Mt. Crested Butte Signage & Wayfinding Phase 2 Sign Fabrication and Installation Project:

Phase 2 Scope of Work

January 2024

Prepared for the Town of Mt. Crested Butte, Colorado

Mt. Crested Butte Signage & Wayfinding Phase 2 Sign Fabrication and Installation Project

Phase 2 Scope of Work

PHASE 2 SIGNAGE & WAYFINDING SCOPE OF WORK

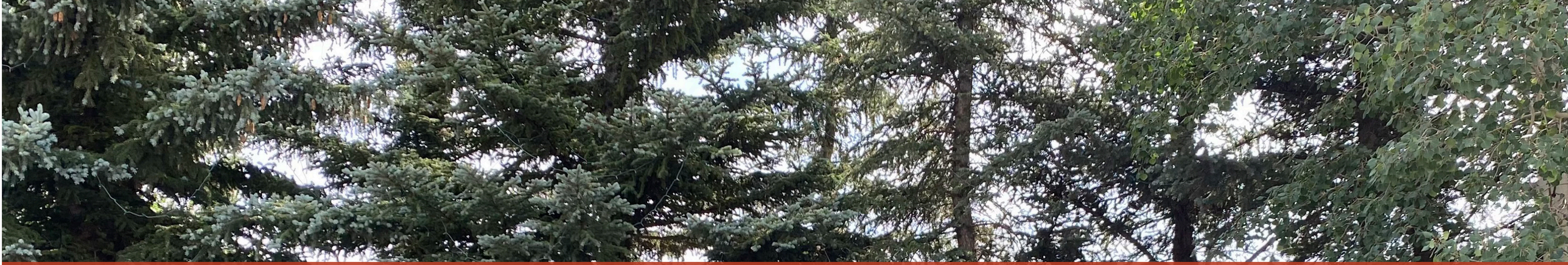
Manufacture (fabricate) and install destination and arrival wayfinding throughout Mt. Crested Butte and near the base area. This invitation includes Phase 2 only of the Mt. Crested Butte Signage & Wayfinding Phase 2 Sign Fabrication and Installation Project: Phase 2 Scope of Work, dated January, 2024 (this document). **The scope includes a total of 12 signs and three different sign types**: Destination Signs (8), Destination Town Hall Sign (1), and Destination Building-Mounted Signs (3). Additionally, perform other related signing tasks.

The following are the two primary project tasks:

Task A: Signage Fabrication: This project task involves developing final Shop Drawings, costs, and construction notes for manufacturing and fabrication of each Phase 2 sign type, per the Project Statement of Work (SOW) and Contract provisions.

Task B: Install Signs: This project task involves installing the twelve (12) Phase 2 signs in the Town, per the Project Statement of Work (SOW) and Contract provisions.

The following document outlines the Mt. Crested Butte Signage & Wayfinding Phase 2 Sign Fabrication and Installation Project for Fabrication/Manufacturing and Installation of 12 signs.



Purpose & Goals of the Mt. Crested Butte Signage and Wayfinding Designs

- Help direct residents and visitors to destinations within Mt. Crested Butte
- Identify the style, quantity and type of signage needed in Mt. Crested Butte
- Outline the costs and resources needed to implement the new branding, signage & wayfinding designs

Mt. Crested Butte Signage & Wayfinding Phase 2 Sign Fabrication and Installation Project

Phase 2 Scope of Work

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Phase 2 Signage & Wayfinding Quantity/Type Overview

Sign Type (abbreviation)	Signage Description/Function	Signage Installation Surface Type	Installation Type	Google Map Legend Color	Electrified - Lighted (Yes/No)	Phase 2 Sign Quantity
Destination (D)	**Freestanding Sign** - Used to Identify the Sign Wayfinding End-Point Destination, and Located Along Roadways	Hard (paved) and Soft (soil) Fundation Installations	Freestanding	Dark Blue	Yes	8
Destination - Building Mounted (DB)	**Building Mounted Sign** - Used to Identify the Sign Wayfinding End-Point Location, with Sign Attached to a Building/Structure	Building mounted (largely wood building facades)	Attached to Existing Building/Structure	Dark Red	No	3
Destination - Building Mounted - Town Hall Building (DB TH)	**Building Mounted Sign** - Used to Display the Town Logo on the Town Hall Building Pediment	Building Mounted (wood building façade)	Attached to Existing Building/Structure	Dark Red	Yes	1
Phase 2 - Total Signs						**12**

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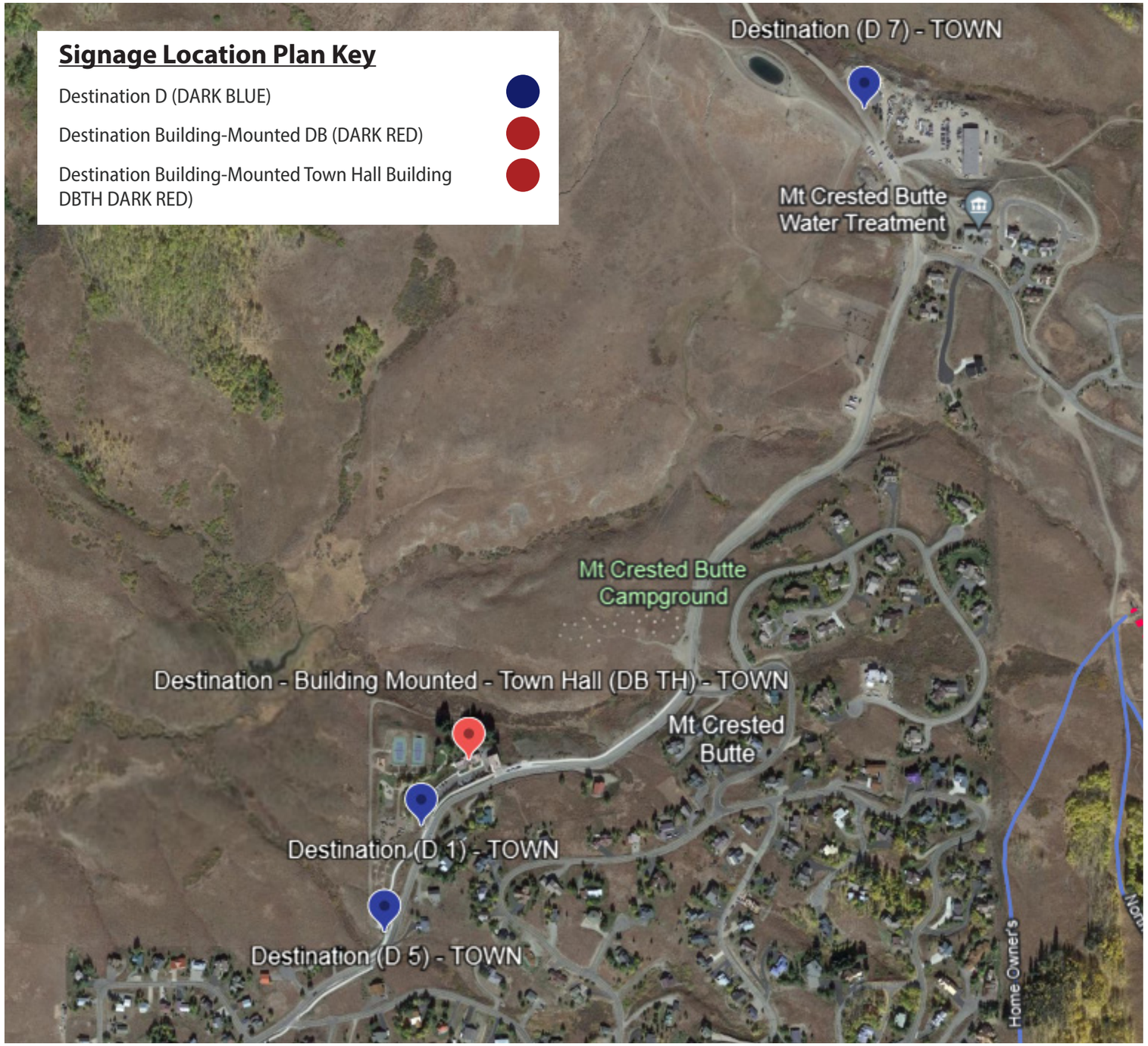
Messaging & Location Plan

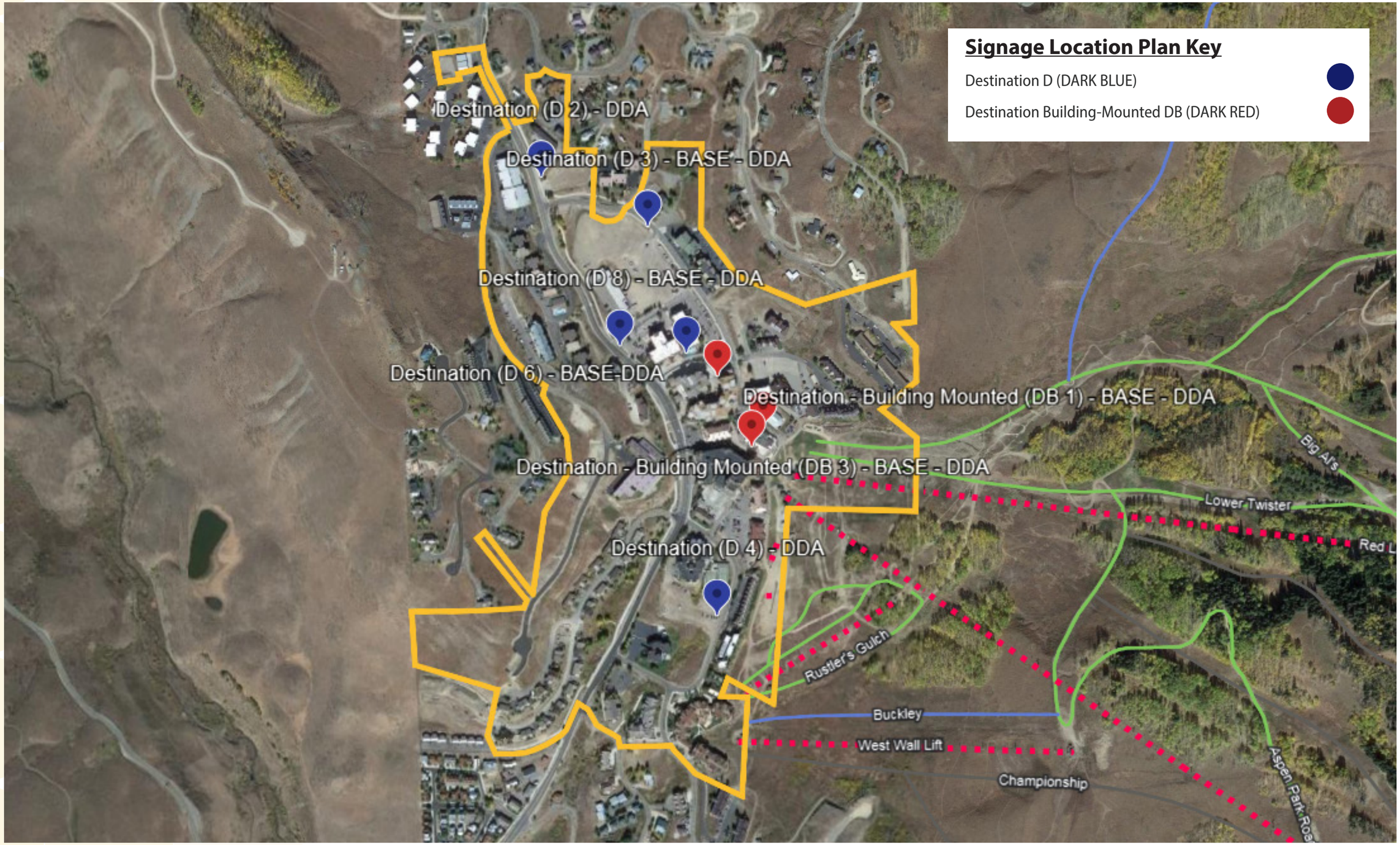
Google Earth Messaging Plan Link:

https://earth.google.com/web/@38.89989644,-106.96878042,2871.93133196a,3515.71288639d,30y,0h,0t,0r/

PHASE 2 SIGNAGE LOCATION & MESSAGING PLAN (NORTH END OF TOWN)



PHASE 2 SIGNAGE LOCATION & MESSAGING PLAN (SOUTH END OF TOWN/BASE AREA)



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Phase 2 Signage & Wayfinding Designs

SIGNAGE & WAYFINDING DESIGN OVERVIEW - ALL PHASES OF THE MTCB WAYFINDING PROJECT

The final signage and wayfinding designs include a total of 14 different sign types **(only 3 of these sign types are part of Phase 2)** that create a cohesive and easy-to-follow wayfinding system for the Town of Mt. Crested Butte.

The overall design is based around the design concept of a "forest of ski trees" that use a representational ski form created from a bent steel metal frame surrounding a punched aluminum leaf pattern. The leaf-patterned ski forms are powdercoated in a custom rusted steel color that mimics the organic texture of naturally-weathering steel.

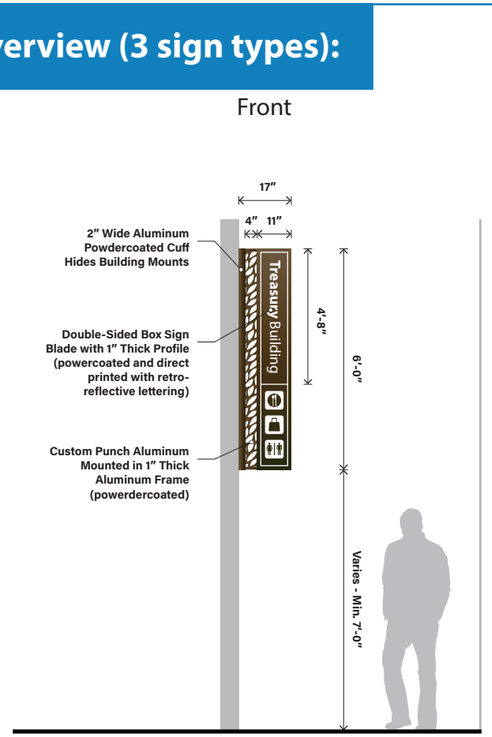
Nested between the open ski forms are colored acrylic panels in a variety of shades that reference the natural flowers, sky and landscape of the Mt. Crested Butte area. During the day, the acrylic panels allow the sunlight to highlight their colors, and at night, they have a soft glow created by internal LED lighting.

Stylistically, the 'ski trees' are mounted flush with the ground, and have the appearance of rising directly up from each location, giving the appearance of light, artistic sculptural elements within the landscape.

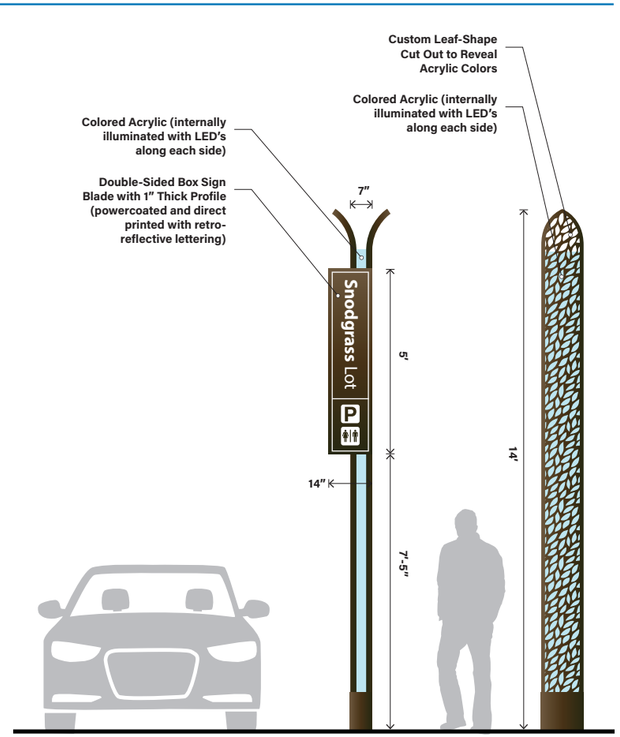
For each sign type, a variety of informational panels are designed to help direct drivers, pedestrians, skiers and bicyclists to various community destinations and experiences. To reduce the impacts of snow gathering on dimensional text, written information is direct printed where possible, with auto directional information having reflective text that will be illuminated by auto headlights at night.

Phase 2 Wayfinding Overview (3 sign types):

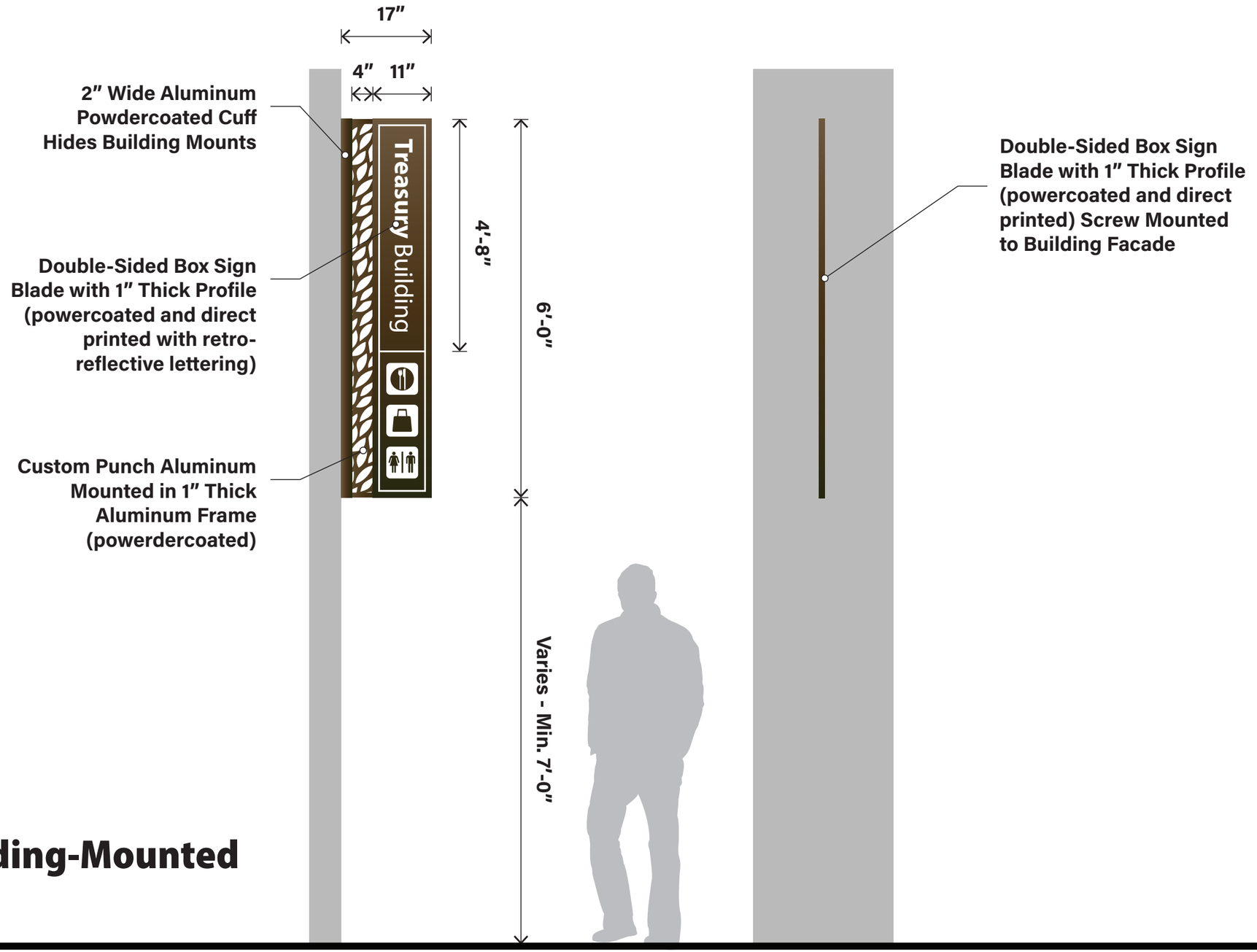
Destination Building-Mounted Town Hall



Destination Building-Mounted

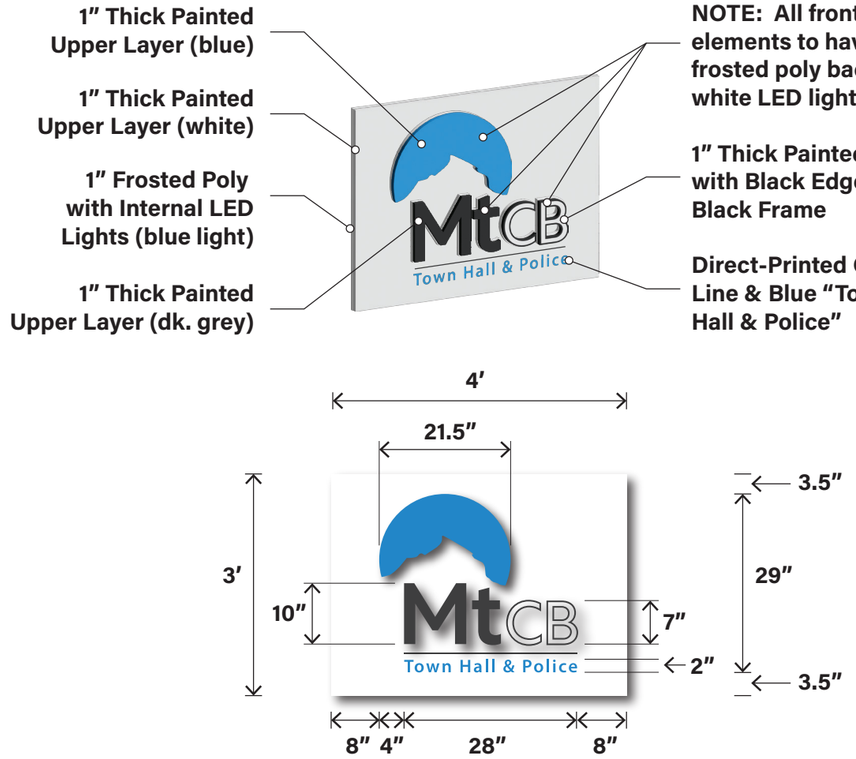


Destination

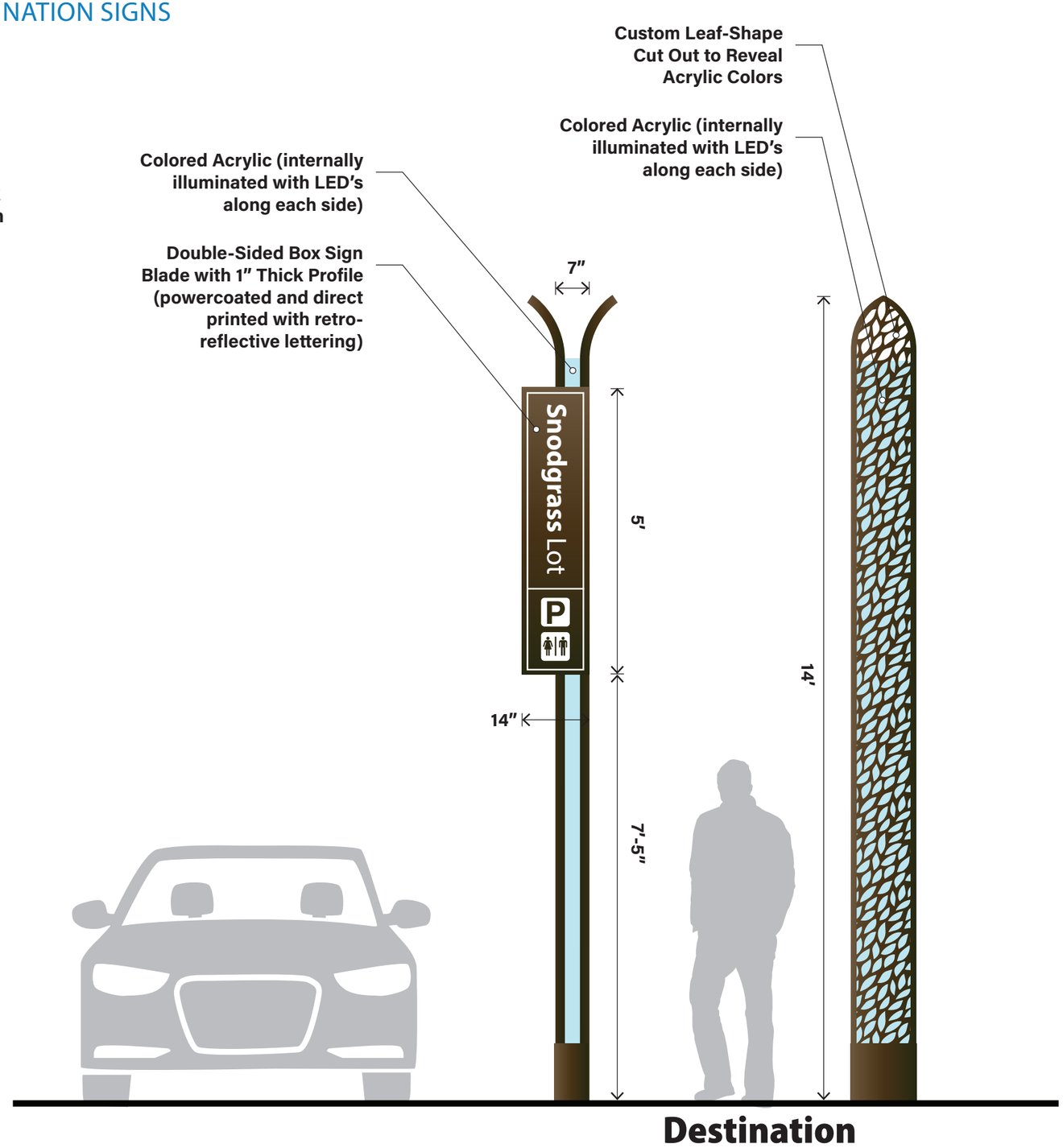


Destination - Building-Mounted

PHASE 2 - DESTINATION BUILDING-MOUNTED TOWN HALL & DESTINATION SIGNS

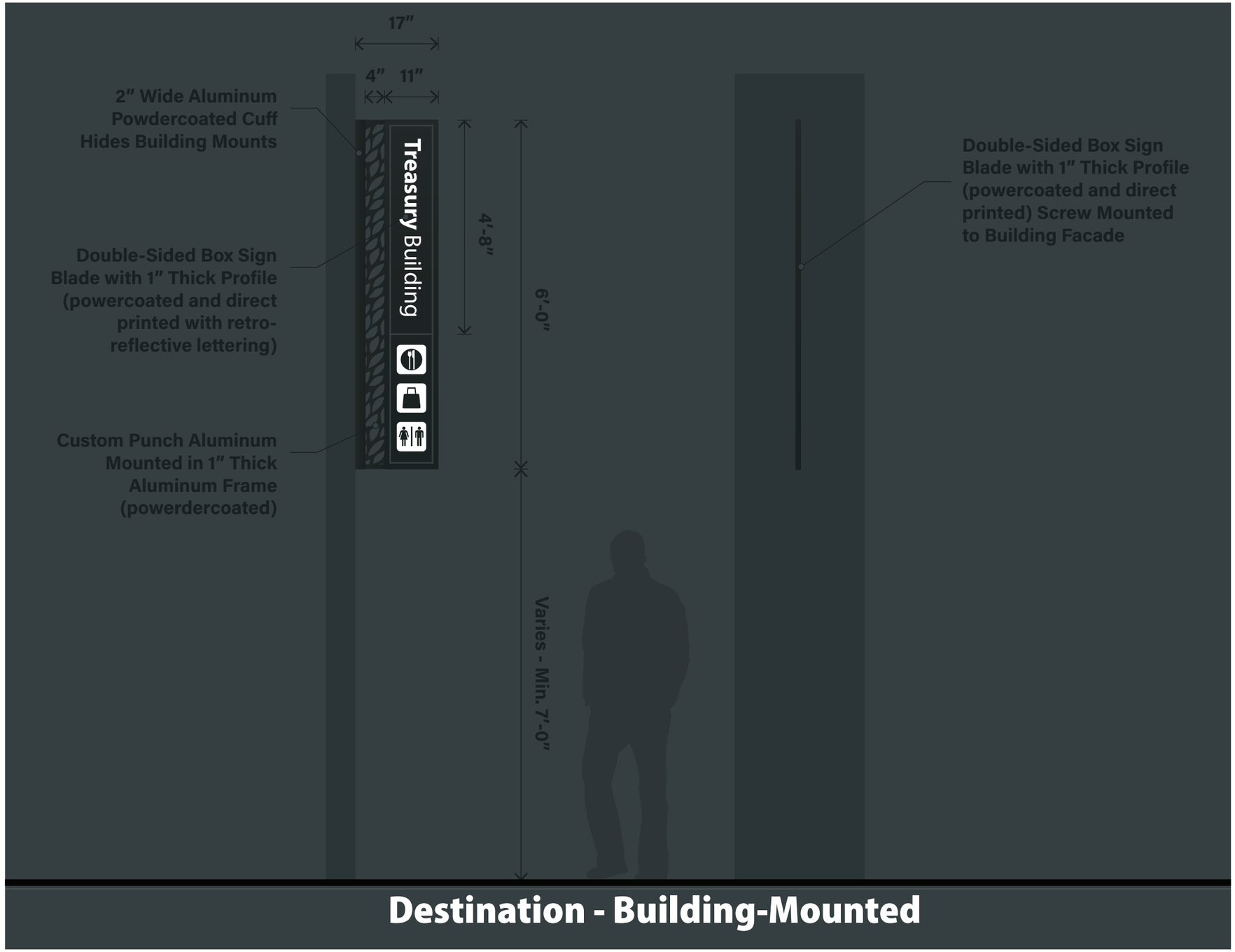


Destination Building-Mounted Town Hall



Destination

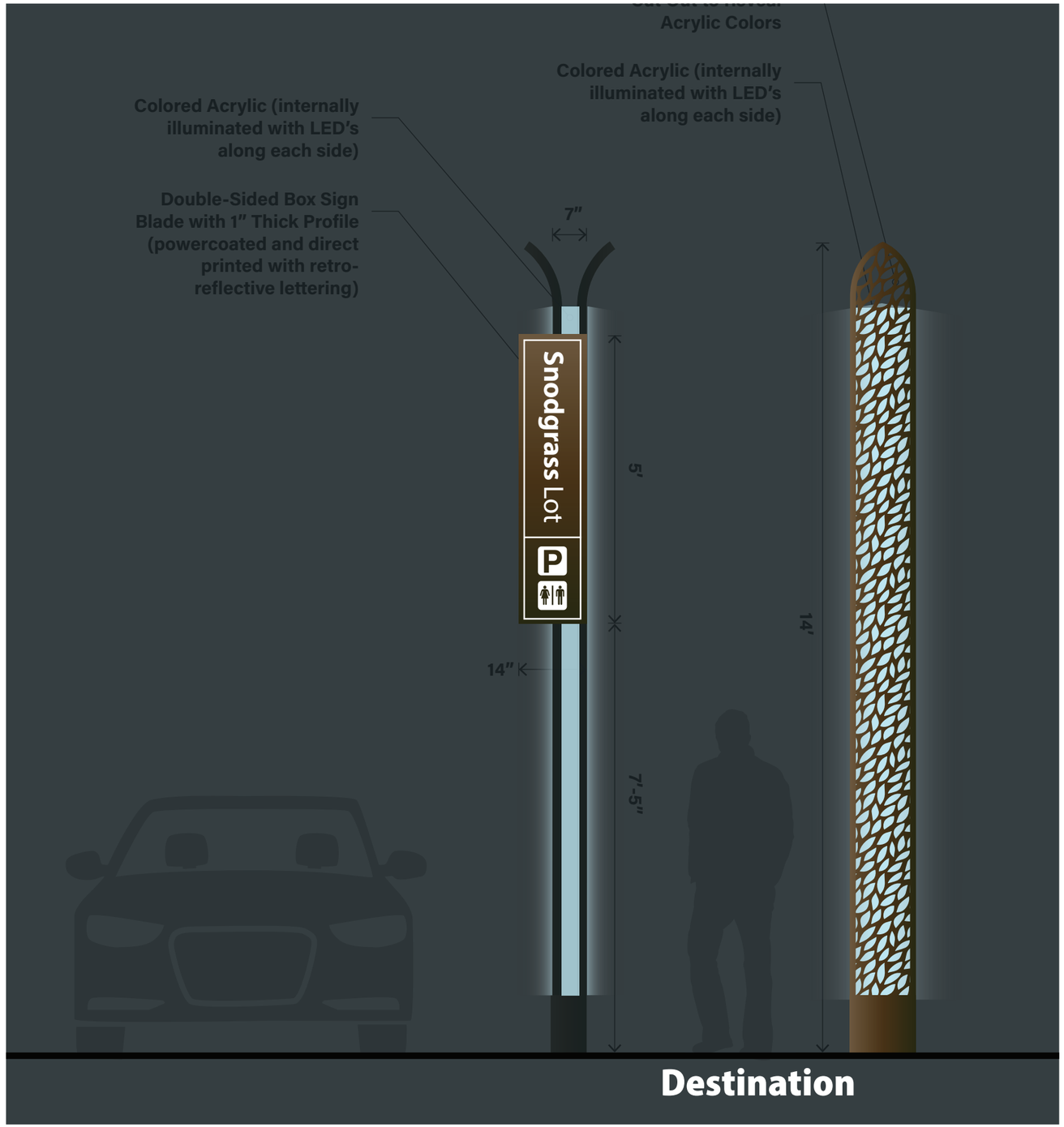
PHASE 2 - DESTINATION BUILDING-MOUNTED SIGNS (NIGHT)



Destination - Building-Mounted

PHASE 2 - DESTINATION BUILDING-MOUNTED TOWN HALL & DESTINATION SIGNS (NIGHT)

Destination Building-Mounted Town Hall



SIGNAGE NIGHTTIME LIGHTING DESIGN

Mt. Crested Butte Nighttime Lighting Design Intent

As a year-round destination for both visitors and residents, Mt. Crested Butte is a hub for outdoor adventures and welcomes people to the community to stay, recreate, and explore regularly. During winter months when travel to Crested Butte Mountain Resort is in full-swing, many visitors arrive and travel around town after dark. Statistically, the overall US nighttime crash rate is double that of the day (measured by the Federal Highway Administration), but the crash rate can be even higher in Colorado's snowy winter mountain towns, like Mt. Crested Butte. There can be many reasons for higher nighttime crashes, but improving visibility for nighttime drivers benefits everyone. Making signage information visible at night is especially helpful to visitors that are looking for destinations, street names, and directions, and is a required element along all state of Colorado roads and highways. Although the roadways in Mt. Crested Butte are not under state jurisdiction, it is still considered a recommended best practice to ensure public signage is clearly visible and legible at all times of day, including the more dangerous nighttime hours.

Goals of the Recommended Lighting Designs

When designing illumination for the new Mt. Crested Butte signage, the goals included:

- ➔ Promote public safety and welfare for drivers, bikers, and pedestrians through clear messaging that is visible both day and night
- ➔ Preserve the nighttime dark sky and reduce the amount of energy needed to illuminate the signage information
- ➔ Reduce the amount of glare and/or light trespass from the signage onto surfaces, and ensure the vision of drivers and pedestrians is not degraded due to signage lighting
- ➔ Ensure proposed light levels and light sources can be dimmed and adjusted as needed
- ➔ Specify lighting materials and systems that are robust in the sometimes extreme weather conditions of Mt. Crested Butte, including easily accessed for routine maintenance that can be which includes easy access for routine maintenance

In order to allow the new Mt. Crested Butte signage to be legible at night, two methods of illumination are used to improve the visibility of signage information.

Retro-Reflective Signage Illumination

The first method illuminates the signage directional information by using retro-reflective letters and icons that glow in the light of auto headlights, bike lights, or headlamps. During the day, the retro-reflective letters and icons appear white, but at night their retro-reflective surfaces bounce light from vehicle and bike headlights back toward drivers or bikers, allowing them to see and process the signage information from a distance. The specified retro-reflective signage coatings create clarity for visitors when looking for street names, auto and bike directional information, destination markers, and amenities. The retro-reflective 'lighting' requires no electrification, and is only illuminated by the glow of external auto and bike lights.

There are several grades and intensities of retro-reflective coatings manufactured for a variety of applications. For Mt. Crested Butte, the signage recommendation for the amount of retro-reflectivity is a balance between safety/legibility and the need to not overwhelm visitors with reflections that are too bright for the overall dark and subdued character of the community. After weighing the options, the preferred amount of retro-reflectivity landed in the 'Class B' range or approximately 32% of light from the retro-reflective coating being bounced back to drivers or headlamp users. The 32% was also chosen for its longer durability, since all retro-reflective coatings fade over time and exposure to the elements. The following table provides an example of the differences between the retro-reflective classifications and their appearance during day and nighttime conditions:

	Polycarbonate cube corner retroreflective technology	Truncated cube retroreflective technology	Full cube retroreflective technology
Products	3M™ Engineer Grade Sheeting	3M™ High Intensity Sheeting	3M™ Diamond Grade™ Sheeting
Percentage Light Returned to Driver	14%	32%	58%
IRC Sheeting Class	Class A	Class B	Class C
ASTM Type	Type I	Type III, IV	Type VIII, IX, XI
Day & Night Views			

Retro-Reflective Signage Information provided by 3M. There are several manufacturers of retro-reflective coatings and materials, and the selected signage fabricator will be responsible for ensuring the signage meets the recommended 32% intensity (Class B).

Internal LED Signage Illumination

In addition to retro-reflective illumination, the signage family also has electrified internal lighting that creates a soft 'glow' within the internal acrylic core of each ski-tree signage pole. The glowing core of the skitree signs helps users identify the signage locations and messages, and the illuminated colors organize the signs by type (green for trails, red for pedestrian information, blue for auto directional information, shades of cool colors for the Town of Mt. Crested Butte info, and shades of warmer colors for Crested Butte Mountain Resort info). The electrification of the ski-tree signs is fully cut-off (80 degree, greater than full cut-off angle) and shielded at the top of the acrylic, preventing light from being cast up into the night sky. The internal LED lighting is not visible as individual lights, but rather appears as a soft, diffuse light that gently illuminates the internal colored acrylic of each ski-tree sign. From the front, the light is baffled/screened by the leaf-shaped punch of the ski-trees, while along the edge, the glow is uninterrupted and in a forward throw distribution, forming solid lines of diffuse colors (with no visible 'hot spots' of individual LED light bulbs). The glow of each ski-tree is restricted to under 70 watts and under 0.5 footcandles, and to within a 5 foot radius around each sign pole. The overall intent of illuminated signage is to create soft, glowing light that gently helps reinforce the use of color to differentiate areas and signage throughout town.

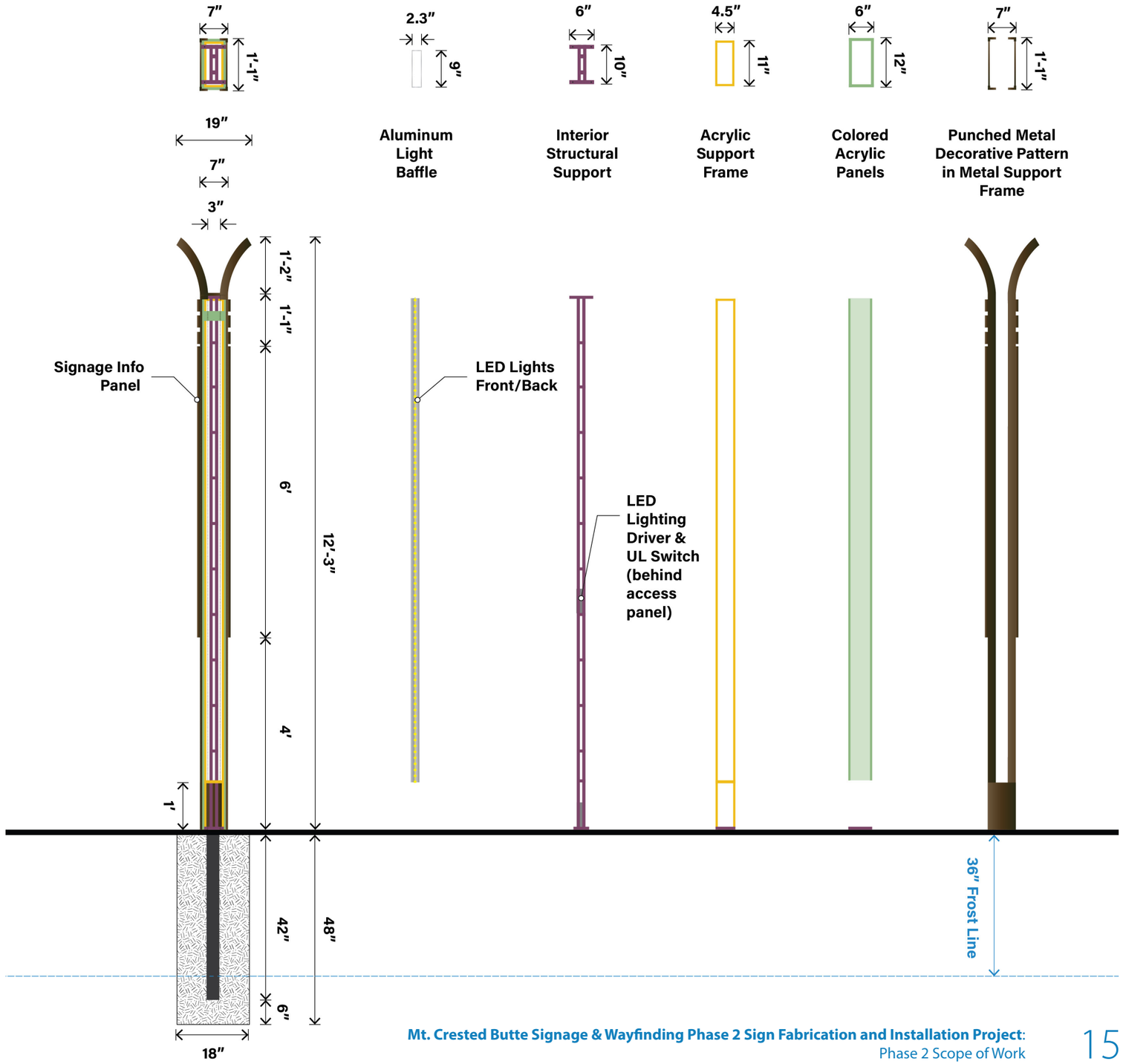
Where possible, the recommendation is to tie into existing light sources to power the LED's. However, where existing power sources are not easily available, the signs can be powered by solar sources mounted to existing poles (preferred) or to newly installed poles that will allow the solar source to be mounted above the average snowfall height (7' recommended clearance height).

PHASE 1 ILLUMINATED SIGNAGE EXAMPLE (INSTALLED - FOR REFERENCE)

04

Construction Design Details (including phase 1 engineered drawings for referenece)

CONSTRUCTION DETAILS - OVERVIEW OF SKI TREE SIGNAGE DETAILS - SIDE VIEW

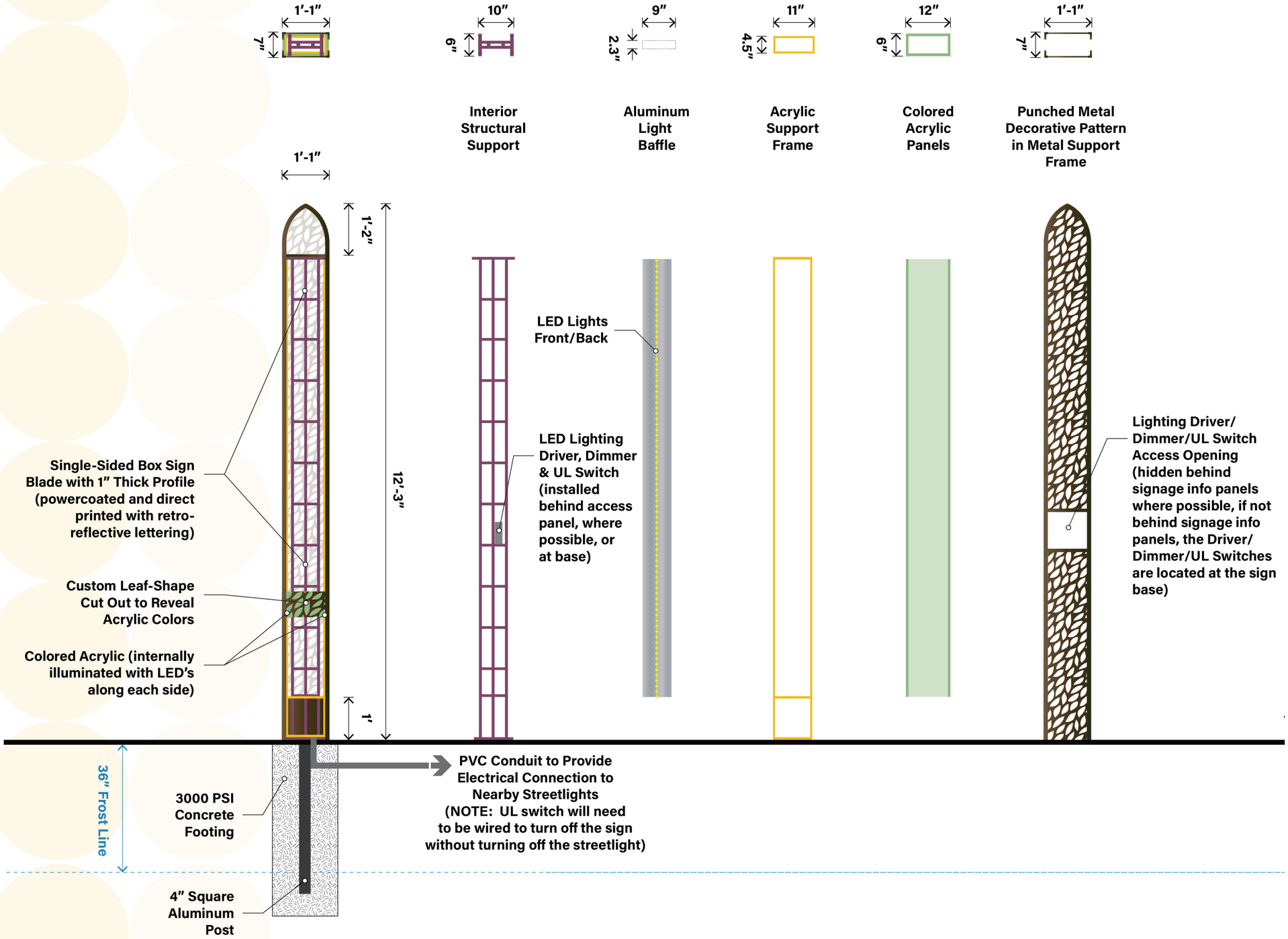


OVERALL PHASE 1 CONSTRUCTION NOTES

Installation Requirement Notes - LED Electrified Signs:

- Amp and circuit requirements determined as per sign type lighting requirements (see page 19 for Town lighting requirements).
- 1′-6″ minimum electrical conduit run needed for each sign type. Located to be coordinated between the Designer and the Fabricator (see page 27 for signage location coordination requirements).
- All internally illuminated signs require class 2 power supplies and a U/L disconnect switch (VAC/HZ inputs and VDC/AMP/ Watts outputs calculate per each sign type).

CONSTRUCTION DETAILS - OVERVIEW OF SKI TREE SIGNAGE DETAILS - FRONT VIEW



05 Construction Specifications

FABRICATION SPECIFICATIONS

A. Quality Standards

The materials, products, equipment and performance specifications described within, establish a standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.

B. Structural Design

Details on design intent drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and service at the installed locations, nor do they necessarily consider the preferred shop practices of the individual Fabricators. Therefore, it shall be the responsibility of the Fabricator to perform the complete structural design and engineering of the signs and to incorporate all the safety features necessary to adequately support the sign for its intended use and purpose and to protect the Owner. Fabricator shall also be responsible for ensuring that all signs meet local, state and federal codes. The fabricator shall check with the Town of Mt. CB regarding the final needed code standards. Any deviations from the from the specifications in this chapter or the design drawings must be agreed upon by the Town prior to finalization.

C. Vandalism Design

Fabrication and installation design is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. All hardware and fasteners within reach shall be vandal resistant.

D. Substitution

No substitution will be considered unless the Owner has received written request for approval.

E. Pre-Fabrication Submittals

The awarded fabricator must submit a copy of the following items to the Owner and Designer for their review prior to fabrication proceeding:

1. Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF to scale on a sheet size not smaller than 11" x 17" (draft) and ARCH D 24" x 36" (final). Final Shop Drawings are to be stamped by an Engineer licensed in the state of the project. The shop drawings for each sign type shall illustrate/describe the following:

- Elevations and cross sections – front, sides, top and back (if necessary); side sections; internal structure section/details; enlarged details such as of extrusions, dimensional letter mounting, mounting plate, etc.; with all final dimensions and call-outs for:
- Components – construction details/information related to individual elements
- Materials – color, type, gauge, and thickness (including substrates and overlays)
- Finishes – color, type of product, manufacturer, and sheen
- Fonts, graphics specifications and message fields
- Exploded view (optional) – isometric view with components, materials, and finishes.
- Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.
- Fabricator will subcontract with glass artist or glass manufacturer to cut and illuminate all illuminated glass signage elements (pedestrian, kiosk, and primary gateway sign types all include glass elements).
- Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
- Electrical details are to be provided for all elements that require electricity. All lighting shall be LEDs. Specific lighting/electrical/construction items to be included in fabricator engineered drawings:
  - ➔ Light source and/or fixture type and manufacturer
  - ➔ Power supply (transformer)
  - ➔ Amperage and voltage per sign
  - ➔ Electrical service required (source)
  - ➔ Lighting detail – provide an internal view of light fixtures, LED layout, transformers, internal cut-off switch
  - ➔ Engineering for wind load per Town code, which is a wind speed of 90 MPH (3 seconds), and 75 MPH (fastest mile), and Exposure C classification, "open terrain with scattered obstructions, with heights less than 30 feet".
  - ➔ Removable panels (where applicable)

- ➔ Solar lighting electrical panels (where possible, solar electrical power is preferred for signs without easy electrical access).
- ➔ Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.

2. ADA recommendations suggest that signs faces be uniformly illuminated with between 100 to 300 lux (10 to 30 foot candles) of light and that the illumination level on the sign face is "not significantly exceeded by the ambient light or visible bright lighting source behind or in front of the sign." This is useful in that it provides a range of footcandles required to be visible by folks with visual limitations, however it is a TOTAL value, taking into consideration both the ambient lighting (streetlights, nearby bright signs, etc) and any light produced by the sign itself.

3. Ultimately, the amount of light emitted by the sign must overcome the ambient light in the surrounding without appearing overly bright or becoming a distraction/hazard to pedestrians or motorists and (based on location). Signs should have the ability to be adjusted by the fabricator to compensate for ambient conditions.

4. Three (3) samples of each material to be used on the sign using actual substrate materials should be supplied. One sample will be returned, one sent to the Owner and one kept in the Designer's records.

5. A proofing document of final production keystroking for all sign messages to verify line breaks, character and word spacing, and interline spacing should be submitted. The proofs are to be scaled production art files, not full sized. Each layout is to be identified with the sign number.

6. The fabricator must prepare and submit a full-scale structural sample of the structure of auto directional signs. Sample must use final materials and include a complete horizontal cross section of the sign and at least 1' of height to show how the internal system works. Applicable material samples (#4 above) may be included in this structural sample if the fabricator desires, or the sample may be unfinished. This sample will be retained by the Designer.

7. The fabricator must submit a scaled 12" x 12" draft sample segment of the map insert product to the Designer for approval before producing the final map inserts. This includes samples for the linear map(s), the trail map, and the base area map. Samples will be for all map printing types, including direct printed maps and high pressure laminate maps.

8. Fabricator must submit a schedule detailing how far in advance artwork will be required for printed maps and directories.

9. Fabricator must provide weekly status reports to the Owner and Designer detailing fabrication and installation progress and the expected completion schedule. Fabricator/installer shall coordinate with Owner in advance of each construction work day.

F. Material Handling

The Fabricator is to pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage by every cause. Fabricator shall provide clear and legible identifying information on all product packaging to ensure proper on-site identification, delivery and installation.

G. Construction Methodology

The drawings call for a variety of fabrication techniques. The fabricator is provided leeway to fabricate the signs to meet the intent of the designs depicted by the drawings.

1. Sign faces are to be fabricated using steel/aluminum plate of varying thicknesses, as specified on design intent drawings, with a minimum thickness of .125 inches unless otherwise noted.
2. Sign cabinet seams shall be sealed to ensure they are watertight.
3. All finishes are to be satin/matte (as indicated) finish, free from fading, peeling or cracking. Paint preparation of all exterior metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or AkzoNobel published recommendations. Acceleration of the drying process is not allowed.
4. Except where approved otherwise by Owner, conceal fasteners.
5. Any sign faces smaller than 8' by 4' are to be fabricated from 1 piece of seamless material. Where materials need to be seamed, there shall be no visible joints or weld marks.
6. On welded joints, dimensional and structural welding defects will not be accepted, including but not limited to: poor weld contours, including excessive bead convexity and reinforcement, and considerable concavity or undersized welds; cracks; undercutting; porosity; incomplete fusion; inadequate penetration; spatter; and non-metallic inclusions. Welding is to be performed by AWS (or similar) certified personnel, following AWS Standard Welding Procedure Specifications (SWPSs) for steel, aluminum, and stainless steel as appropriate.
7. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
8. Provide drain holes to prevent accumulation of water within signs. Holes must be inconspicuous and be in inconspicuous locations; holes must be located such that drainage does not occur onto signs, or other surfaces subject to staining. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs. Provide permanent color-coordinated insect screening over drain holes.
9. Non-illuminated sign faces are to have lettering and graphics direct printed, minimum 5-year warranty, unless otherwise noted in the design intent drawings (such as dimensional lettering specified for the gateways and other sign types).
10. High pressure laminate panels with embedded artwork are to be printed at a minimum of 1200 DPI using exterior inks. The panel must be a solid, one-piece panel with all graphic elements inseparable from the substrate in which they are embedded (izone, 888.464.9663).
11. Digitally printed graphics are to be printed at a minimum of 1200 DPI using exterior inks and covered with exterior grade, graffiti resistant clear lamination.
12. Visible metal joints must adhere to a fit tolerance of .01".
13. Aluminum and steel components are to be isolated to prevent galvanic corrosion.
14. Steel components are to be powder coated per the coating manufacturers specifications to prevent corrosion.
15. Construction materials (i.e. metal) shall not be reflective.

H. Fonts/Typefaces

The fonts used for this project were selected specifically for this project by the Designer and Owner, and include those listed in the graphic standards.

It is the responsibility of the fabricator to purchase the fonts.

No substitution of any other typefaces may be made. Under no circumstances are typefaces to be electronically distorted ("squeezed" or "extended") for purposes of fitting to the specified sign or general alteration of the sign face composition unless noted in the drawings. This includes (but is not limited to) stretching, squeezing, tilting, outlining or shadowing.

1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means. Hand-cut characters are not acceptable. Cutting shall be done in such manner that edges and corners of finished
2. letterforms will be sharp and true. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.
3. All letterforms shall be made from material and gauge as indicated on design intent drawings. Typefaces shall be replicated as indicated on the drawing.
4. Ligatures are to be turned off.
5. Apostrophes are to be used, not footmarks. Note that there is a difference in most fonts.
6. Silk-screened and vinyl copy is to match the sheen of the copy panel background (satin or matte). Edges of letters shall be straight and corners sharp. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.
7. Silk-screened images shall be executed with photo screens prepared from original art. No hand-cut screens will be accepted. Original art shall be defined as artwork that is a first generation reproduction of the specified art.
8. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage. Screens shall be photographically produced. Application of inks through screens shall consist of one flood pass and one print pass. Images shall be uniform in color and ink thickness. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height. Signs shall be placed in adequate drying racks with minimum of 2 inches between racks for ample airflow. Sign racks shall have system of forced airflow between layers to provide proper drying and curing of inks. After signs have dried completely according to the ink manufacturer's time allowance, signs may be packaged.
9. The edges and corners of routed dimensional and vinyl letterforms shall be sharp and true. Letterforms with nicked, cut, ragged, rounded (positive or negative) corners, and similar disfigurements will not be acceptable.
10. Letterforms shall be aligned so as to maintain a base line parallel to the sign format, with margins and layout as indicated on design intent drawings and approved shop drawings. Vertical strokes shall be plumb.
11. Mechanically fasten center of letters to surface materials as described in the design intent.
12. Vinyl graphics and letterforms shall be computer-cut.

I. Town Codes, Permits and Variances

Fabricator shall be knowledgeable of relevant local code requirements and honor same in fabrication and installation. Where applicable, it is the responsibility of the Fabricator to secure any and all necessary permits for signage installation. It is the responsibility of the Owner to secure variances, should any be required. It is the Owner's responsibility to call the appropriate agency to have all underground utilities properly located and marked. Any damage to below-grade utilities or structures for which the Owner has provided adequate location information is the responsibility of the Fabricator.

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY[f]	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP[e]	ICE BARRIER UNDERLAYMENT REQUIRED[b]	FLOOD HAZARDS[g]	AIR FREEZING INDEX[i]	MEAN ANNUAL TEMP[j]
	Speed[d] (mph)	Topographic effects[k]		Weathering[a]	Frost line depth[b]	Termite[c]					
155	90 (3 sec) 75 (fastest mile) exposure C	no	C	Severe	36"	Slight	-16F	Yes	N/A	3500	35F

J. Site Visit

Prior to installation of the signs, the Fabricator is to visit the proposed site to observe existing conditions and verify all signage required and its location with Owner. At this time the locations shall be staked using a non-permanent visible device such as spray chalk or non-permanent paint. Certain signs may be located on sloped grades and may require uneven footings for each post. Site-verify all locations to determine special requirements for footing templates, if required.

The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location and compatibility for each sign. Any necessary adjustments will be made with the approval of the Owner.

K. Masonry/Footings

Any concrete bases for signage are to be poured in place and footings are to extend beneath the frost line (Owner frost depth code requires 36-inch depth), or deeper to meet local requirements. All footings or bases shall be poured within a form and level with grade unless otherwise specified in the final design drawings. In locations where sloped surfaces require exposure of the concrete footing/base, the exposed concrete shall have a light broom finish and be colored in 242 Sandstone (https://www.denverconcretecompany.net/concrete-services/stamped-concrete/concrete-colors.html) as noted in the drawing specifications. Foundation/footings should be level with grade unless otherwise noted or as specified by state or local code. Foundation/footings shall not extend above and exposed edges shall be finished with a bevel to prevent chipping. To meet industry best practices, the concrete shall be floated by machine or hand before finishing in order to embed larger aggregates especially when part of the footing or base extends above ground. Concrete surface shall have a light broomed finish grade appearance. All concrete bases and footings should be edged to break any bond with the form and create a neat appearance. All forms shall be removed once the concrete has properly cured. Concrete and reinforcement specifications shall be shown on shop drawing submittals. The fabricator is responsible for the necessary templates, mounting plates and hardware for concrete and masonry bases.

All masonry (concrete block, poured concrete, river rock, slab, veneer, mortar, etc.) is to be properly treated and protected to maintain the structural integrity of the masonry work with exposure to all environmental conditions found at the site. For exposed or visible masonry, this shall include the application of protective sealers or similar finishes to diminish the effects of close-proximity sprinkling or irrigation systems.

Signs are to be mounted on J-bolt/breakaway footings, centered on the concrete base or footing, and engineered per code, unless otherwise specified in the design intent drawings.

L. Wind Load

Signs, banners and mounting devices shall be engineered to meet Town of Mt. CB 'Climate & Geographic Design Criteria' regarding wind loads for signage design and installation. The Fabricator shall determine appropriate method of anchoring signs to the locations specified to meet these requirements as well as all local code requirements.

M. Mounting

All signs to be mounted level and true. All exposed hardware is to be touch-up painted on site as required. It is preferred that all bolts, nuts, washers, or other fasteners shall be stainless steel. However galvanized steel is acceptable, so long as all exposed surfaces are sealed.

While sign type drawings may specify or indicate possible mounting and/or mounting hardware details, the fabricator will be able to substitute equal or better hardware and techniques, based upon their experience with similar mounting situations and as long as the visual and structural appearance of the sign is not compromised from that shown in the design intent drawings.

All signage products must be installed such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding,

sticking or blocking. It will be the responsibility of the Fabricator to correct any installation misalignments at no charge.

Fabricator and their installers are expected to have knowledge of ADA mounting guidelines and Town zoning codes, general sign locating practices, and any particular unique installations defined by Designer. It is the desire of the Owner that the fabricator follow these guidelines as well as architectural cues in installing for the best visual placement, keeping a reasonable distance from protruding objects. Any signage that is improperly located is to be moved to the proper location by the fabricator, and repairs to wall surfaces and signage are to be at the fabricator's expense.

Specific locations provided within this document are the preferred locations of the Designer, but those locations may be adjusted by the fabricator and Owner per written agreement with the Fabricator as necessary (for example, to avoid underground utilities or meet standard roadway offset requirements). If the Installers are unable to make a decision about any sign location(s), they shall notify the Owner and contact the Designer to provide a graphic representation of the questionable location(s), for the purpose of getting Owner and Designer site approval.

N. Town Design Standards & Coordination

The Town regulations and standards for signage and lighting systems is found in Chapter 16 and 21 of the Town Code.

O. Demolition

The fabricator is responsible for the removal and disposal of certain signs if identified in the sign message schedule. In addition to the above grade sign removal the sign foundations, sign anchors and posts must also be removed. If there are electrical connections, they must be properly terminated.

P. Site Safety and Restoration

During the installation period, the fabricator is responsible for their own safety, and shall maintain a safe environment for pedestrians. The fabricator is to keep the Owner's premises and the adjoining premises, driveways and streets clean and clear. The job site shall be left safe, neat and clean at the completion of each day's operation. The fabricator is also expected to temporarily maintain old signs in order to continue their directional and identification functions, as well as to maintain signage that meets MUTCD standards during the installation period. At the completion of work, the fabricator shall remove all rubbish, tools, equipment, and surplus materials, from and about the premises, and shall leave the site as originally found. The fabricator shall be responsible for repairing or correcting damage resulting from Installer's work.

Q. Punchlist

It is required that the fabricator complete a walk through with the Owner immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner. The Owner and Fabricator/ Installer shall jointly prepare a 'punchlist' of project installation deficiencies to be corrected by the Fabricator/Installer within a period of time specified in agreement by the Owner and Designer.

R. Signage Removals

There are several existing signs that will need to be removed prior to installation of the new signage. These removals may be undertaken by the Town of Mt. Crested Butte, but a separate addition-alternative bid shall be provided by the fabricator for removal of these signs. The number, type, and location of all signs to be removed can be found as a separate layer in the provided Google Earth file: https://earth.google.com/earth/d/1CJ2H9FW2DFFmwEl3aUpTnKcTeMcKq0kJ?usp=sharing

S. Signage Warranty Plan

Fabricator is solely responsible for applying products (paints, finishes, components, etc.) according to manufacturers' specifications and validating the warranty. The fabricator is to provide a written five (5) year full replacement warranty to the Owner that all signs will be free of defects due to craft work and materials including, but not limited to:

- bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges;
- corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage);
- corrosion of fasteners;
- assemblies not remaining true and plumb on their supports;
- fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period;
- peeling, delamination or warping ("oil canning"); and
- repair and reinstallation of signage due to failed mountings.

Fabricator shall provide and extend in writing to the Owner all manufacturers' warranties for materials and components used within the signs. It is the fabricator's responsibility to obtain extended 5-year manufacturer warranties on all powder coat applications. Warranty issues will be addressed by the fabricator within a 2-day time period (either through email communication or a phone call). All warranty agreements shall be summarized into a warranty plan and delivered to the Town for review and comment.

T. Repair or Replacement

Without additional cost to the Owner, the fabricator shall repair or replace, including installation, any defective signs or hardware that develop during the warranty period and repair any damage to other work due to such imperfections. The fabricator will be required to fully replace any and all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that were submitted to the fabricator upon award of contract. Replacement of any warranty items shall occur within a 60-day timeframe.

U. Construction Safety & Traffic Control Plan

The Contractor shall arrange Work to disrupt traffic as little as possible. All traffic Control Devices used shall conform to the latest edition of the Manual of Uniform Traffic Control Devices, (MUTCD). Except as otherwise permitted, two-way traffic shall be maintained at all times in public roadways (see the Bidding Resources document, Attachment B for expanded Traffic Control information).

V. Maintenance Plan

Fabricator is responsible for providing maintenance and inspection of the signage for a 1-year time period, extendable for up to a 5-year period. Maintenance responsibilities will include cleaning and inspection of the signage, creation of a punchlist for any needed repairs and/or replacements, and estimated costs and timeframes for the repairs/replacements. Inspection and punchlists will be performed every 6 months for the first year period. Owner representatives shall accompany the Fabricator during the first year signage maintenance and inspections to provide guidance and direction regarding the inspection and maintenance of the installed signage. The Fabricator will provide the Owner with an inspection and maintenance punchlist after the first year, along with projected costs to continue yearly inspection and maintenance of each sign type as agreed upon.

06
Color, Typography & Artwork

Sign Color/Materials Palette

Fabricator is responsible for supplying samples for all colors/materials in the palette. These are the colors specific to the Phase 1 signs. Colors are referenced on the signage design elevations.

01 **PMS P 17914U**
Satin Finish Powdercoat (non reflective)
RGB: R65/G64/B66
CMYK: C0/M0/Y0/K90

02 **PMS P BA3D26**
Satin Finish Powdercoat (non reflective)
RGB: R186/G61/B38
CMYK: C19/M89/Y100/K10

03 **PMS P 8EB781**
Satin Finish Powdercoat (non reflective)
RGB: R142/G183/B129
CMYK: C48/M12/Y62/K0

04 **PMS P 1787C8**
Satin Finish Powdercoat (non reflective)
RGB: R23/G135/B200
CMYK: C81/M38/Y0/K0

05 **PMS White**
Satin Finish Powdercoat (non reflective)

06 **QPC Specify (specifyQPC.com)**
Color: Pipe Rust
Finish: Matte Powdercoat (non reflective)

07 **Clear Coat**
Anti-Graffiti Clear Coat (non reflective)
(On All Powdercoated Sign Faces/ Surfaces/Lettering)

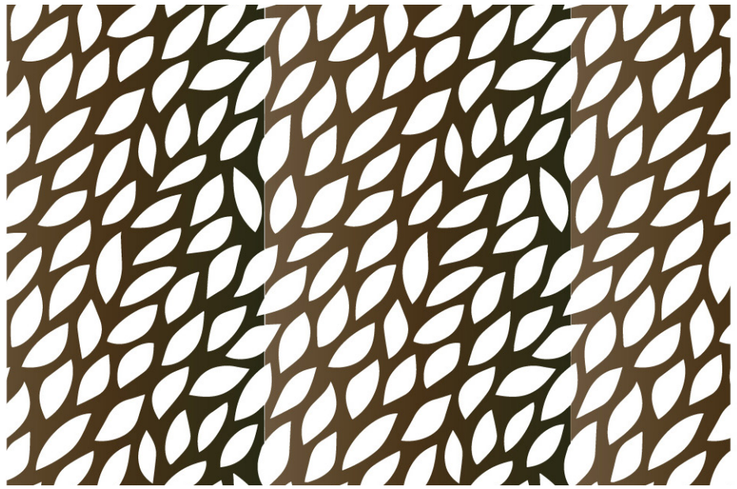
08 **Reflective White**
ORALITE 5800 White
(Sign Text)

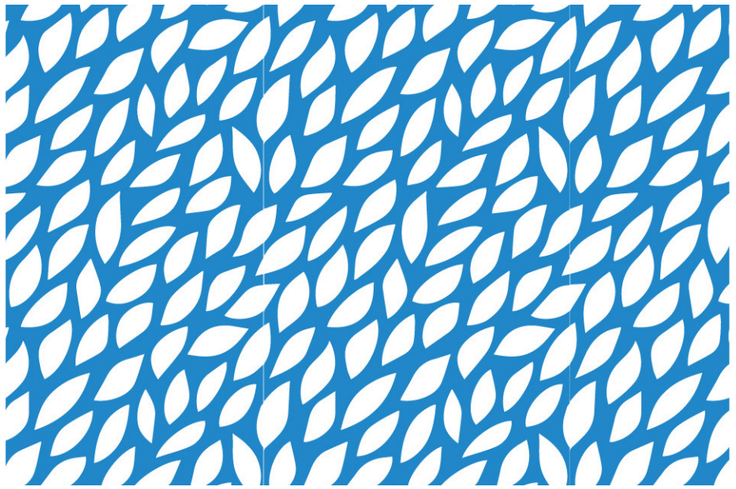
09 **LuciteLux Frost Color Acrylic**
7T1F Azure Blue DP95 Frost

10 **Colored Concrete, Light Broom Finish**
Denver Concrete - Sandstone (242)
(Any exposed signage footers)

11 **LED Tape to Illuminate Electrified Signage**
(Static warm white light with maximum 96 watts for soft glow lighting)

12 **LED Lighting Driver**
Installed in the access area of each ski-tree sign (used to provide power to LED Tape lights)





Typography

Fabricator is responsible for acquiring all listed fonts.

Rustica Medium

Rustica Medium is used for the "MtCB" logo letters. A clear and legible script, Rustica Medium should be limited to headings and subheadings rather than for body text.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Rustica Regular

Rustica Regular is used for the "MtCB" logo letters. A clear and legible script, Rustica Regular should be limited to headings and subheadings rather than for body text.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Myriad Pro Bold

Myriad Pro Bold is used for the signage and wayfinding text. The bold option is used for significant signage titles.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Myriad Pro Regular

Myriad Pro Regular is used for the signage and wayfinding text. The regular option is used for secondary signage titles.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Artwork

All artwork shown in the document is for placement only – it is the responsibility of the Fabricator to obtain original vector art from the Designer. The Designer will provide all original vector art and photography to the Fabricator via FTP, Dropbox, or other electronic means.

07

Mt. Crested Butte Logo Updates

UPDATED COMMUNITY LOGO

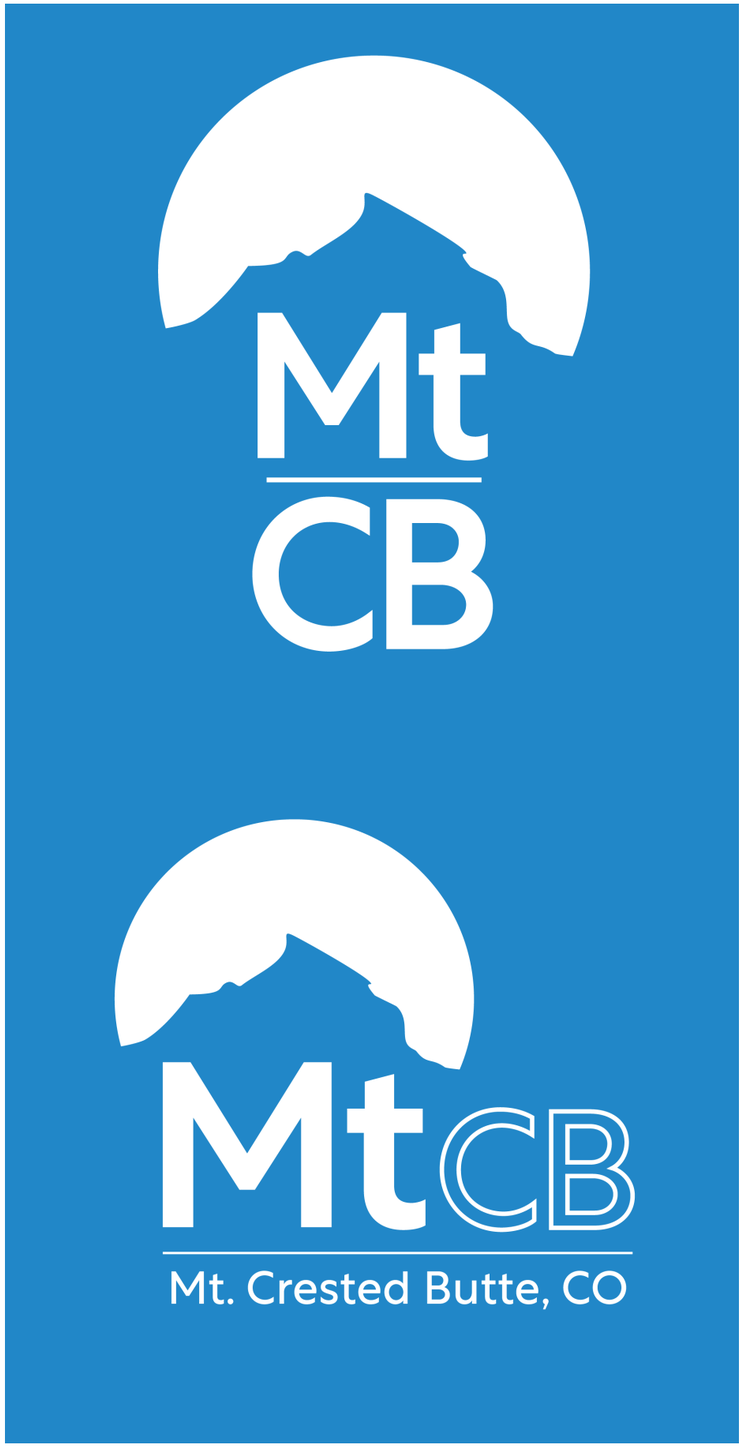
Representing Mt. Crested Butte's Character and Sense of Community

The new Mt. Crested Butte logo updates were designed to provide an update of the current community logo. The new logo designs reflect the symbolic importance of the Crested Butte mountain peak, the bluebird Colorado sky, and the popular "Mt. CB" community shorthand.

In addition to being applied in new community business card and letterhead designs, the revised Mt. Crested Butte logo was also used to update the final signage and wayfinding designs.

Primary Logo Design

The revised logo includes a silhouette of the Crested Butte mountain peak, with the shortened "Mt CB" nested underneath.



LOGO & WAYFINDING COLOR PALETTE

The blue and dark gray of the logo are the primary colors. The secondary colors can be used for logo background materials or other marketing designs. The color palette is also used in the final signage and wayfinding design palette. The following wayfinding color designations are used for the Phase 1 signage:

Mt. CB BLUE (auto directional)
Pantone 1787C8

RGB: R23/G135/B200
CMYK: C81/M38/Y0/K0

Mt. CB GREEN (trail wayfinding)
Pantone 8EB781

RGB: R142/G183/B129
CMYK: C48/M12/Y62/K0

Mt. CB RED ('you are here' trail wayfinding graphic)
Pantone BA3D26

RGB: R186/G61/B38
CMYK: C19/M89/Y100/K10

Mt. CB Dk. Gray (dark wayfinding text)
Pantone 17914U

RGB: R65/G64/B66
CMYK: C0/M0/Y0/K90

TYPE FACE

The typeface selected for the Mt. CB brand were chosen to reflect the friendly, open-minded nature of the Mt. CB community.

Rustica Medium

Rustica Medium is used for the "MtCB" logo letters. A clear and legible script, Rustica Medium should be limited to headings and subheadings rather than for body text.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Rustica Regular

Rustica Regular is used for the "MtCB" logo letters. A clear and legible script, Rustica Regular should be limited to headings and subheadings rather than for body text.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Myriad Pro Bold

Myriad Pro Bold is used for the signage and wayfinding text. The bold option is used for significant signage titles.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

Myriad Pro Regular

Myriad Pro Regular is used for the signage and wayfinding text. The regular option is used for secondary signage titles.

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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MtCB
Mt. Crested Butte, CO