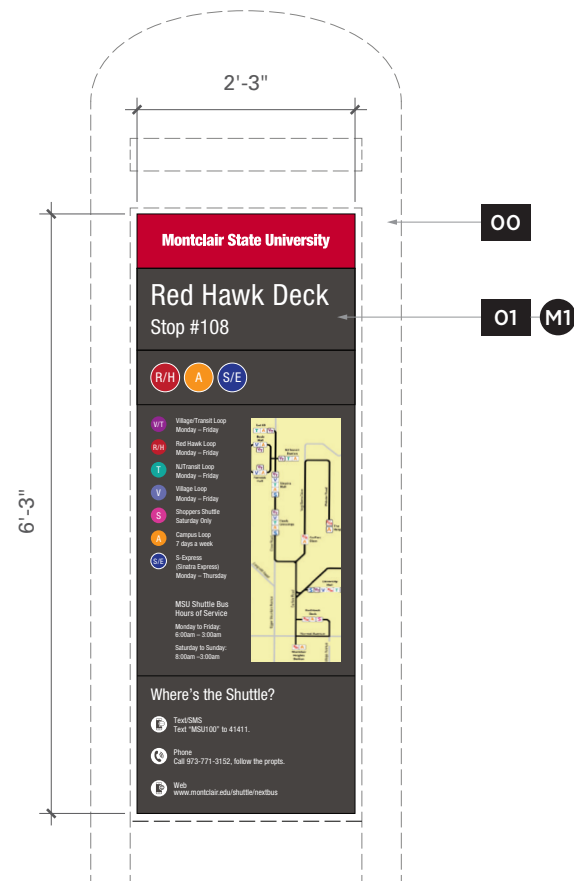
DO NOT adjust alignment of arrows and messages.



DO NOT place an arrow next to each message.



DO NOT mix Accent Colors



A S1- Front Elevation
1/2" = 1'-0"

S1 – SHUTTLE STOP (APPLIED)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

00 SHELTER (EXISTING)
Existing bus shelters, size and mounting conditions may vary.

01 MESSAGE PANEL
1/4" thk. aluminum sheet paint all exposed surfaces. Attach to Shelter (existing) using VHB tape or mechanically fasten with tamper resistant hardware, paint to match Message Panel.

02 MSU BRAND
Surface applied vinyl graphics. Artwork to be provided by Designer. *NOTE: Coordinate artwork with updated brand, TBD by Owner.

03A GRAPHICS
Surface applied vinyl graphics. Match color as noted.

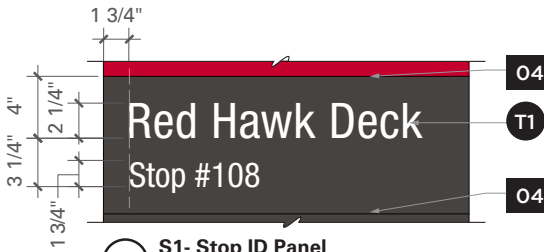
03B GRAPHICS
Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.

04 GRAPHIC RULES
1/8" w. surface applied vinyl.

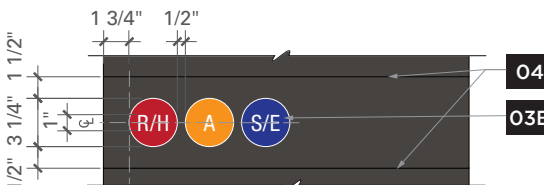
05 MAP ARTWORK
Artwork to be provided by Owner. Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.



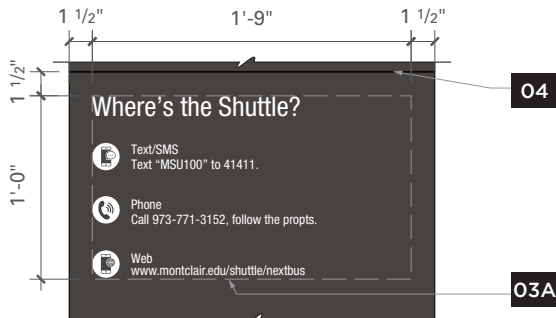
A S1- Header Panel
1" = 1'-0"



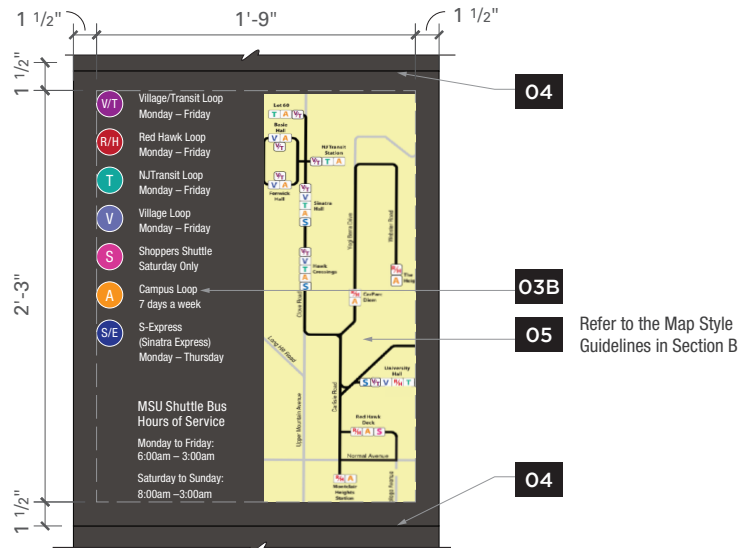
B S1- Stop ID Panel
1" = 1'-0"



C S1- Route ID Panel
1" = 1'-0"

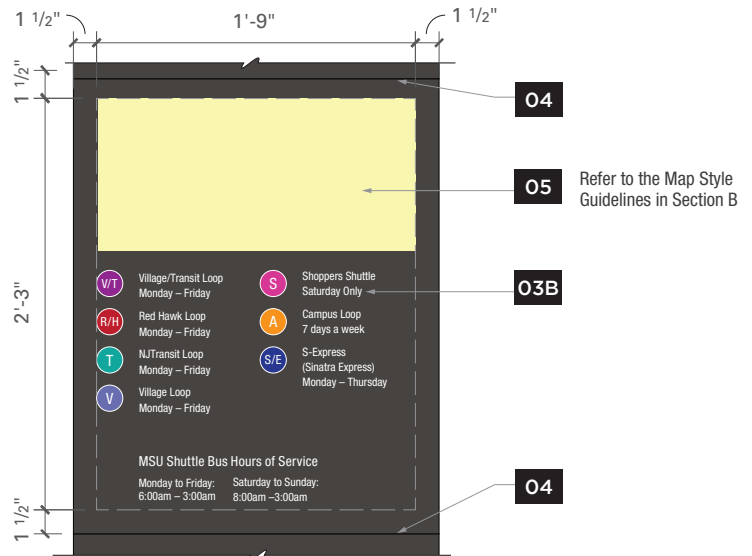


D S1- Info Panel
1" = 1'-0"



E S1- Route Map Panel (North/South Map)
1" = 1'-0"

Refer to the Map Style Guidelines in Section B



F S1- Route Map Panel (East/West Map)
1" = 1'-0"

Refer to the Map Style Guidelines in Section B

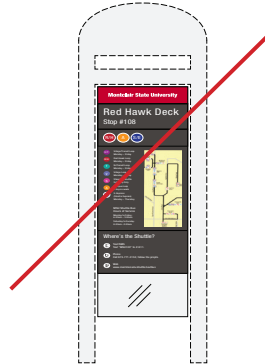
GRAPHIC DO'S & DON'TS



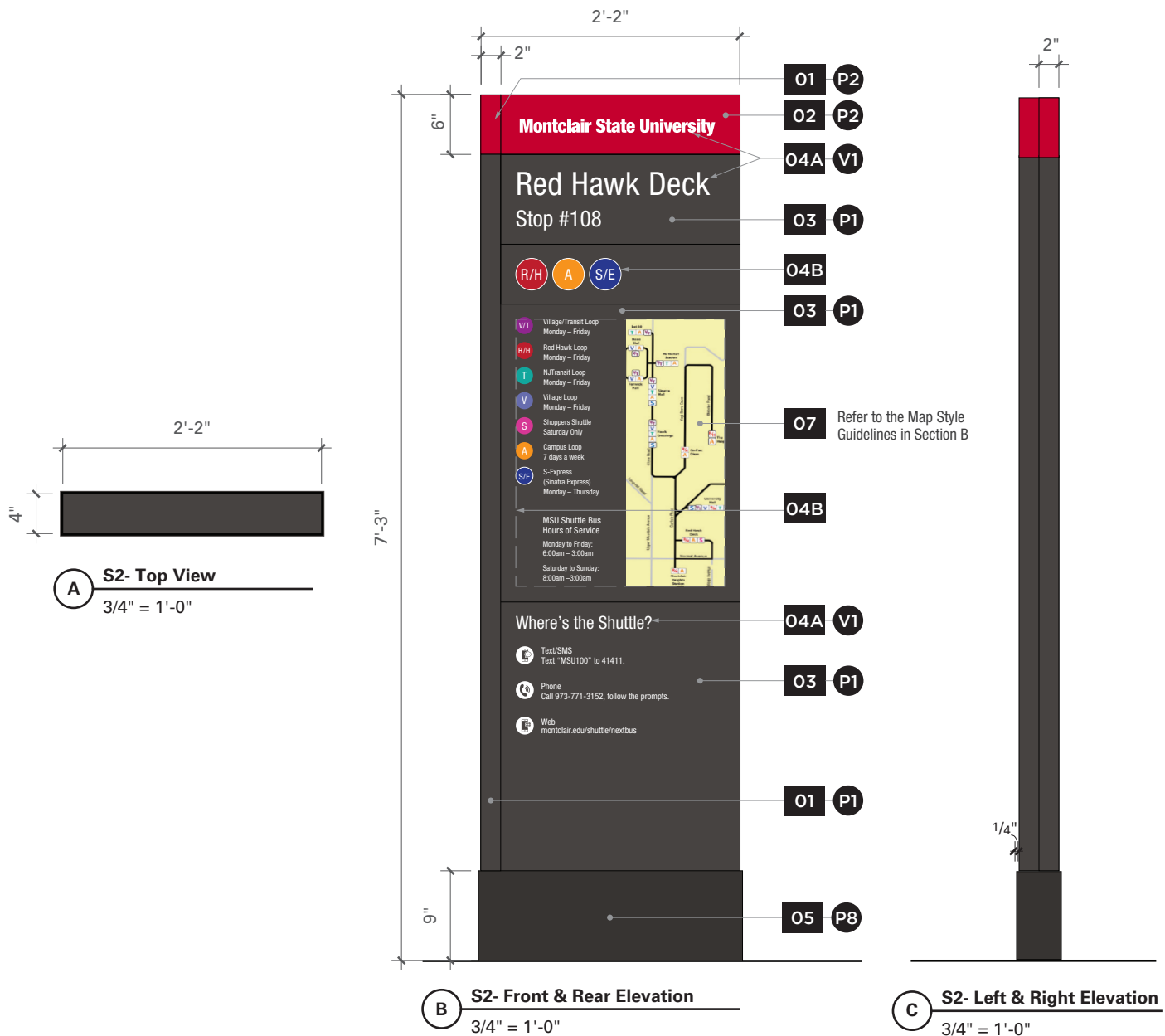
DO NOT apply unapproved brand color



DO NOT re-arrange messaging and information



DO NOT stretch the graphic horizontally or vertically. Always scale the graphics proportionally.



S2 – SHUTTLE STOP (PYLON)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

02 HEADER

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.

03 MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No fasteners to be visible in first surface.

04A GRAPHICS

Surface applied vinyl graphics. Match color as noted.

04B GRAPHICS

Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.

05 BASE

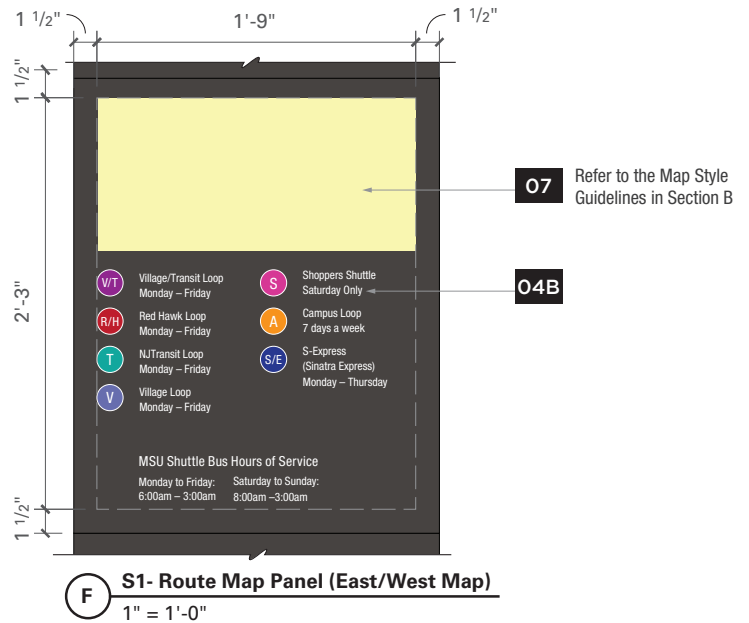
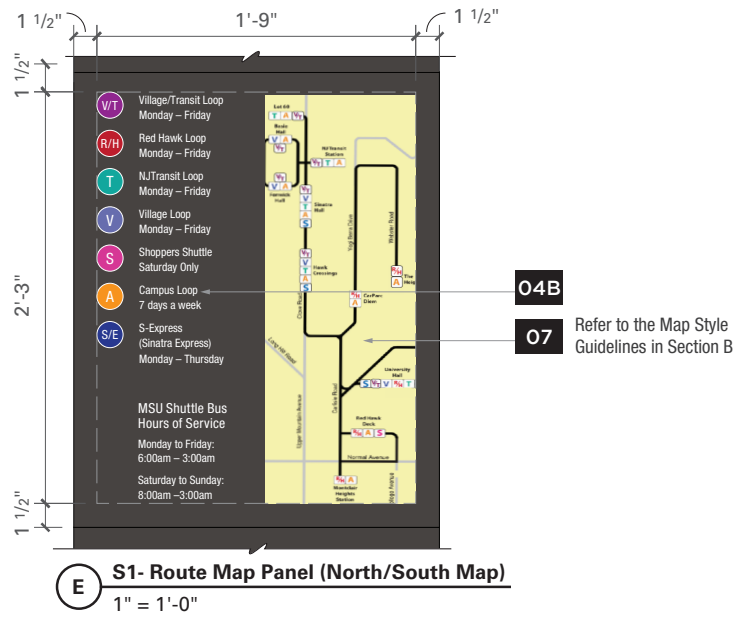
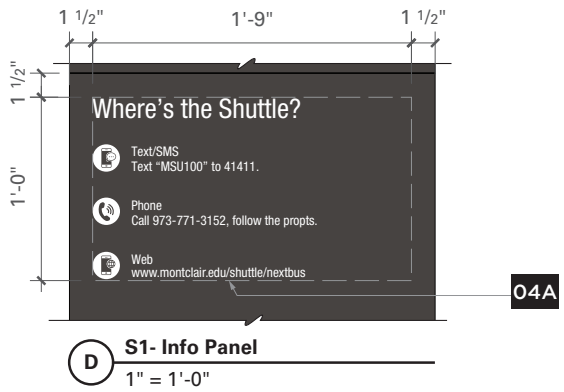
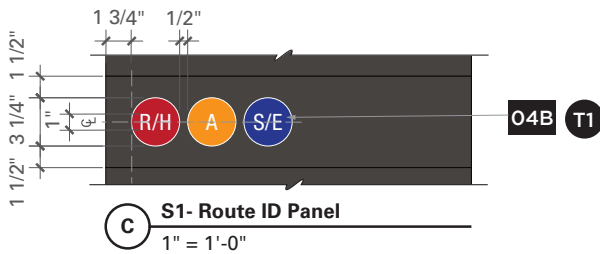
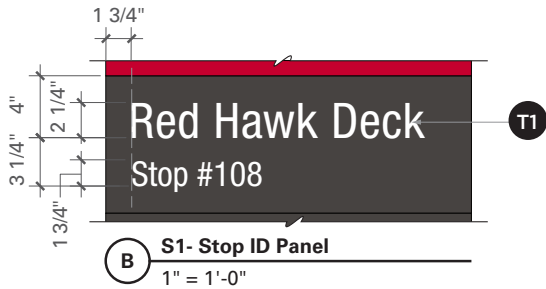
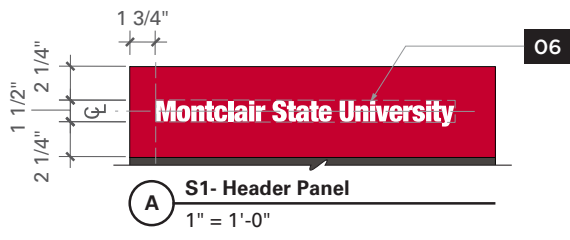
1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

06 MSU BRAND

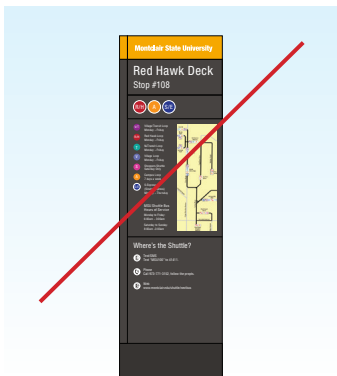
Surface applied vinyl graphics. Artwork to be provided by Designer. *NOTE: Coordinate artwork with updated brand, TBD by Owner.

07 MAP ARTWORK

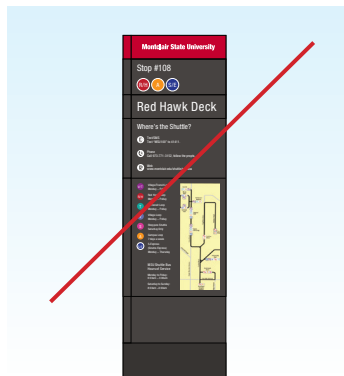
Artwork to be provided by Owner. Graphics to be single-sheet digitally printed clear vinyl applique adhered to face of panel; vinyl to be removed from face prior to replacement with new vinyl graphics, when required.



GRAPHIC DO'S & DON'TS



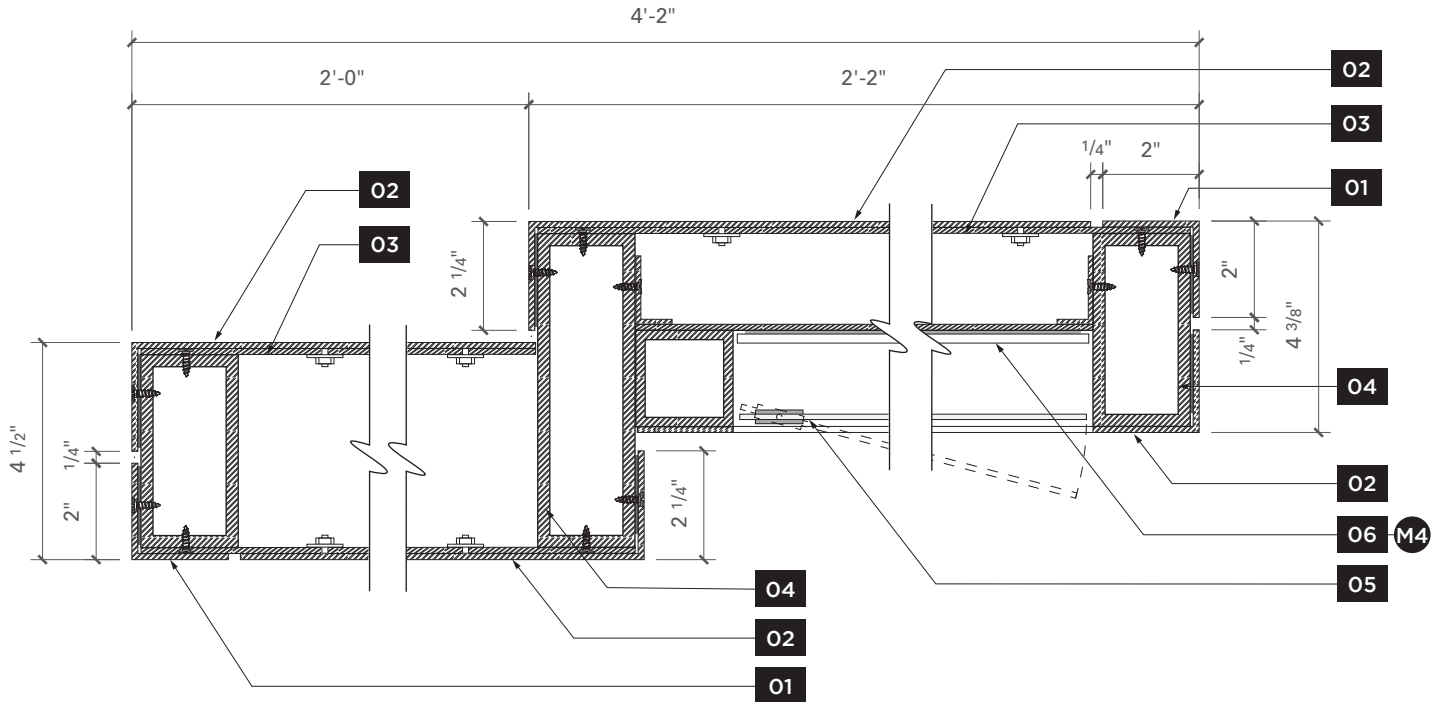
DO NOT apply unapproved brand color



DO NOT re-arrange messaging and information



DO NOT apply Accent Color on Corner Panel beyond brand header



X P1- Detail Section
 3" = 1'-0"

P1 – INFORMATION HUB

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

02 HEADER/ MESSAGE PANELS

1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary.

03 BACKER PANEL

1/8" thk. aluminum plate mechanically fastened to Structural Frame. Paint all exposed surfaces.

04 STRUCTURAL FRAME

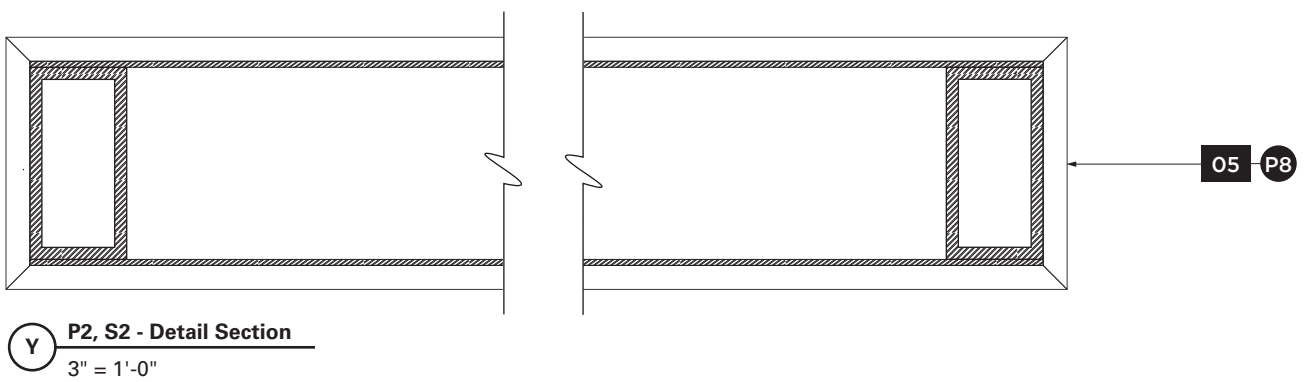
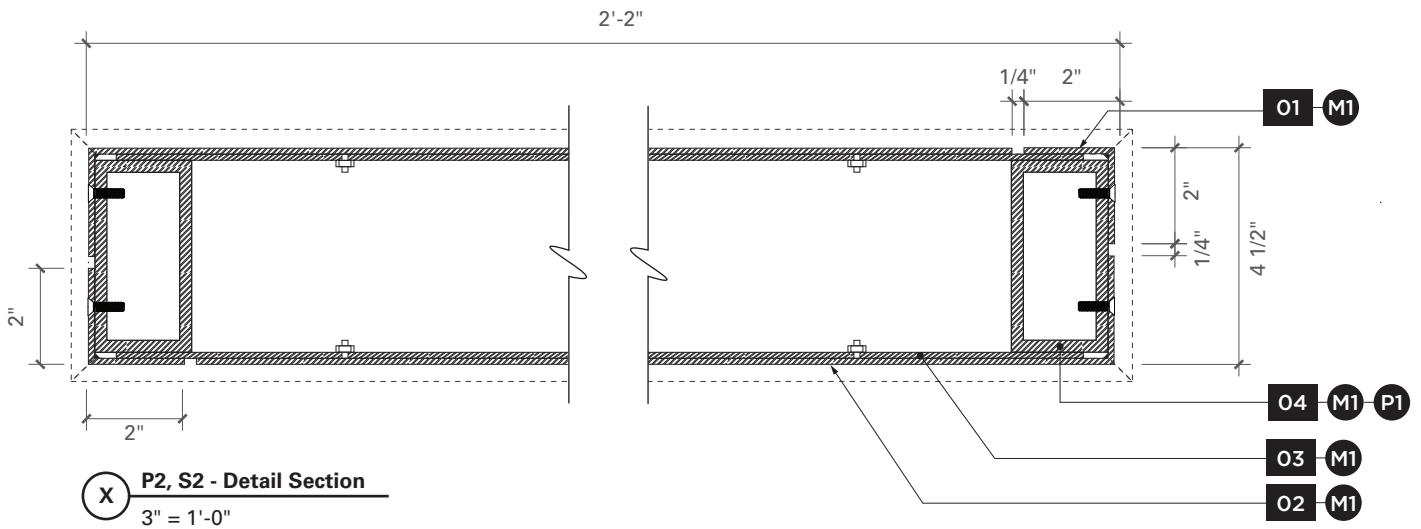
2" x 4" aluminum tube frame, welded to Base Frame. Design to be confirmed by Fabricator through engineering. Paint all exposed surfaces.

05 DISPLAY CASE DOOR

3/16" thk. clear polycarbonate panel, mounted to sign cabinet with top and bottom pivot hinges for glass doors. Provide a key-locking mechanism.

06 MESSAGE BOARD

1/4" thk. self-healing linoleum bulletin board sheet, mounted to sign cabinet with VHB tape.



P2, S2 – PEDESTRIAN DIRECTIONAL, SHUTTLE STOP PYLON

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 CORNER PANEL

2" x 2" x 1/8" aluminum angle painted, mechanically fastened to Structural Frame with countersunk fasteners. Color accents as per zone. Provide shims as necessary in order for first surface to be flush with Header Panel and Message Panels.

03 BACKER PANEL

1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

05 BASE

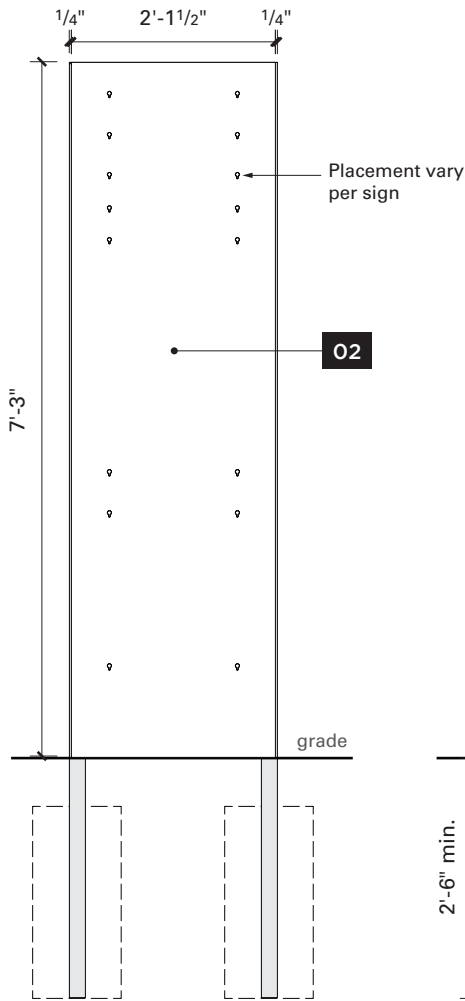
1/2" thk. aluminum plate. Miter corners at 45°. Mount to Backer Panel and Structural Frame with silicone adhesive. Match color/finish as noted.

02 HEADER/MESSAGE PANELS

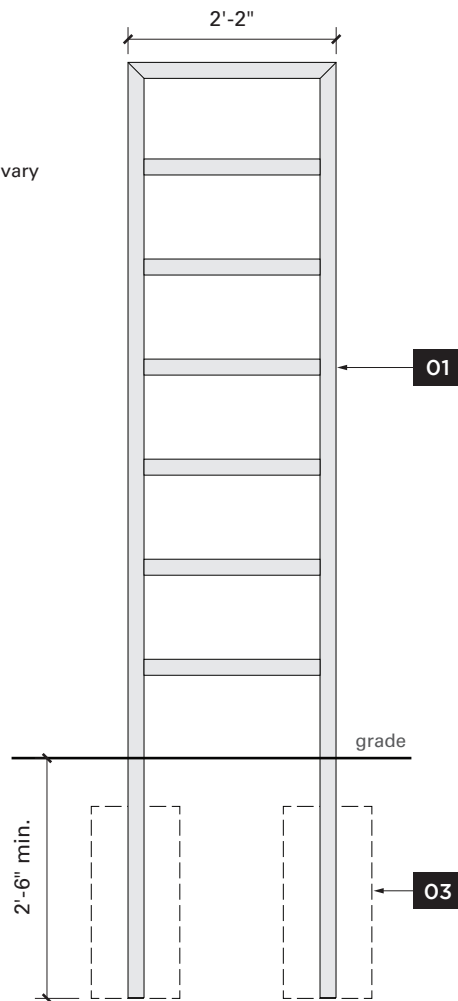
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary.

04 STRUCTURAL FRAME

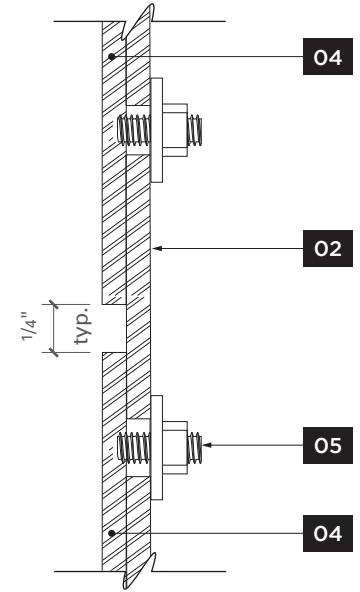
2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.



A P2, S2- Backer Panel Elevation
1/2" = 1'-0"



B P2, S2- Framing Elevation
1/2" = 1'-0"



C P2, S2- Typical Face Panel Detail
N.T.S.

P2, S2 – PEDESTRIAN DIRECTIONAL, SHUTTLE STOP PYLON

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

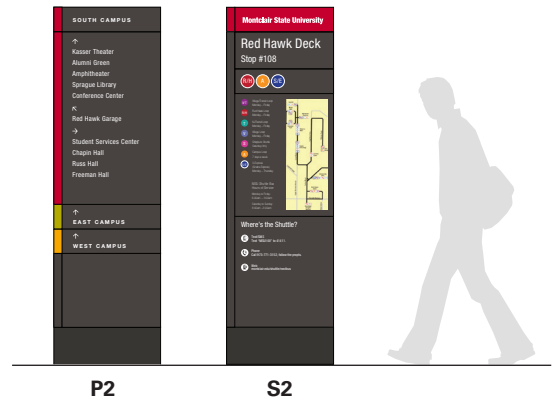
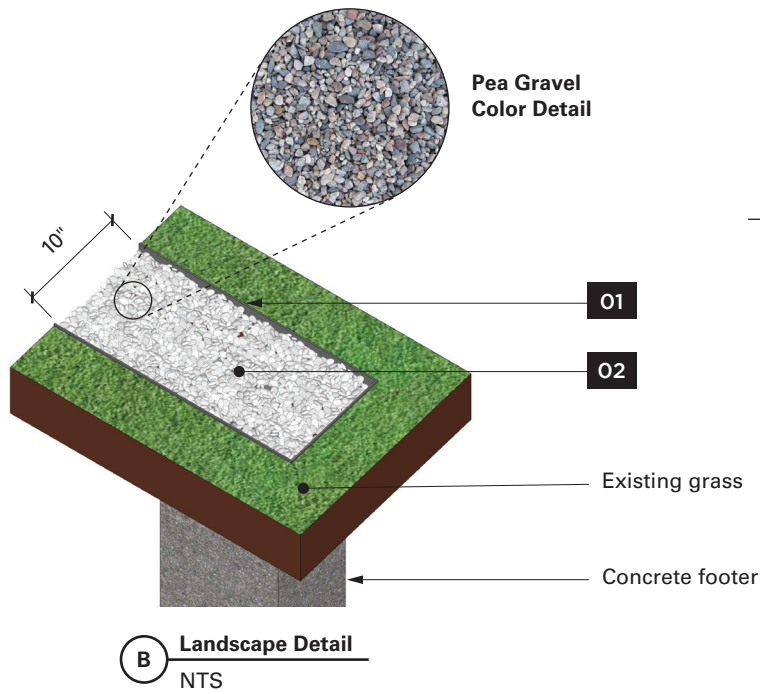
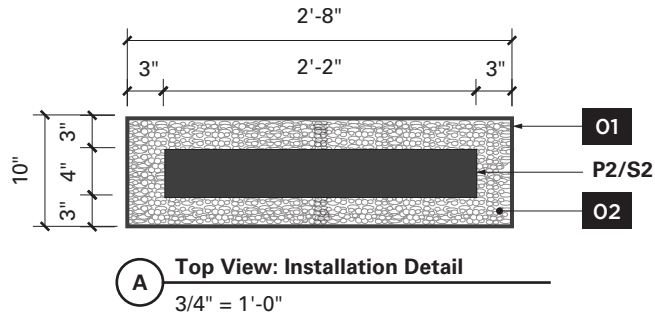
01 STRUCTURAL FRAME
2" x 4" aluminum tube, buried into cast reinforced sonotube concrete footers. Design/depth to be confirmed by Fabricator through engineering.

03 FOOTER
Cast reinforced sonotube concrete footers, to remain completely underground. Design to be confirmed by Fabricator through engineering.

05 BLIND STUDS
Message Panels to be drilled and tapped to receive threaded studs.

02 BACKER PANEL
1/8" thk. aluminum plate glued to Structural Frame. Pre-drill holes for mounting message panels. Paint all exposed surfaces.

04 MESSAGE PANELS
1/8" thk. aluminum plates, welded as L-shaped panels. To be mechanically attached to Structural Frame with countersunk fasteners and to Backer Panel with blind studs, as necessary. No visible fasteners on first surface.



P2, S2- INSTALLATION DETAIL (GRASS INSTALL)

GENERAL FABRICATION/GRAPHIC NOTES: It is recommended to install Pedestrian signs into mulch bed areas.

If a mulch bed area is not available and the sign must be installed into a grass area, then this detail must be utilized for proper grass installation.

01 LINE EDGING

Permaloc Clean Line Edging
3/16" x 4" aluminum edging
Bronze Duraflex

02 PEA GRAVEL

3/8" grey pea gravel.

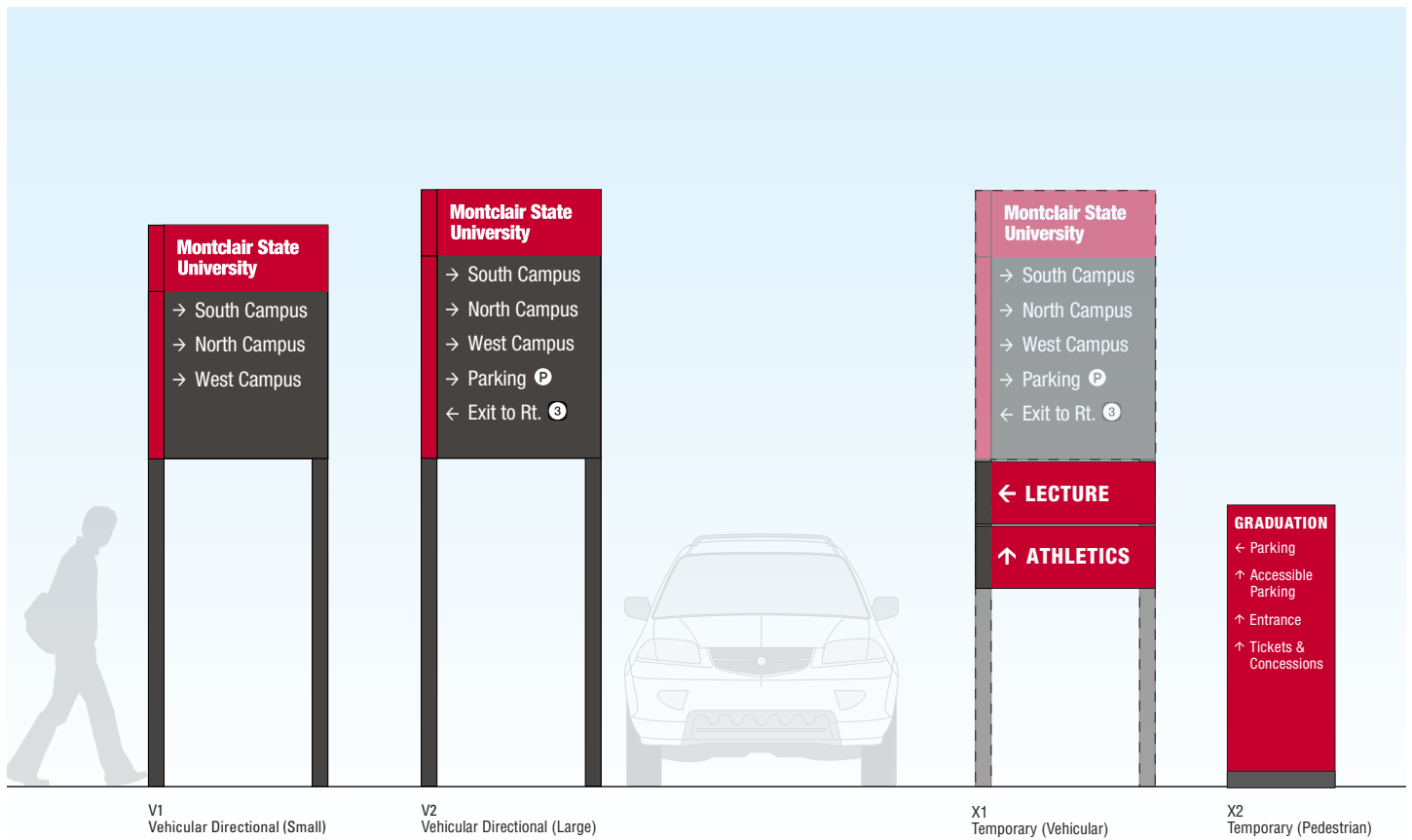
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PART 2, SECTION F

EXTERIOR SIGNAGE

Vehicular Directionals & Temporary

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SCALE 1/4"=1'-0"



V1 - VEHICULAR DIRECTIONAL

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 MESSAGE PANEL

1/8" thk. aluminum plates, attached to Structural Frame with VHB Tape. To be masked and painted as per drawings.

05 VERTICAL SUPPORTS

4" sq. aluminum tubing, painted. Design to be confirmed by Fabricator through engineering.

02 BACK PANEL

1/8" thk. aluminum plates, attached to Structural Frame with VHB Tape. To be masked and painted as per drawings.

06 MSU BRAND

Surface applied vinyl graphics. Artwork to be provided by Designer.
*NOTE: Coordinate artwork with updated brand, TBD by Owner.

03 REFLECTIVE GRAPHICS

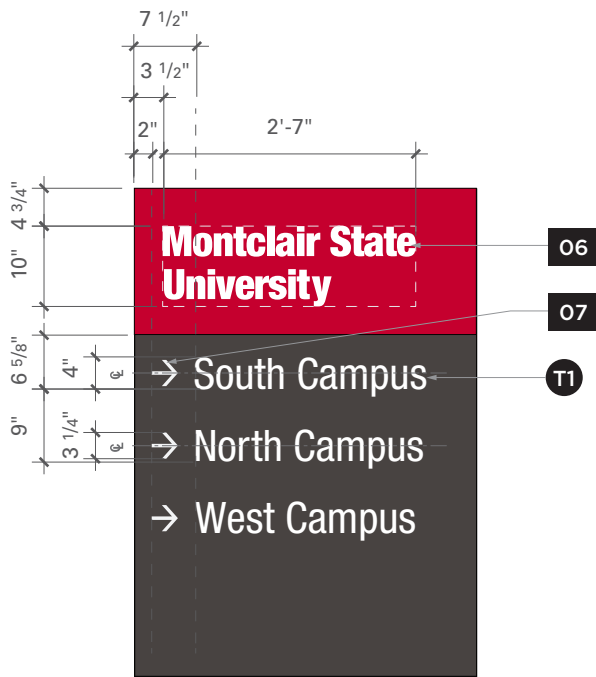
Surface applied reflective vinyl graphics.

07 ARROW

Surface applied vinyl graphics. Artwork to be provided by Designer.

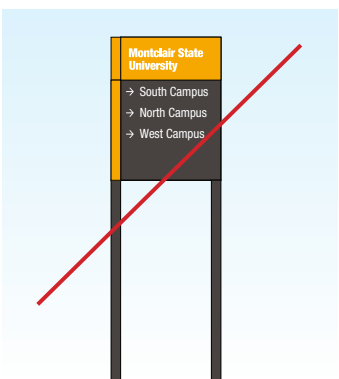
04 GRAPHICS

Surface applied vinyl graphics.

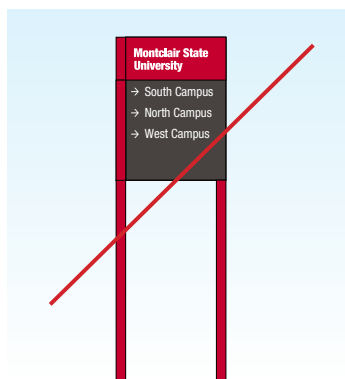


A V1- Graphic Elevation
1/2" = 1'-0"

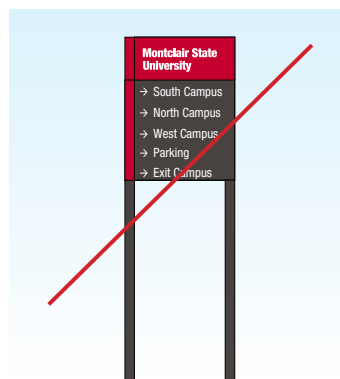
GRAPHIC DO'S & DON'TS



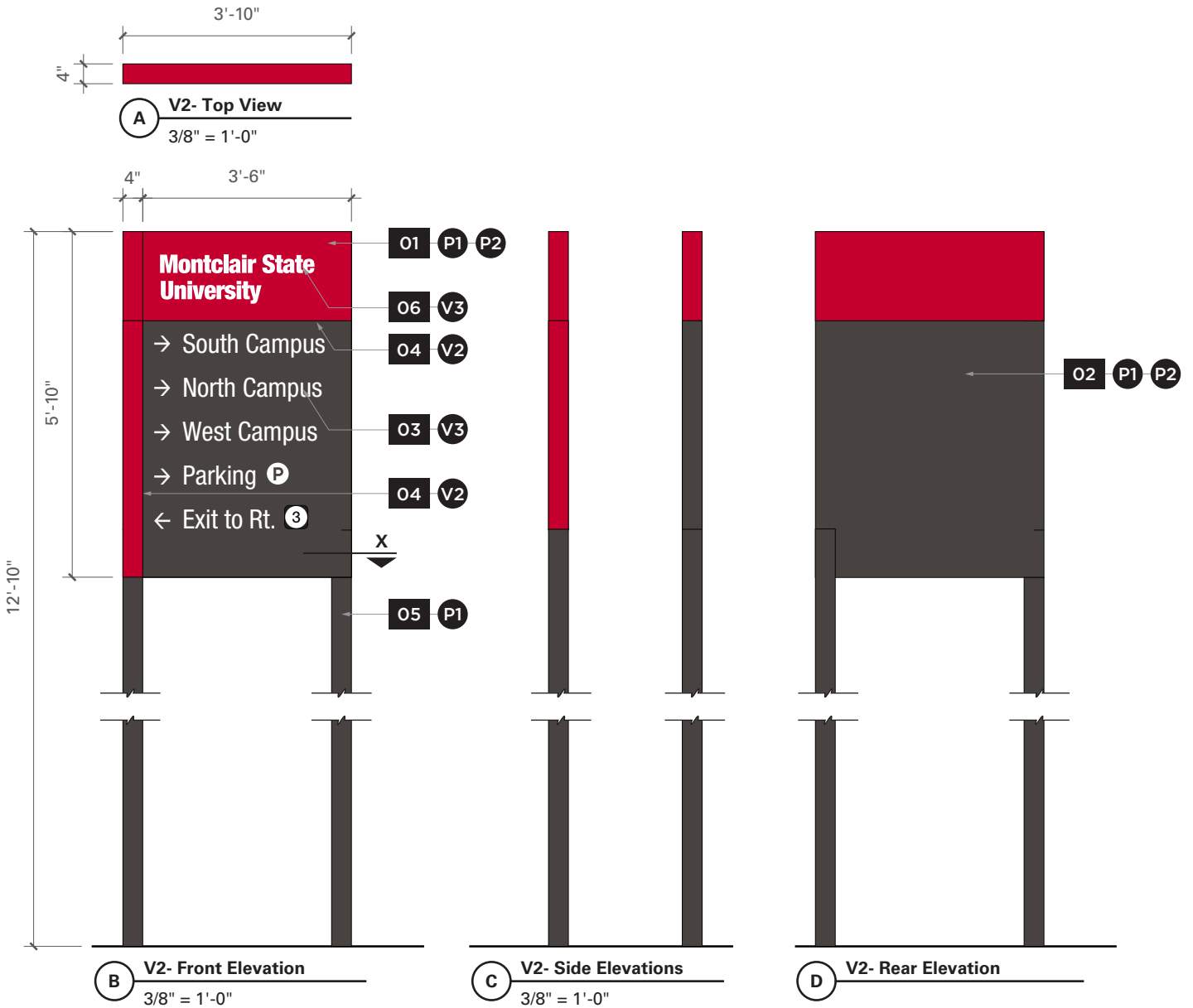
DO NOT apply an unapproved brand color.



DO NOT apply color to leg supports



DO NOT list more than 3 messages per sign.



V2 - VEHICULAR DIRECTIONAL (LARGE)

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 MESSAGE PANEL

1/8" thk. aluminum plates, attached to Structural Frame with VHB Tape. To be masked and painted as per drawings.

05 VERTICAL SUPPORTS

4" sq. aluminum tubing, painted. Design to be confirmed by Fabricator through engineering.

08 PARKING SYMBOL

Surface applied reflective vinyl graphics. Artwork to be provided by Designer.

02 BACK PANEL

1/8" thk. aluminum plates, attached to Structural Frame with VHB Tape. To be masked and painted as per drawings.

06 MSU BRAND

Surface applied vinyl graphics. Artwork to be provided by Designer.
*NOTE: Coordinate artwork with updated brand, TBD by Owner.

09 RT.3 SYMBOL

Surface applied reflective vinyl graphics. Artwork to be provided by Designer.

03 REFLECTIVE GRAPHICS

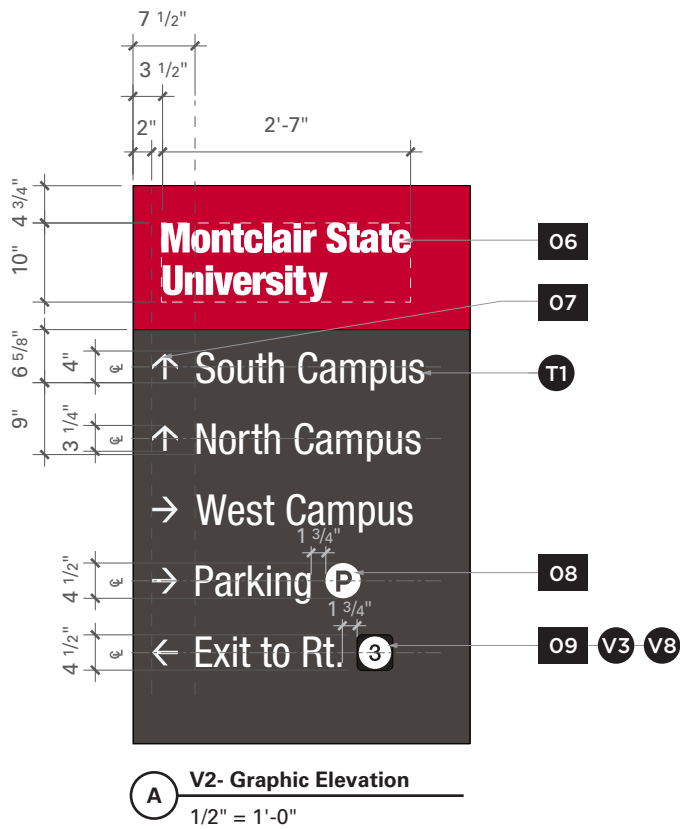
Surface applied reflective vinyl graphics.

07 ARROW

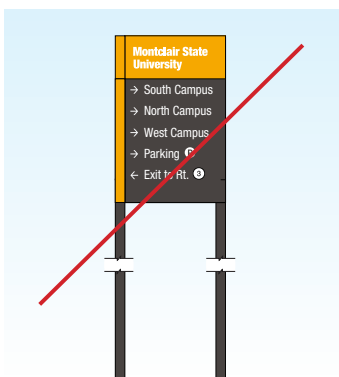
Surface applied reflective vinyl graphics. Artwork to be provided by Designer.

04 HEADER ACCENT VINYL

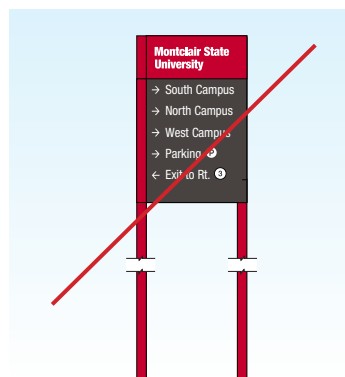
Surface applied reflective vinyl graphics.



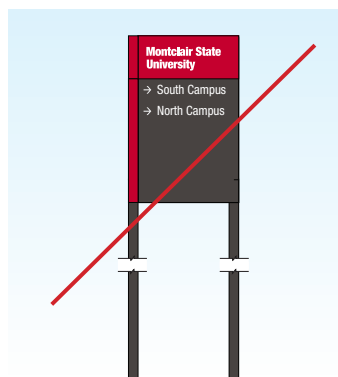
GRAPHIC DO'S & DON'TS



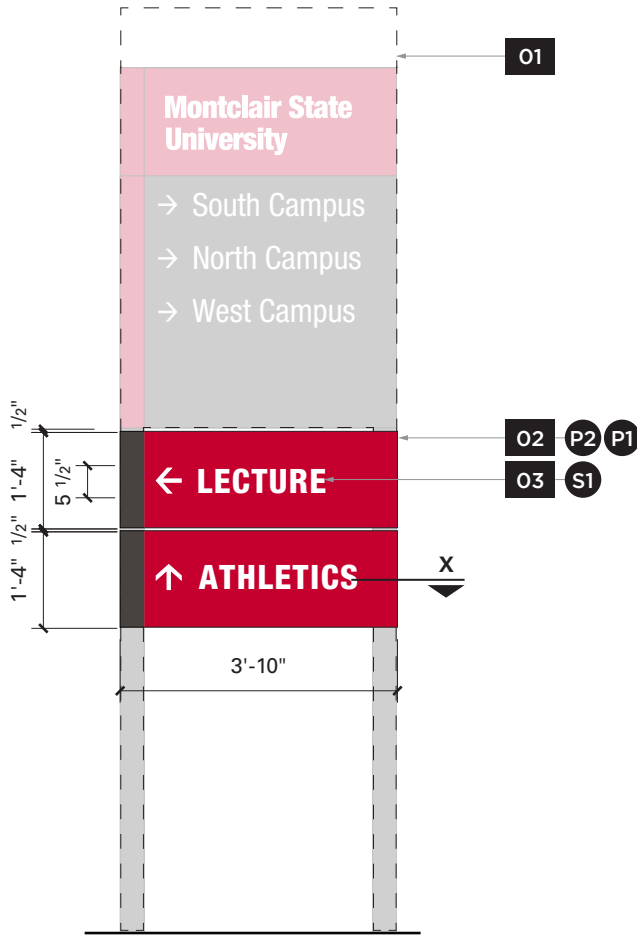
DO NOT apply an unapproved brand color.



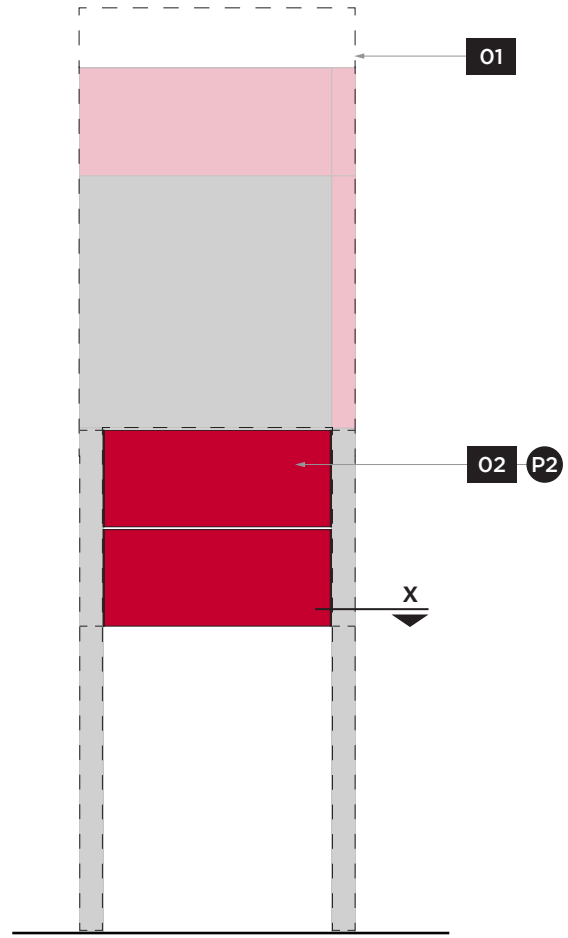
DO NOT apply color to Vertical Supports



DO NOT list fewer than 4 messages per sign. Use V1 if fewer than 4 messages.
No more than 5 listings on V2.



A X1- Front Elevation
3/8" = 1'-0"



B X1- Rear Elevation
3/8" = 1'-0"

X1 - TEMPORARY SIGNAGE

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 VEHICULAR DIRECTIONAL
Vehicular directional sign, small (V1) or large (V2), as per this manual.

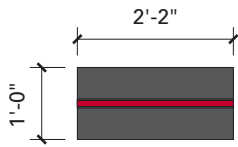
03 GRAPHICS
Surface applied vinyl graphics.

02 TEMPORARY MESSAGE PANEL
3/8" thk. acrylic plate, painted. Attach to vertical supports of Vehicular Directional sign with Keyhole Plate on second surface. Rout panel so Keyhole Plate is flush with surface. Drill aluminum Vertical Supports to receive appropriate fasteners, paint fasteners to match Vertical Supports.

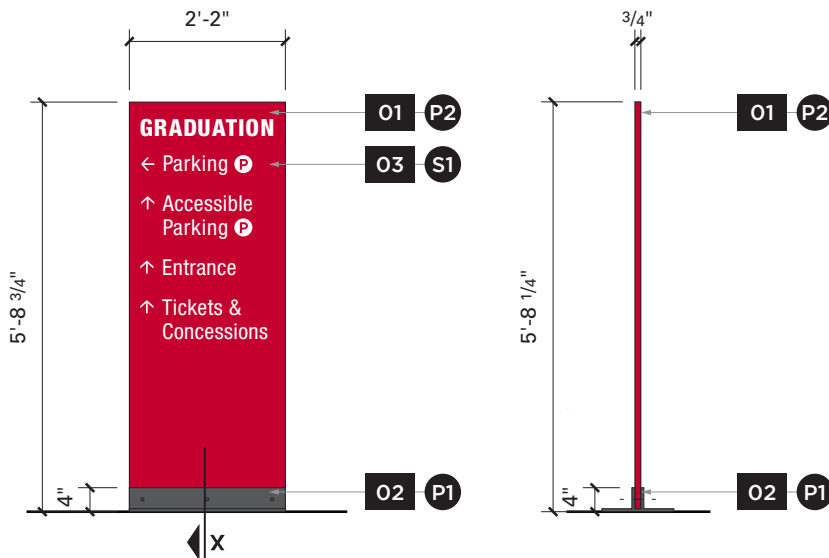
04 ARROW SYMBOL
Surface applied vinyl graphics. Artwork to be provided.



A X1- Graphic Layout
1 1/2" = 1'-0"



A X2- Top View
3/8" = 1'-0"



B X2- Front/Rear Elevation
3/8" = 1'-0"

C X2- Side Elevation
3/8" = 1'-0"

X2 - TEMPORARY SIGNAGE

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

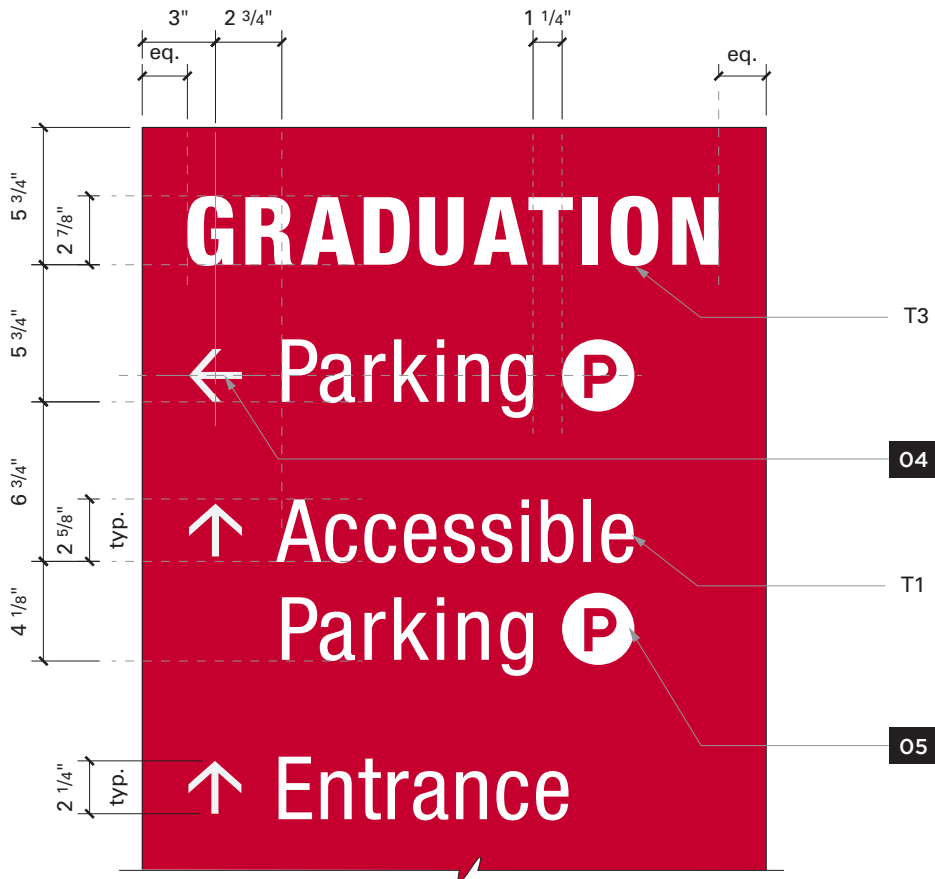
01 TEMPORARY MESSAGE PANEL
3/4" thk. acrylic plate, painted. Attach to Support Base with stainless steel fasteners.

03 GRAPHICS
Surface applied vinyl graphics.

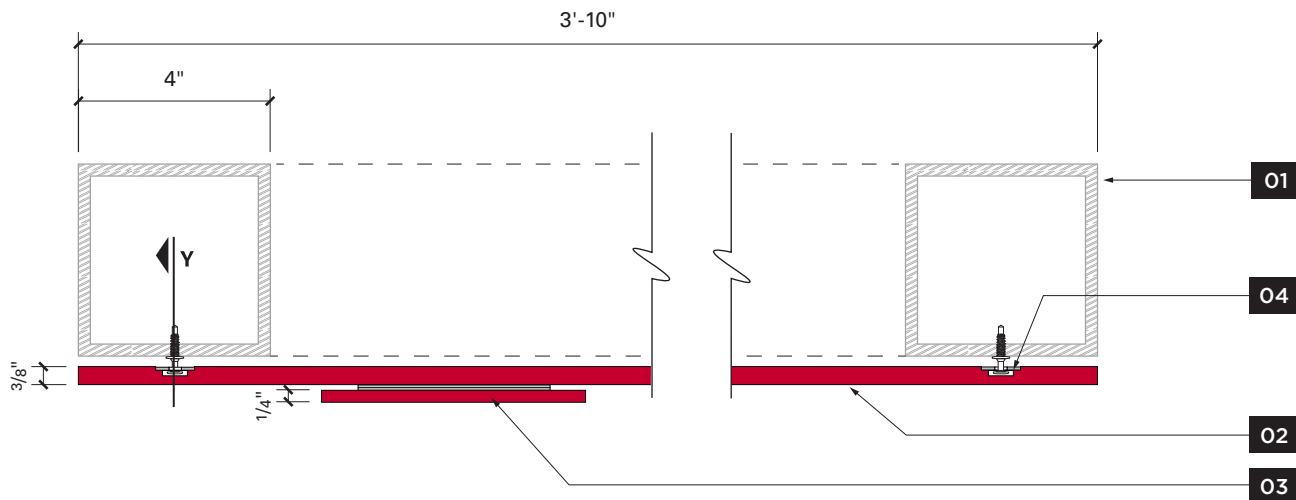
02 SUPPORT BASE
Fabricated steel base, painted. Drill and tap to receive stainless steel fasteners. Secure Message Panel with wing nuts. Provide rubber gasket adhered to bottom surface.

05 ARROW SYMBOL
Surface applied vinyl graphics. Artwork to be provided.

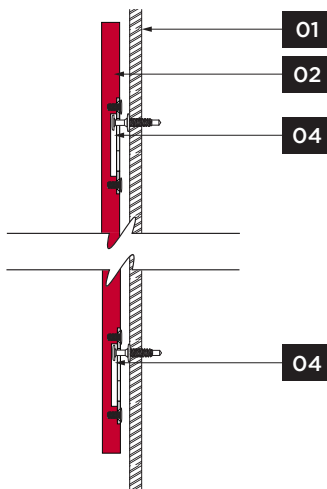
05 PARKING SYMBOL
Surface applied vinyl graphics. Artwork to be provided.



A X2- Graphic Layout
 1 1/2" = 1'-0"



X X1 - Detail Section
3" = 1'-0"



Y X1 - Detail Section
3" = 1'-0"

X2 - TEMPORARY SIGNAGE

GENERAL FABRICATION/GRAPHIC NOTES Field verification of each sign location and site conditions will be required prior to fabrication.

01 VEHICULAR DIRECTIONAL

Vertical Support aluminum posts of Vehicular directional sign, small (V1) or large (V2), as per this manual. Drill to receive fasteners to support Keyhole Plate. Paint fasteners to match Vertical Supports.

02 TEMPORARY MESSAGE PANEL

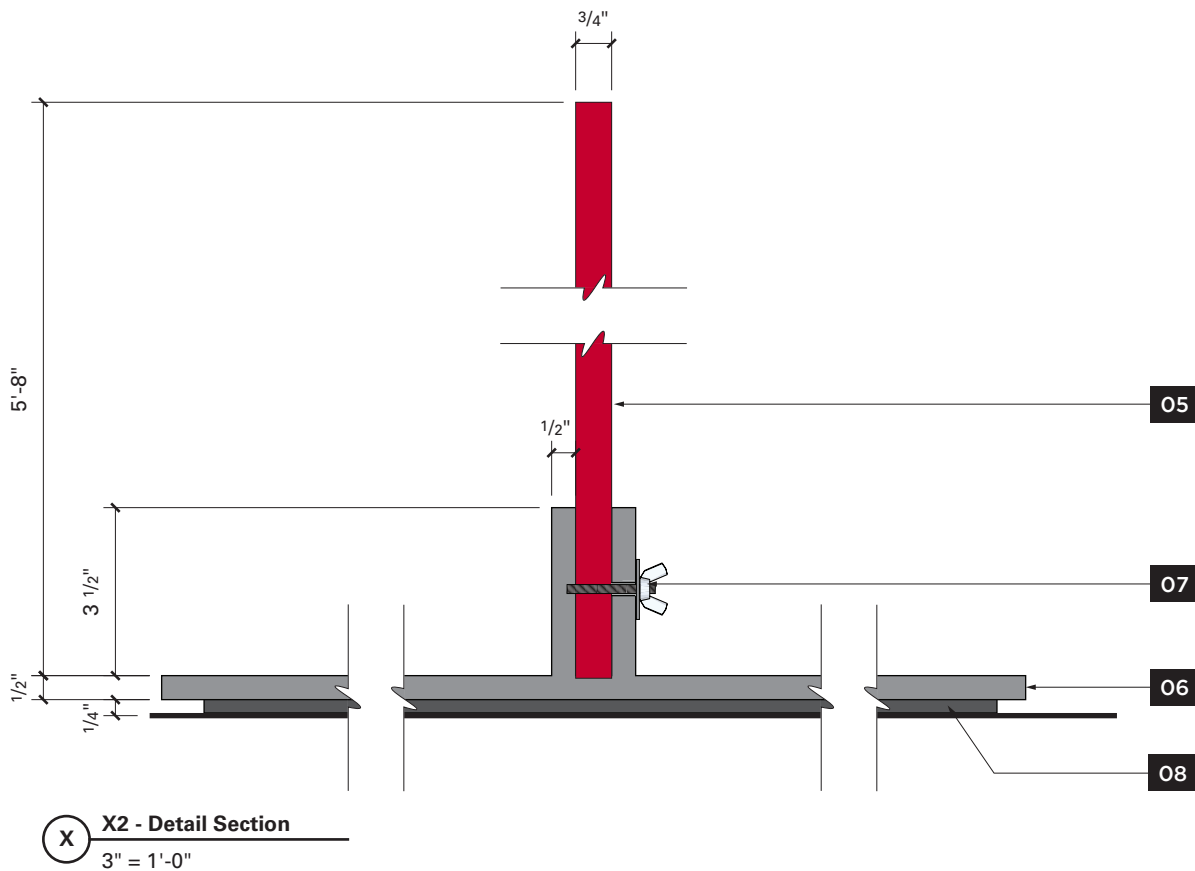
3/8" thk. acrylic plate, painted. Attach to vertical supports of Vehicular Directional sign with Keyhole Plate on second surface. Rout panel so Keyhole Plate is flush with surface.

03 ARROW PANEL

Removable acrylic panel, painted, with surface applied vinyl graphics. Attach to Temporary Message Panel with velcro or approved similar.

04 KEYHOLE PLATE

Keyhole Plate mechanically fastened to second surface of Message Panel. Panel to be routed so Keyhole Plate is flush with surface.

**05 TEMPORARY MESSAGE PANEL**

3/4" thk. acrylic plate, painted. Attach to Support Base with stainless steel fasteners.

07 FASTENERS

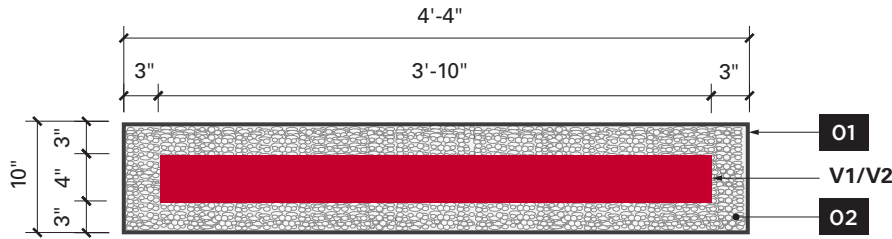
Stainless steel fasteners. Secure Message Panel with stainless steel wing nuts.

06 SUPPORT BASE

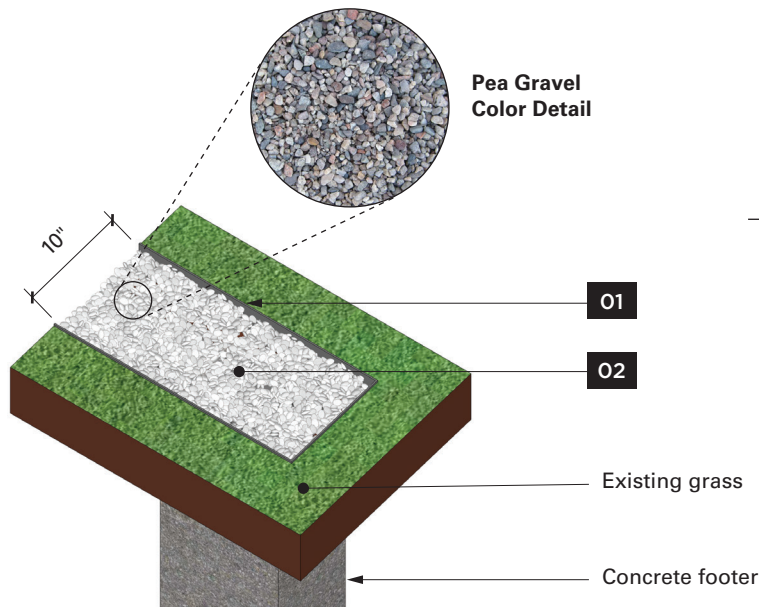
Fabricated steel base, painted. Drill and tap to receive stainless steel fasteners. Secure Message Panel with wing nuts. Provide rubber gasket adhered to bottom surface.

08 RUBBER GASKET

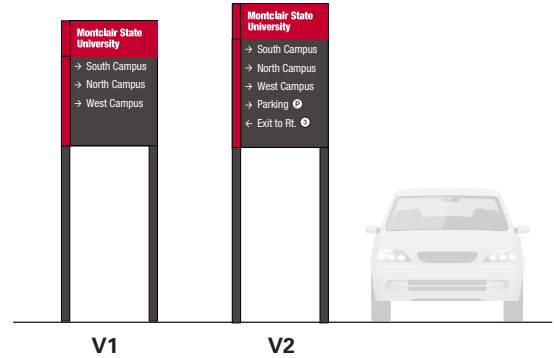
1/4" thk. neoprene gasket, adhered to bottom surface of Support Base.



A Top View: Installation Detail
NTS



B Landscape Detail
NTS



V1, V2- INSTALLATION DETAIL (GRASS INSTALL)

GENERAL FABRICATION/GRAPHIC NOTES: It is recommended to install Vehicular signs into mulch bed areas.

If a mulch bed area is not available and the sign must be installed into a grass area, then this detail must be utilized for proper grass installation.

01 LINE EDGING

Permaloc Clean Line Edging
3/16" x 4" aluminum edging
Bronze Duraflex

02 PEA GRAVEL

3/8" grey pea gravel.

PART 3, SECTION A

General Specifications

1.00 PROJECT DESCRIPTION

In 2015, Montclair State University assessed the manner in which it moves people between, around and through its campuses to develop a new wayfinding strategy. Montclair State University engaged Exit Design, a Philadelphia-based design firm, to evaluate its campus wayfinding, access and usability.

The University’s visual identity system and image was translated to a new, aesthetically distinct, affordable and easily maintainable design package. New exterior signage design standards were developed. The new standards outline guidelines for signage locations, keeping in mind that campus beautification efforts include minimizing the quantity of signage in the campus landscape.

The new sign system promotes the Montclair State University commitment to standardization, yet provides the flexibility to respond to the variety of campus conditions.

Sign Type Numbering System

The “Sign Type Numbering System” is designed to assist in specifying each sign type. The numbers help organize the signs by function, layout and product category.

The system is organized as follows:

B1	Building Identification (On Campus)
B2	Building Identification (Off Campus)
B3	Building Identification (Dimensional Letters)
B4	Building Identification (Vinyl Letters)
F1	Campus Marker Banners (Existing Pole)
F2	Campus Marker Banners (New Pole)
F3	Campus Gateway Lettering
G1	Garage Identification (Flag With LED Display)
G2	Garage Clearance Bar
G3	Garage Parking Rates
G4	Garage Orientation Panel
L1	Parking Lot Directional
L2	Parking Lot Identification
L3	Parking Lot Identification (Pole Mounted)
P1	Pedestrian Orientation
P2	Pedestrian Directional
P3	Pedestrian Directional (Pole Mounted)
S1	Shuttle Stop (Applied)
S2	Shuttle Stop Pylon
V1	Vehicular Directional (Small)
V2	Vehicular Directional (Large)
X1	Temporary/Event (Vehicular)
X2	Temporary/Event (Pedestrian)

2.00 INCLUDED WORK

- A. Site verification, fabrication, delivery and installation of all sign types and quantities indicated in the final approved Copy List and Location Plan. Fabricator to verify the sign quantities from the Copy List and Location Plans and if discrepancies exist, notifying the Designer of any such discrepancies.
- B. Work shall include all support structures and fasteners required for installation.
- C. Work shall include all design engineering needed to produce the project to comply with all applicable municipal, state and federal code and structural soundness.
- D. Fabricator to provide all services, subcontractors, labor, materials and equipment needed to complete the work described in this design drawings and specifications document.
- E. Upon award of the bid, the selected Fabricator shall arrange a meeting with the Designer to review the scope of work.
- F. Fabricator shall visit site before construction begins and inspect each proposed sign location. Any issues or concerns shall be communicated to the Designer in writing within 24 hours.
- G. Fabricator will be responsible for generating evacuation maps at all programmed locations based on template provided by Designer.
- H. At the completion of the project the Fabricator shall perform a walk-through with the Designer and Owner to inspect the installation and create a punch list of all unsatisfactory items.
- I. Fabricator is responsible for removal of any existing signage within the project scope area. This includes any patching and repairing required at these locations.

3.00 WORK QUALITY

- A. All work to be done in a professional manner and to the highest trade standards.
- B. Fabricator is responsible for insuring the quality standards above for all related professional and trade subcontracted work including: general carpentry, masonry, electrical, landscaping, or utilities required for the installation of all sign types as described, unless otherwise agreed to by Owner. All subcontracted work must meet the general accepted professional standards.

4.00 SUBMITTALS

4.01 SHOP DRAWINGS

Submit one (1) set of shop drawings as outlined below:

- A. Include plans, elevations, sections and large-scale details of sign wording and lettering layout. Provide graphic layouts of each individual sign face at all locations. Show anchorages and accessory items.
- B. Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, etc.
- C. Fabrication details should be informed by site survey and field verification of all locations and sign types done by the Fabricator.

4.02 SAMPLES

- A. Samples shall be clearly labeled on the back (where possible), designating item number, name of manufacturer, sign type and location.
- B. Samples should represent variations in color and texture that might occur during fabrication.
- C. Designer reserves the right to reject any samples that do not satisfy the construction, finish or color requirements. Submit additional samples as required to obtain final approval.
- D. Graphic Wall:
 - (1) 24-30" wide full-scale mock-up of "Graphic Wall" including the following components:
 - 1. Wall paper graphics
 - 2. Butt joints
 - 3. Matte clear coat finish

4.03 PAPER TEMPLATES

Fabricator to submit paper templates of each location with dimensional letters (ex: B3, F3) for on site review with Owner and Designer review for final approval prior to fabrication.

4.04 COLOR AND FINISH SAMPLES

Submit three (3) samples of each color and finish applied on each material type indicated in the drawing package. Samples should represent the final finish of each element and will be used as control samples for production approval.

- A. Color sample plates of each painted finish. Samples to include various paint finish options, including matte and semi-gloss.
- B. Material samples of each specified material and finish.

4.05 TYPE SPECIMENS

Include the following type specimens in shop drawings:

- A. Alphabet of each type style required by the contract documents; upper and lowercase, with numerals, punctuation and accents.

4.06 RESPONSIBILITIES

Any forthcoming changes and/or answers to open issues identified by the Fabricator, will be communicated via bulletins/notes on submitted drawings and it will be the Fabricator's responsibility to update the documents with any required changes.

5.00 REGULATORY REQUIREMENTS

- A. All installation work shall comply with applicable municipal, state and federal codes, sign ordinances and ADA guidelines for accessible, fire and life safety signing.
- B. All OSHA safety requirements will be implemented during fabrication and installation as needed or required to comply with safety regulations.

6.00 REFERENCE STANDARD

The following materials reference standards will apply to the work materials (use most current version of reference standards):

ASTM A36	Structural Steel
ASTM A123	Zinc (Hot Galvanized) coatings on products fabricated from rod, pressed and forged steel shapes, plates and bars.
ASTM B221	Aluminum-alloy extruded bars, rods, wire, shapes and tubes.
ASTM D822	Light and water exposure apparatus (carbonarc type) for testing paint, varnish, lacquer, and related products.
ASTM E84	Surface-burning characteristics of building materials, lacquer and related products.
AWI	Comply with applicable requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute.
CDA	Copper Development Association, Inc.
FS L-P-391	Plastic sheet, rods and tubing, rigid, cast materials.
FS L-P-387	Plastic sheet, laminated, thermosetting.
PS-1	Construction and industrial plywood.
PEI	Porcelain Enamel Institute.
TM B135	(Fed Spec) Brass, Muntz 280
QQ-B-613	
UL-943	Fluorescent lamp ballasts.

7.00 PROTECTION AND STORAGE

- A. Fabricator is responsible for storage of signs and assemblies and protection from damage at the shop, in transit and until erected in place, complete, inspected and accepted by Owner.
- B. Fabricator is responsible for the replacement pilferage both prior to and until inspection and acceptance of installation by the Owner.

8.00 INSPECTION

- A. All production materials, color samples and paints, fabricated or partially fabricated items shall be available for inspection, on-site or in the shop, by the Owner or Designer during the manufacturing process and until final delivery, installation and acceptance, to determine compliance with the requirements of these specifications.
- B. Shop inspection approvals do not guarantee final acceptance of installed work.

9.00 INSTALLATION

- A. Install sign units and components with concealed fasteners unless otherwise shown. Refer to drawings for general method of installation. Verify each surface in field to determine appropriate mounting hardware. Fabricator is responsible for determining where below ground or in-wall structural tie-ins may be required.

- B. Sign Location Plans show approximate locations of signs. The Fabricator is responsible for determining the location of any obstructions to the signs' installation. This includes but is not limited to underground structures and utilities on ground mounted signs on the exterior, and sprinkler heads, security cameras and mirrors and exit signs on the interior. Any conflicts should be brought to the attention on the Owner and Designer.
- C. Protect all adjacent surfaces from damage during installation. Restore or replace any damaged surfaces to original condition and appearance, including, sidewalk concrete, brick veneer, etc. Return ground to original state and finish with like materials.

10.00 REMOVAL OF EXISTING SIGNAGE

- A. Work shall include removal of existing signage that is present in redundancy or in conflict with new sign programming via. copy listings, physical location or otherwise.
- B. Any removal of an existing sign that is not being replaced by a new sign will require patching and repair to match the surrounding condition and finish. If the sign is exterior this would require returning the ground treatment to match the surrounding landscape. It is the Fabricator's responsibility to notify the Owner if any components of existing signage will remain (i.e. Below grade footings, etc.)
- C. Any removal of an existing sign that had an electrical or data connection will require sealing the connection so no wiring or other is exposed. It is the Fabricator's responsibility to notify the Owner of such work prior to completion.
- D. Deposit tickets are required to document how signage that is removed is being disposed of, this includes but is not limited to hazardous materials as well as materials that can be recycled.
- E. It is the Fabricator's responsibility to address any issues or discrepancies to the sign removal guidelines to the Owner in writing within 24 hours.

11.00 CLEAN UP

- A. Daily and upon completion of installation remove all waste, dirt, wrappings and excess materials, tools and equipment and thoroughly clean all surfaces to the satisfaction of the Owner.

12.00 REORDERING

- A. All items specified in this package shall be available to the owner in additional quantities for a period of 10 years after completion of all work called for in this specification.

13.00 WARRANTY

- A. Warrant all products (including, but not limited to, materials, hardware and finishes) against any and all defects for a minimum period of seven years from date of installation.
- B. Vinyl die-cut letters: warranted for seven years against de-lamination from substrate.

- C. Paint finishes: warranted for seven years against fading or chalking, corrosion developing beneath paint surfaces of the support systems (except for obvious vandalism or other external damage to the paint surfaces).
- D. Corrosion of the fastenings.
- E. The signs not remaining true and plumb on their supports during normal wear.
- F. Fading of the colors when matched against a sample of the original color and material.
- G. Discoloration of metal finishes.
- H. The Fabricator shall correct any and all material and/or workmanship defects in which may appear during the warranty period by restoring defective work to the standard of the contract documents at no cost to the Owner and to the Owner's satisfaction. Corrections include, but are not limited to: disfiguring of any surface due to chalking, rusting, bubbling, crazing or other disintegration of the sign face or of the messages or of the edge finish of the sign inserts or panel.

14.00 METALS

14.01 ALUMINUM

- A. Aluminum shall be of best commercial quality and the various forms shall be straight and true. There shall be no scratches, scars or buckles. Size thickness, and finish of aluminum shall be per NAAMM "Metal Finishes Manual". Comply with the following industry standards.
- B. Aluminum sheets shall conform to ASTM B209 6061-T6
- C. Aluminum extrusions shall conform to ASTM B241 6063 T6. Wall thickness shall be a minimum of 1/8" thick unless otherwise shown.
- D. Brushed Finishes—Brush with abrasive of increasing grit# in a linear directional pattern. Final surface shall have visible grain pattern to match sample provided by Designer. Spray with clear protective finish.
- E. Polished Finish—Brush with abrasive of increasing grit#. Buff to a mirror finish with no visible grain. Spray with clear protective finish.
- F. Non-Directional Finish—Brush with abrasive mounted in a random orbital sander. Spray with clear protective finish.

15.00 CONCRETE

15.01 CONCRETE FOR FOUNDATION/FOOTER

- A. Concrete for Footing: Mix Portland cement complying with ASTM C 150, aggregates complying with ASTM C 33, and clean water to obtain concrete with a minimum 28-day compressive strength of 2500 psi.
- B. Use at least 4 sacks of cement/cu. yd., 1-inch maximum size aggregate, maximum 3-inch slump, and 2 to 4 percent entrained air.

GENERAL SPECIFICATIONS

15.02 CONCRETE COLOR MIX

- A. Concrete color mix to conform to match existing on campus. Specification number to be provided.

16.00 ADHESIVES AND TAPES

16.01 FOAM TAPE

- A. Provide 3M double coated foam tape 4016, 4032 or equal.
- B. Adhesive shall be A-20 Acrylic
- C. Carrier shall be urethane foam

16.02 LAMINATING ADHESIVE

- A. Provide Flexcon V9590 D/PPFW clear or equal.

16.03 VHB FOAM TAPES

- A. Provide 3M Scotch VHB 4930
- B. Adhesive shall be Acrylic VHB
- C. Carrier shall be closed cell foam

16.04 SILICONE ADHESIVE

- A. TTs-00230C, ASTM C920 Clear, (Acetoxy Cure)

16.05 EPOXY

- A. 3M DP-110 or equal

17.00 VINYL FILM

17.01 NON-REFLECTIVE GRAPHICS

- A. Provide 3.0 mil thick 3M Scotchcal Film 220 Series or approved equal.
- B. Color of vinyl material is to be integral and not surface applied except as specifically noted.

17.02 REFLECTIVE GRAPHICS

- A. Provide Avery Dennison enclosed lens reflective sheeting or approved equal.

18.00 FINISHES & COATINGS

18.01 GENERAL

- A. All exposed paint finishes shall be durable and resistant to scratching and chipping.
- B. Finishes shall be spray painted according to manufacturers specifications for environment, curing time, etc. All paints, inks, coatings and finishes, including primers and other surface preparations shall be of the highest quality,

manufactured specifically for the surface materials to which they are applied, and shall be compatible with the materials to which they are applied. Surfaces shall be smooth and free of flaws such as scratches, bumps or over-sprayed paint.

- C. All paints, inks, and coatings shall be heavy-duty grade to withstand chalking, fading, discoloring, chipping, cracking, and peeling for a minimum of 3–5 years or to the maximum manufacture warranty specifications.

18.02 ALUMINUM

- A. Aluminum surfaces shall be spray painted with acrylic polyurethane enamel.
- B. Primer Coat: Matthews 74 760
- C. Catalyst–43 270
- D. Color Coat: Matthews Acrylic Polyurethane Nuance

18.03 ACRYLIC

All background colors shall be spray painted with Matthews Acrylic Polyurethane. Finish with prime coating under a minimum color coat of 1.5 mil dry film thickness.

Translucent or transparent acrylic specified for the purpose of transmitting light should be free from internal flaws or variations in color.

18.04 VINYL FILMS

All vinyl films shall be matte finish unless otherwise specified. Vinyl shall be applied following manufacturers instructions and should meet or exceed requirements for chalking, fading, discoloring, chipping, cracking, and peeling for a minimum of 7 yrs.

19.00 QUALITY ASSURANCE

- A. Work done and materials furnished shall meet the highest industry standards in every respect and, unless otherwise specified, materials and equipment shall be new and of the latest design.
- B. Use only personnel thoroughly skilled and experienced with the products and method for fabrication and installation of signage specified.
- C. 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.
- D. The intent of the Sign System Manual is to provide everything necessary for a complete project. In the event of conflict or omission, the Fabricator shall consult the Designer for resolution.
- E. Materials and hardware not specified, but necessary to the complete functioning of the sign, shall conform to the quality level established.
- F. Substitutions of items specifically indicated in this specifications package that serve the same function with equal performance will be considered upon submission of substitution.

20.00 ALTERNATE FABRICATION

- A. The drawings show design intent only. The Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication techniques or details necessary to the successful completion of this project should be communicated to the Designer in a timely fashion.
- B. Further development and engineering of Designer's details (for fabrication and installation) is expected and should be shown in the shop drawings.
- C. The Designer recognized that manufacturers may have shop fabrication techniques that differ from details shown. Suggested changes in fabrication that do not alter the design intent nor reduce the quality will be considered by the Designer, provided they are submitted in sketch form, as soon as possible, prior to shop drawing preparation.

21.00 GRAPHIC STANDARDS

21.01 TYPOGRAPHY

- A. All type shall be computer typeset using typefaces specified in the Sign System Manual with letter spacing adjusted where needed to ensure optical spacing. Absolutely no letters are to touch. Only typefaces specified in the Sign System Manual are to be used.
- B. Sign type drawings indicate which copy is uppercase and which is lower case. These should be followed as much as possible. When the message on the Copy List differs from the drawing, the Copy List should be followed.

21.02 DIGITALLY PRINTED MEDIA

- A. Printer to have direct-to-substrate printing capabilities with CMYK and White ink options.
- B. All media is to be opaque, with full even coverage, and free from dust bubbles, blemishes and other foreign matter.
- C. Fabricator should seek to minimize visible banding over color fields and large graphics. Designer reserves the right to reject print samples that display excessive banding.

21.03 SCREEN PRINTED MEDIA

- A. All screen-printed graphics shall be produced with ABS paint compatible with the substrate, using mesh of 390 or finer to produce clean, sharp edges.
- B. All media is to be opaque, with full even coverage, and free from dust bubbles, blemishes and other foreign matter.
- C. There shall be no streaking created by drawing squeegee over screen.

21.04 GRAPHICS

- A. All text, arrows and symbols shall be provided in the sizes, colors, typefaces and letter spacing specified in the Sign System Manual. All text shall be a true, clean photo-mechanically accurate reproduction of the typeface(s) specified as shown in Section 2.00 and 3.00 Graphic Standards. Text shown in drawings is for layout purposes only; final text for all signs is shown in the Copy List.

PART 3, SECTION B

Graphic Standards

TYPOGRAPHY

Typography is an important component of our identity system. Used consistently, typography reinforces our brand's recognition and visual style. Along with the signature, it serves as an anchor for our brand.

T1 Helvetica Neue Condensed

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

T2 Helvetica Neue Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

T3 Helvetica Neue Bold Condensed

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

LETTER SPACING

Careful and consistent letter spacing, or tracking, is critical for maximizing message legibility. Refer to the examples below for acceptable letter-spacing.

Main Ent } Main Ent }
Inconsistent letter spacing Consistent letter spacing

APOSTROPHE

Sometimes the foot mark is mistaken for an apostrophe and an inch mark is mistaken for quotations. Please refer to the examples below for the correct apostrophe for each typeface.

Park's Park's
Incorrect apostrophe Correct apostrophe














TEXT MEASUREMENT STANDARDS

When measuring copy height, measure only the height of the capital letters to determine overall copy height. Some lower-case letters have ascenders and descenders that extend beyond the average capital letter height and should not be used for measurement. Shown as X measurement below.

X
Height

When measuring line spacing, measure from baseline to baseline. Shown as Y measurement below.

Line
Y
Spacing

COLOR/MATERIAL	COLOR/MATERIAL NAME	SUBSTRATE(S)	APPLICATION PROCESS
P1 Panel Gray 	Sherwin Williams SW7069 Iron Ore	Aluminum	Surface Painted
P2 Red 	Matthews Paint MP14801 Massey-Ferguson Red	Aluminum	Surface Painted
P3 Green 	Match Pantone 383	Aluminum	Surface Painted
P4 Gold 	Matthews Paint MP41844 Yellow Gold Pearl	Aluminum	Surface Painted
P6 Black 	Matthews Paint MP33759 Blackguard	Aluminum	Surface Painted
P7 White 	Matthews Paint MP27386 Verizon White	Aluminum, PVC	Surface Painted
P8 Base Black 	Tiger Drylac Powder Coat Black Fine Texture Matte, 39/80200	Aluminum	Surface Sprayed/Oven Cured
M1 Aluminum	Painted as per drawings	-	-
M3 Clear Polycarbonate	Makrolon GP Clear	-	-
M4 Bulletin Board	Forbo Marmoleum 2209 Black Olive	-	-
M5 PVC	As per drawings	-	-
M6 Fabric Banner	As per drawings	-	-
V1 White 	Match P7, MP 27386	Aluminum	Surface Applied
V2 Black 	Match P6, MP33759	Aluminum	Surface Applied
V3 Reflective White	Avery White HV1200-101-R (A7801-R)	Aluminum	Surface Applied
V4 Red 	Match P2, MP14801	Aluminum	Surface Applied
V5 Green 	Match Pantone 383	Aluminum	Surface Applied
V6 Gold 	Match P4, MP41844	Aluminum	Surface Applied
V7 Gray 	Match P1, SW7069	Aluminum	Surface Applied
V8 Reflective Black	Avery Black HV1200-190-R (A7810-R)	Aluminum	Surface Applied
V9 Reflective Yellow	Avery Yellow HV1200-235-R (A7812-R)	Aluminum, PVC	Surface Applied

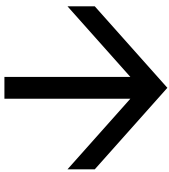
SYMBOLS AND ARTWORK

Montclair State University

MSU LOGO - ONE LINE
MSULogo_OneLine.eps

Montclair State University

MSU LOGO - TWO LINE
MSULogo_TwoLine.eps



ARROW
arrow.eps



PARKING
parking.eps



CAUTION STRIPES
CautionStripes.eps



RT. 3
Rt3.eps

Actual Recommended Size at 100%



Map Design and Usage Notes (For Graphic Design Reference Only)

G4 Garage Orientation Panel

- Illustrate a portion of the current campus location (enlarged map with 5-10 minute walk radius)
- Assign a number to each building on the map (every map starts over at “1”, do not assign specific numbers to specific buildings)
- List destinations/buildings in alphabetical order (do not list in numerical order)
- Include a full campus zone map inset for reference with a star to identify location within specific campus
- Orient the map in a heads-up orientation for each map location
- Include a “You are Here” symbol/identifier
- Identify the Main Entrance for each building shown on the map
- Identify the Accessible Entrance for each building shown on the map (illustrate barrier-free path to entrance)
- Include a compass rose
- Include a symbol key












P1 Pedestrian Orientation

- Illustrate a full campus zone map (north, south, and west campuses)
- Assign a number to each building on the map (every map starts over at “1”, do not assign specific numbers to specific buildings)
- List destinations/buildings in alphabetical order (do not list in numerical order)
- Orient the map in a heads-up orientation for each map location
- Use numbers to identify buildings (use assigned campus zone colors for number blocks)
- Include a “You are Here” symbol/identifier
- Include a compass rose
- Include a symbol key









S1 Shuttle Stop

- Illustrate full campus map with all shuttle stops identified (do not include building labels)
- Orient the map in a heads-up orientation for each map location
- Utilize circle symbols and color codes to identify shuttle stops (reference S1 drawings)
- Include a “You are Here” symbol/identifier
- Include a compass rose
- Include a symbol key

Map Symbols

-  **South Campus**
C=20 M=95 Y=80 K=10
-  **West Campus**
C=10 M=30 Y=85 K=0
-  **North Campus**
C=35 M=20 Y=85 K=0
-  **Parking**
C=80 M=20 Y=0 K=0
-  **Shuttle Stop**
(Use Campus Color)
-  **Accessible Entrance**
C=100 M=50 Y=0 K=0
-  **You Are Here**
C=0 M=0 Y=0 K=100
-  **Train**
C=100 M=0 Y=10 K=30
-  **Main Entrance**
C=0 M=0 Y=0 K=100
-  **Campus Boundary**
1.5pt rule, Dash= 3pt, Gap= 3pt
C=70 M=45 Y=85 K=40
-  **Barrier-Free Path**
1pt rule, Dash= 1pt, Gap= 1pt
C=100 M=50 Y=0 K=0

Map Color References (CMYK)

-  Roads/Parking Lots (C=35 M=25 Y=30 K=5)
-  Grass (C=55 M=40 Y=85 K=25)
-  Trees (C=70 M=45 Y=85 K=40)
-  Paths (C=10 M=10 Y=13 K=0)
-  MSU Buildings (C=30 M=65 Y=45 K=5)
-  Non-MSU Buildings (C=0 M=0 Y=0 K=55)
-  Railroad Tracks (C=0 M=0 Y=0 K=90)
-  Non-Campus Grounds (White Overlay at 70% Opacity)

Map Typography

Typeface: Helvetica Neue LT Std 75 Bold
 Point Size (Text): 8pt
 Point Size (Numbers): 10pt

