Design guidelines for the implementation of signage, display and print materials for the Delaware & Lehigh National Heritage Corridor.
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LG = Logo - Logotype Graphics
SG = Signage Graphics
DG = Display Graphics
PG = Print Graphics
MG = Map Graphics
Delaware and Lehigh
National Heritage Corridor

On behalf of the Delaware and Lehigh Canal National Heritage Corridor Commission and the dedicated partners who worked on this project, I present this manual. In it you will find the visual elements that define the Delaware and Lehigh National Heritage Corridor and State Heritage Park. Directional signs lead visitors to landings, interpretative signs provide people with pieces of the story, and orientation kiosks encourage visitors to stay a while. We hope you will take time to look through this manual, selecting elements you would like to use, and join with others within the Corridor to place an order. We are ready to begin inviting visitors to the sites currently open to the public and look forward to recognizing new sites in the future. Join me in linking the story line together as we lead visitors and residents through the Corridor.
TOUCH THE RIVER

For centuries, we have stood upon the banks of the Delaware and Lehigh Rivers answering the call to live within their reach and bounty. We cleared trees from the flat, fertile lands for farms, and we farmed and developed the hillsides, too. Homes, factories, stores, highways, schools and other structures are built on once open land. We also harnessed the energy of our rivers for our business and pleasure. Our communities converted much land along the Delaware and Lehigh Rivers into uses suiting our needs in many ways.

Yet in some ways we feel strangely unsatisfied and vaguely uneasy about the future. What will it be like to live here 50 or 100 years from now when our resources are less abundant, when our population is much greater and there is even less open space for people to enjoy, to get away from the pressures of city life?

The Delaware and Lehigh National Heritage Corridor and State Heritage Park is a reservoir of natural, cultural, historic, recreational and economic resources that comprise our heritage. Scenic rivers, historic canals and towns, mountains, green valleys, natural and man-made recreation areas, the footprints of early industries, even a distinctive social and religious heritage— are the essence of the Corridor physically. And, as we now recognize, our surroundings, built and natural alike, have an immediate and continuing effect on the way we feel and act, and on our health and intelligence. These places affect our sense of self, our sense of safety, the kind of work we get done, the ways in which we interact with other people— even our ability to function as citizens in a democracy. The places where we spend our time influence who we are and what we become.

Yet, if the Lehigh and Delaware Rivers could speak, they would tell us that “we, who have been brought here by the river, are our own greatest resource.” To be good stewards of the heritage represented in the D & L Corridor, each of us must focus our minds on what our future in and along the Corridor will be like, and what we can do now to improve that future.
What kind of place will the children of our children see when they walk through our communities decades from now? What will they think of our stewardship of the bounty of resources that were in our care during a time when the restoration of some natural grandeur was still possible?

The Delaware and Lehigh National Heritage Corridor and State Heritage Park will answer those questions for the next generations. The Corridor provides a "sense of place" as it connects 150 miles of Pennsylvania communities.

The measure of our success as a community will be determined by how we use our lands and the value we place on our surroundings – our ability to recognize, preserve and connect ecology, economics, energy and aesthetics, all of which we view in the light of our human needs, regional tastes and activities, and personal aspirations. We preserve ourselves by preserving the land. The Delaware and Lehigh Canal National Heritage Corridor was created to help balance our community’s needs with our personal needs and desires.

The Corridor theme is developed in a family of signs and brochures designed to help residents and guests, alike, identify and link the various entities within the Corridor. They encourage us to understand the role the rivers, landscape, people, and industry play in our lives. And, remind us that this river valley is unique.

The Corridor guidelines offer opportunities for you to walk its trails, visit its historic sites, play and relax in its special places. Look through the notebook and take time to think about the Corridor, its importance and potential as our legacy to future generations. Then join the move toward our future.

The message of the Delaware and Lehigh National Heritage Corridor and State Heritage Park itself is the message heard by those who came first came here to: Touch the river.
The Delaware and Lehigh National Heritage Corridor is rich, complex and diverse with many cultural, industrial and institutional sites and attractions. The purpose of this program is to make these resources accessible and clear to the public. To achieve this goal a wide array of signage, display and print materials have been developed. The implementation of this program, its ongoing management and financing are not a part of these guidelines. For information concerning these areas contact the Corridor Commission at (610) 861-9345 or write to 10 East Church Street, P-208, Bethlehem, PA 18018.

These design guidelines describe and specify the elements that have been developed for the system. As listed in the table of contents there are many products and tools at your disposal. Each has a prescribed use and function. It is important to the success of this program that all specifications be adhered to. There are to be no changes or modifications to these guidelines without the express written permission of the Corridor Commission.
Typefaces approved for use in all aspects of this program

International symbols approved by the Society for Environmental Graphic Design for use in all signage
DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

3.02  TYPEFACES

Note
-no substitute typefaces will be accepted.

Typeface
-typeface is Adobe Serifa bold and light.
-normal kerning
-refer to specific applications for type sizes and leading requirements.
-typeface available from Adobe Systems Inc.
(800)445.8787

ABCD EFGHIJKLMNOPQRSTUVWXYZ
abcdefg hijk lmnopqrstuvwxyz
1234567890
Serifa  bold

ABCD EFGHIJKLMNOPQRSTUVWXYZ
abcdefg hijk lmnopqrstuvwxyz
1234567890
Serifa  light
**TYPEFACES**

Note
-no substitute typefaces will be accepted.

Typeface
-typeface is Adobe Serifa roman and italic.
-normal kerning
-refer to specific applications for type sizes and leading requirements.
-typeface available from Adobe Systems Inc. (800)445-8787

**Serifa roman**

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

Serifa italic

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890
Note
- no substitute typefaces will be accepted.

Typeface
- typeface is FontShop Meta bold and Meta caps.
- typeface is available from FontShop USA, (800) 387-3872
- refer to specific applications for type sizes and leading requirements.
Note
-no substitute typefaces will be accepted.

Typeface
-typeface is FontShop Meta normal.
-typeface is available from FontShop USA, (800) 387-3872
Serifa Bold - Use for Historical Markers, Trailblades, and Entrance Identifications

Moon Williamson
Too Open
Unacceptable Letterspacing

Moon Williamson
Acceptable Letterspacing

Moon Williamson
Too Tight
Unacceptable Letterspacing

Meta Bold - Use for Directional Vehicular and Trailblazer

Lehigh County
Too Open
Unacceptable Letterspacing

Lehigh County
Acceptable Letterspacing

Lehigh County
Too Tight
Unacceptable Letterspacing
Serifa Bold - Use for Wayside Panels

Mules and Men
Too Open
Unacceptable Letterspacing

Mules and Men
Acceptable Letterspacing

Mules and Men
Too Tight
Unacceptable Letterspacing

Meta Normal - Use for Wayside Panels

1831-1932
Too Open
Unacceptable Letterspacing

1831-1932
Acceptable Letterspacing

1831-1932
Too Tight
Unacceptable Letterspacing
Meta Caps - Use for Wayside Panels

MULE POWER
Too Open
Unacceptable Letterspacing

MULE POWER
Acceptable Letterspacing

MULE POWER
Too Tight
Unacceptable Letterspacing
S Y M B O L S

Notes
-no substitute arrows or symbols will be accepted.

Arrows
-Commission will provide successful bidder with arrow artwork on Macintosh computer disk.

Symbols
-acceptable system of symbols is available on Macintosh computer disk from:

The American Institute of Graphic Arts
1059 Third Avenue
New York, NY 10021
(212) 757-2613

Society for Environmental Graphic Design
One Story Street
Cambridge, MA 02138
(617) 868-3381
Options, variations in scale and color
Correct and incorrect uses
The symbol is the nucleus of this identity program. It captures the essence of the Corridor's rich history and at the same time serves as a beacon for future opportunity and growth in the region. It combines elements that represent landscape and industry. The mountains, river and canal, juxtaposed against the horizon-like fires of industry and the mechanical gear refer to the earliest beginnings of the Delaware and Lehigh Valleys. The serif typeface which surrounds the symbol, is derived from a mid-19th century typeface known as Egyptian. It evolved at a time when printers' types began to depart from handwritten qualities for sturdier, block like machined ones. While the landscape elements used in the symbol have historical significance they are also essential to the present and future character of the Corridor. The design is essentially modern and it is the combination of historical elements and a contemporary expression that give the symbol spirit, relevance and longevity.

As the official imprimatur for the Delaware and Lehigh National Heritage Corridor it must be implemented with care and respect. In order to insure its success it is essential that the standards on the following pages be adhered to.

The symbols shown on the following pages have been prepared in both Macintosh and DOS based computer formats.
The logo of the Delaware and Lehigh National Heritage Corridor and State Heritage Park shall be used to identify the Corridor and its component facilities and promote the Corridor as a unified whole made up of the sum of its parts (facilities). For the purposes of this statement, facilities are those sites, buildings and interpretive structures open to the public, whether a fee is charged or not. This includes, but is not limited to, museums, historic sites, environmental education centers, visitor centers, rest areas, parklands, trails, motels, restaurants and service stations.

**Conditions**

1. The logo is registered for the sole use of the Corridor Commission. Permission to use it, or licensing of its use, can only be authorized by the Corridor Commission.

2. The logo is displayed on any project funded in whole or in part by the Corridor Commission.

3. The logo cannot be used without the expressed permission of the person or agency having jurisdiction over the facility.

4. Use of the logo for commercial purposes, such as T-shirts, souvenirs, etc., can only be approved by the Corridor Commission. Permission for commercial use shall be based upon the Corridor Commission’s approval of compatible use supporting the Corridor’s mission. Financial considerations must be negotiated prior to application and/or use.

5. Permission to use the logo may be rescinded if not being applied under conditions stipulated in granting permission for its use.

6. Brochures, pamphlets and educational materials produced cooperatively by the Corridor Commission with other groups will display the logo. The materials prepared by others must be reviewed for content and presentation before permission to use the logo is given.

7. Permission or licensing for logo use does not imply Corridor Commission endorsement of an event, mission or product.
Procedures

1. Each use request must be made in writing.

2. Instructions on the use and application of the logo for all projects funded by the Corridor Commission (or matching grant recipients) are written by the Executive Director and available at the same time grant award notification is made.

3. Commercial use will be reviewed by the Corridor Commission’s Executive Committee, followed by a written recommendation, approval or refusal.

4. Non-commercial uses are reviewed and approved by the Executive Director. Denial of use may be appealed to the Corridor Commissioners, in writing, with full disclosure about proposed logo usage.
This symbol has been drawn for use in large scale signage applications only. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the signage application the smallest diameter is 5" and the largest diameter is 36".

For Historical Markers and Trailblades in which the symbol is smaller that 5" diameter use the print application LG.4.06.
This symbol has been drawn for use in print applications only. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the print application the smallest desirable diameter is 3/4" and the largest desirable diameter is 5".

In the event a print application requires a diameter larger than 5", use the large scale signage application LG.4.05.

When this symbol is properly reproduced at the standard 2400 dpi used for all print applications the resolution of the symbol will be correct and sharp.

When used on printed materials, this symbol will always be accompanied by the statement "A Federal, State and Local Partnership". Refer to the section on printed materials for further details.
This symbol has been drawn for use in computer laser applications only with a minimum output of 300 dpi. This application should not be used in sizes that exceed the parameters outlined here otherwise the symbol will not reproduce properly. In using the laser application the smallest desirable diameter is 1" and the largest desirable diameter is 2".

In the event a laser application requires a diameter larger than 2", use the print application LG.4.06.

1" minimum

2" maximum

Date 7.95
Title Laser applications
Note Actual size
<table>
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<th>Type</th>
<th>Description</th>
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<td>Directional Vehicular</td>
<td>Single or double sided aluminum panels for directing visitors from interstate roads, highways and secondary roads to landings, museums and other areas of interest along the Corridor.</td>
<td>SG.5.03</td>
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<tr>
<td>Pedestrian Historical Marker</td>
<td>Single sided aluminum panels that carry &quot;on this spot&quot; historic vignettes and images.</td>
<td>SG.5.06</td>
</tr>
<tr>
<td>Identification</td>
<td>Single or double sided freestanding identification signs used to announce the name of the site or institution and provide information to the general public about schedule and admission.</td>
<td>SG.5.09</td>
</tr>
<tr>
<td></td>
<td>One sided discs used to retrofit existing entrance signs to identify participating institutions as members of the heritage family.</td>
<td>SG.5.14</td>
</tr>
<tr>
<td>Auto Trail</td>
<td>Single sided discs used to define a designated auto tour. Single or double sided panels used to identify a site or stop along an auto tour.</td>
<td>SG.5.16</td>
</tr>
<tr>
<td>Pedestrian Trail Entrance</td>
<td>Single sided aluminum blades used to provide pedestrian directional information, brief site specific descriptions, and trail quality guidelines.</td>
<td>SG.5.21</td>
</tr>
<tr>
<td>Changeable Messages</td>
<td>Interior information signs that can be permanent or temporary. They may carry special events, program information, or announcements and be used to identify a building, space or function.</td>
<td>SG.5.24</td>
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Pedestrian Historical Marker SG.5.06
Auto Trail Stop SG.5.17
Auto Trail SG.5.20
Directional Vehicular SG.5.03
Lehigh County Museum
Lehigh County Museum
Frank Buckman House
Lehigh County Museum
Trout Hall
Trout Hall

Pedestrian Trail Entrance SG.5.21
Main Entrance Identification SG.5.09

7.95
Signage - Overview
3/8" = 1'
Directional Vehicular
-Directional signs lead visitors to sites open during expected hours throughout the year. Typically this is a minimum of seven days during peak visitation periods and weekends during the off season.

-Message hierarchy as identified on the following pages refers to the order in which a message and its arrow should be applied to the sign.

-Specifications have been repeated on pages SG.5.04 and SG.5.05 so that individual pages can be excerpted from the manual for convenient use.
**Material & Fabrication**
- Signs can be single-sided only.
- Panels to be made of 3/16" aluminum.
- Posts to be made from 3" x 5" aluminum extrusion with a wall thickness of 1/8".
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post.
- All corners and edges ground smooth before painting.
- Finish to be weather, vandal and as graffiti resistant as possible with a minimum life of eight years without discoloration.
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges.

**Message Hierarchy**
- First: straight (\(\leftarrow\)); second: left (\(\leftarrow\));
- Third: right (\(\rightarrow\)); fourth: bear left (\(\leftarrow\));
- Fifth: bear right (\(\rightarrow\)).

**Color**
- Posts, cap, and top horizontal edge of sign: P2-Matthews LS-63694 satin.
- Sign panel including circular shape and rod attachment: P1-Matthews LS-52894 satin (all areas shown in black).
- Type symbol and arrows: die cut Scotchlite reflective white vinyl.

**Installation**
- Post is welded to sleeve plate which bolts to threaded \(\leftarrow\) hooks anchored in concrete.
- Bolts to be tamper proof.
- Option: 14' pole for direct burial in ground or wet concrete (1' in, 11' above).
- For direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height.
- Location to be verified by fabricator and client representative and approved by Pennsylvania Department of Transportation.
DELTA & LEHIGH
NATIONAL HERITAGE CORRIDOR
SIGNAGE

Material & Fabrication
- Signs can be single sided only
- Panels to be made of 3/16" aluminum
- Posts to be made from 5"x5" aluminum extrusion with a wall thickness of 1/8"
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- All comes and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Message Hierarchy
- First: straight (1');
- Second: left (L);
- Third: right (R);
- Fourth: bear left (L);
- Fifth: bear right (R)

Color
- Post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin
- Sign panel including circular shape and rod attachment: P1-Matthews LS-52894 satin (all areas shown in black)
- Type symbol and arrows: Die cut Scotchlite reflective white vinyl

Installation
- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- Bolts to be tamper proof
- Option: 14' pole for direct burial in ground or wet concrete (3' in, 11' above)
- For direct burial in ground or wet concrete where a lower sign height is desirable use 11' post and install to desired height
- Locations to be verified by fabricator and client representative and approved by Pennsylvania Department of Transportation

SG.5.05
Pedestrian Historical Marker

- Pedestrian Historical Markers for interpretive wayside exhibits. They are to be used in urban areas where Standard Wayside Exhibits (DG 6.02-.20) are not practical. They typically describe what happened "on this spot" years ago. Local artists can line draw what the site looked like at the time the described incident took place.

Note

- Marker height shown is from top of sign to base plate shown on SG.5.08 and should be used when locating signs in the pedestrian right of way.
- Where site conditions allow installation of sign without need for base plate, another option is a 14' pole for direct burial in ground or wet concrete (3' in, 11' above).
- For markers where a lower height is desirable, i.e. on property set back or behind a fence or garden wall etc., a 9' pole for direct burial in ground or wet concrete (3' in, 6' above) can be used.
- These pole dimensions can be modified to suit conditions. When selecting a pole height (other than specified here) the rule of thumb is approximately 1/3 of the total pole height should be buried in ground or wet concrete leaving the remaining 2/3 above ground.
- Markers must meet applicable local safety codes.
**Historic Fallsington**

**Moon Williamson Log House**

Quaker Samuel Moon resided here in the late 1700s and early 1800s. As a well known carpenter, he was particularly skilled in making Windsor chairs. This celebrated and prized antique originally served as function furniture in public buildings and taverns. The chair requires no screws or nails, with the distinctive stick legs and spindles back driven into the tank seat. The Windsor chair of Samuel Moon continues to live on in the museum and private collections of southeastern Pennsylvania.

**Breinig & Bachman Building**

The B & B, or Breinig & Bachman Building was a men’s clothing store that occupied the ground floor for many years. No one can say for sure why the gargoyle animal heads were added. Perhaps it was to resemble one of the building’s original long-time tenants, the wholesale grain and animal food wholesaler George H. Egbert. Built in 1925, this yellow bricked structure replaced a building of a similar name built three years before. The first B & B building was destroyed, along with the rest of the southeast side of the street, in a fire on the night of October 13, 1893.

**Old Court House County Museum**

In the Old Lehigh County Court House is The Lehigh County Historical Society, its library and museum. Local history exhibits in the museum’s first floor provide a background for the history of Lehigh County from prehistoric times up to the present. The Scott Trexler II Library is a vital source of historical and genealogical information. In the rear is the Geology Garden, which explains the mineral history of the Lehigh Valley.
Material & Fabrication
-all signs are one sided
-panels to be made of 3/16" aluminum
-posts to be made from 3 1/2" x 3 1/2" aluminum extrusion with a wall thickness of 1/8" 
caps of posts: 1/8" aluminum, welded, ground 
smooth and finished to match post
-all comers and edges ground smooth before painting
-finish to be weather, vandal and as graffiti
-resistant as possible with minimum life of eight years without discoloration
-panels, posts, and caps painted with 
Matthews acrylic polyurethane satin finish, 
face and all edges

Color
-post, cap and top horizontal edge of sign: 
P2-Matthews LS-63694 satin
-sign panel, rod attachment, symbol and type 
on top edge: P1-Matthews LS-55894 satin 
(all area shown in black)
-type symbol and arrows: die cut Scotchlite 
reflective white vinyl

Installation
-post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete 
-bolts to be tamper proof
-option: 14' pole for direct burial in ground or 
wet concrete (3' in, 11' above)
-for direct burial in ground or wet concrete where 
a lower sign height is desirable use 11' post 
and install to desired height
-location to be verified by fabricator and client 
representative

Title
Pedestrian Historical Marker - Detail
Scale
1 1/2"=1'
Historic Fallsington
Moon Williamson Log House

Quaker Samuel Moon resided here in the late 1930s and early 1940s. As a well-known carpenter, he was particularly skilled in making Windsor chairs. This celebrated and prized antique originally served a functional role in public buildings and taverns. The chair requires no screws or nails, with the distinctive stick legs and spindle backs driven into the plank seating. The Windsor chairs of Samuel Moon continue to live on in the museum and private collections of southeastern Pennsylvania.

Material & Fabrication
- All signs are one-sided
- Panels to be made of 3/16" aluminum
- Posts to be made from 3 1/2" x 3 1/2" aluminum extrusion with a wall thickness of 3/16"
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- All corners and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color
- Post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin
- Sign panel, rod attachment, symbol and type on top edge: P2-Matthews LS-52894 satin (all area shown in black)
- Type symbol and arrows: die cut Scotchlite reflective white vinyl

Installation
- When installing on an existing post, bolt through Bandit mounting bracket and band to post.
- Location to be verified by fabricator and client representative
Main Entrance Sign

Places wishing to indicate they are an important part of the story will want to identify with the Corridor by using these entrance signs. These signs announce to the visitor that they have arrived.
Material & Fabrication

- Signs can be single or double sided
- Panels to be made of .030 (alloy 5052) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- Panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- Panels to be made from 5/8" x 5/8" aluminum extrusion with a wall thickness of 1/8"
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- Channels to be 1" x 2", finish to match post
- All corners and edges ground smooth before painting
- No visible fasteners throughout, sign box to have clean seamless appearance
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- Post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin
- Top half of sign box, symbol, type on bottom half and both sides: Pi-Matthews LS-52894 satin (all areas shown in black)
- Type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

Installation

- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- Bolts to be tamper proof
- Location to be selected by client representative
Material & Fabrication

- Signs can be single or double sided.
- Panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning.
- Panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength.
- Posts to be made from 4" x 4" aluminum extrusion with a wall thickness of 1/8".
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post.
- Channels to be 1" x 2", finish to match post.
- All corners and edges ground smooth before painting.
- No visible fasteners throughout, sign box to have clean seamless appearance.
- Finish to be weather, vandal and graffiti resistant as possible with minimum life of eight years without discoloration.
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish.
- Face and all edges.

Color

- Post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin.
- Top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black).
- Type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl.

Installation

- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete.
- Bolts to be tamper proof.
- Location to be selected by client representative.

SG.5.11 SIGNAGE

DELWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

Date: 7.95
Title: Identification - Main Entrance
Scale: 1" = 1'
**Mauch Chunk Lake Park**

- **Boat Launch A** - Open Year Round
- **Swimming Area** - Memorial Day to Labor Day
- **Camping Area, Picnic Area** - April thru October

---

**Material & Fabrication**
- Signs can be single or double sided
- Panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning
- Panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength
- Posts to be made from 5 1/2" x 5/8" aluminum extrusion with a wall thickness of 1/8"
- Caps of posts: 1/8" aluminum, welded, ground smooth and finished to match post
- Channels to be 1" x 2", finish to match post
- All corners and edges ground smooth before painting
- No visible fasteners throughout, sign box to have clean seamless appearance
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges

**Color**
- Post, cap, channel connection, bottom half of sign and both sides as well as top horizontal edge: Pz-Matthews LS-63694 satin
- Top half of sign box, symbol, type on bottom half and both sides: Pi-Matthews LS-52894 satin (all areas shown in black)
- Type, symbol and arrows (if used): die cut Scotchlite reflective white vinyl

**Installation**
- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete
- Bolts to be tamper proof
- Location to be selected by client representative
Mauch Chunk Lake Park
Mon-Sat 9am - 5pm
Sun 12pm - 5pm
Closed holidays, except Memorial Day, July 4 and Labor Day

Material & Fabrication
- Signs can be single or double sided.
- Panels to be made of .090 (alloy 3003) aluminum sheet panels or heavier to ensure flatness and rigidity without oil canning.
- Panels are to be attached to an aluminum square tube frame, structurally reinforced as necessary to ensure stability and strength.
- Posts to be made from 4' x 4' aluminum extrusion with a wall thickness of 1/8".
- Caps of posts: 1/8" aluminum, welded, ground smooth, and finished to match post.
- Channels to be 1" x 2", finish to match post.
- All corners and edges ground smooth before painting.
- No visible fasteners throughout, sign box to have clean seamless appearance.
- Finish to be weather, vandal, and as graffiti resistant as possible with minimum life of eight years without discoloration.
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges.

Color
- Posts, cap, channel connection, bottom half of sign, and both sides as well as top horizontal edge: P2-Matthews LS-63694 satin.
- Top half of sign box, symbol, type on bottom half and both sides: P1-Matthews LS-52894 satin (all areas shown in black).
- Type, symbol, and arrows (if used): die cut Scotchlite reflective white vinyl.

Installation
- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete.
- Bolts to be tamper proof.
- Location to be selected by client representative.

DELWARE & LEHIGH NATIONAL HERITAGE CORRIDOR
SIGNAGE
SG.5.13
IDENTIFICATION - MAIN ENTRANCE

SCALE: 1" = 1'

Date: 7.95
Title: Identification - Main Entrance

Service: BLDG

Page: 5

Color
Time
Index
1" = 1"
Material & Fabrication
- All signs are one sided
- Tabbed disks to be made of 3/16" aluminum
- Posts to be made from standard U-channel extrusion
- All corners and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

Color
- Disk: Pi-Matthews LS-52894 satin
- Post: P2-Matthews LS-63614 satin
- Symbol: Die cut Scotchlite reflective white vinyl

Installation
- Tabbed disks to be bolted at top and bottom tabs into existing posts
- Where U-channel is required, tabbed disks to be bolted at top and bottom tabs through U-channel
- Where U-channel is required, for direct burial approximately 1/3 of channel height in ground or wet concrete
- See SG.5.18 for more complete specifications
Material & Fabrication
- all signs are one sided
- tabbed disks to be made of 3/16" aluminum
- posts (when required) to be made from standard U-channel extrusion see SG.5.18
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- disks and posts to be painted with Matthew's acrylic polyurethane satin finish, face and all edges

Color
- disk: Pi-Matthews LS-52894 satin
- post: P2-Matthews LS-63694 satin
- symbol: die cut Scotchlite reflective white vinyl

Installation
- tabbed disks to be bolted at top and bottom tabs into existing posts
- where U-channel is required, tabbed disks to be bolted at top and bottom tabs through U-channel
- where U-channel is required, for direct burial approximately 1/3 of channel height in ground or wet concrete
- see SG.5.18 for more complete specifications
Four lane or divided highway

<table>
<thead>
<tr>
<th>Site</th>
<th>Two lane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weatherly Historic Site</td>
<td>D&amp;L Drive Site</td>
</tr>
<tr>
<td>Wetlands Walking Tour Here</td>
<td>Audubon Tour</td>
</tr>
</tbody>
</table>

Auto Trail
-The D&L Drive links the Corridor by automobile the same way the D&L Trail does for hikers and bicyclers. The visitors and residents will follow the route by following the signs. Auto trails linking pieces of history by theme or interest will use the specialty tour signs. One descriptive word will be used on each trail indicating its uniqueness.
Auto Trail/Message Options

Scale 1" = 1'
Option 1: Direct bolt to U channel
Section of Post Detail
1/2 Full Scale

Option 2: Bandit mounting system
Section of Post Detail
1/2 Full Scale

Bandit Mounting Bracket

Bolt through tabbed disks
Opening for stainless steel base

Opening for stainless steel base

The Bandit mounting bracket is to be used when tabbaser disks are to be attached to pre-existing square or cylindrical posts.

Using pre-existing square or cylindrical posts eliminates the cost of a new U channel and reduces visual clutter in the environment.

---

SG.5.18
SIGNAGE

Material & Fabrication
-all signs are one sided
-tabbed disks to be made of 3/16" aluminum
-posts to be made from standard U-channel extrusion
-all corners and edges ground smooth before painting
-finish to be weather, vandal and graffiti resistant as possible with minimum life of eight years without discoloration
-disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

Color
-disk and symbols: Ps-Matthews LS-5,2894 satin (all areas shown in black)
-posts and disk centers: Ps-Matthews LS 63964 satin (all areas shown in grey)
-type, symbol and arrows: die cut Scotchlite reflective white vinyl (all areas shown in white)

Installation
-for direct burial in ground or wet concrete use 14" post (3' in., 12' above)
-tabbed disks to be bolted at top and bottom tabs through U-channel tabs to be used as vertical spacers along U-channel
-option: when installing on an existing post, bolt through Bandit mounting bracket and band to post
-locations to be verified by fabricator and client representative
**Option 1: Direct bolt to U-channel**

Section of Post Detail

- Full Scale

- Meta Bold: see page 3.04 center top to bottom and left to right within band
  
**Option 2: Bandit mounting system**

Section of Post Detail

- Full Scale

- Meta Bold: see page 3.04 center top to bottom and left to right within circle

---

**Material & Fabrication**

- All signs are one sided
- Tabbed disks to be made of 3/16" aluminum
- Posts to be made from standard U-channel extrusion
- All corners and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Disks and posts to be painted with Matthews acrylic polyurethane satin finish, face and all edges

**Color**

- Disk and symbols: Pi-Matthews LS-52694 satin (all areas shown in black - see SG.5.18)
- Post and disk centers: P2-Matthews LS-63694 (all areas shown in grey - see SG.5.18)
- Type, symbol and arrows: die cut Scotchlite reflective white vinyl (all areas shown in white - see SG.5.18)

**Installation**

- For direct burial in ground or wet concrete use 14' post (3' in, 11' above)
- Tabbed disks to be bolted at top and bottom tabs through U-channel
- Tabs to be used as vertical spacers along U-channel
- Option: when installing on an existing post, bolt through Bandit mounting bracket and band to post
- Locations to be verified by fabricator and client representative
Material & Fabrication

- Signs can be single or double sided.
- Panels to be made of 3/16\" aluminum.
- Posts to be made from 3 1/2\" x 3 1/2\" aluminum extrusion with a wall thickness of 1/8\".
- Caps of posts: 1/8\" aluminum, welded, ground smooth and finished to match post.
- All corners and edges ground smooth before painting.
- Finish to be weather, vandal and as graffiti resistant as possible with a minimum life of eight years without discoloration.
- Panels, posts, and caps painted with Matthews acrylic polyurethane satin finish, face and all edges.
- Delaware and Lehigh logo to center left to right on sign panel, message and arrow to align with left side of logo.

Color

- Post, cap and top horizontal edge of sign: P2-Matthews LS-63694 satin.
- Sign panel and symbols: P1-Matthews LS-52894 satin (all areas shown in black).
- Type, symbol and arrows: die cut Scotchlite reflective white vinyl.

Installation

- Post is welded to sleeve plate which bolts to threaded "J" hooks anchored in concrete.
- Bolts to be tamper proof.
- Option: 14\' post for direct burial in ground or wet concrete (3\' in, 11\' above).
- For direct burial in ground or wet concrete where a lower sign height is desirable use 11\' post and install to desired height.
- Location to be verified by fabricator and client representative.

Date: 7.95
Title: Auto Trail Stop
Scale: 1 1/2" = 1\".
Pedestrian Trail Entrance

- Trailblades indicate the beginning of a pedestrian trail. They provide the name and some background information. They also alert the prospective user to the level of difficulty, surface condition, grade and length.

Material & Fabrication

- All signs are one sided
- 1" x 2" solid aluminum support is welded to 5/8" aluminum blade
- All corners and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Blade painted with Matthews acrylic polyurethane satin finish, face and all edges

Color

- Vertical stripe and edge on left: Pz-Matthews LS-60394 (all areas shown as grey)
- Blade and support including right side: Pi-Matthews LS-52894 (all areas shown as black)
- Type and symbols: die cut scotch lite reflective white vinyl

Installation

- Post is welded to angle plates which bolt to threaded "J" hooks anchored in concrete
- Bolts to be tamper proof
- Location to be selected by client representative
- For direct burial approximately 1/3 of blade height in ground or wet concrete

Date

7.95

Pedestrian Trail Entrance

As noted
The first discovery of anthracite (hard coal) in America occurred at Summit Hill, two mountains west of Mauch Chunk, Pennsylvania (renamed Jim Thorpe to honor the famous athlete). Overland travel made the price of transporting hard coal too expensive so new railroad technology was used to transport coal to the nearest river, the Lehigh. The first U.S. railroad over five miles long linked the canal at Mauch Chunk with Panther Valley coal pockets. Mules strained to pull the coal-laden cars uphill, enjoying a free ride back down, compliments of gravity.

Eventually, as steam powered railroads assumed the task of delivering coal, and as word spread about the "first roller coaster ride" in the country, vacationers replaced coal as the agin_g griv line's primary cargo.

Material & Fabrication
- all signs are one sided
- 1" x 2" solid aluminum support is welded to 5/8" aluminum blade
- all corners and edges ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- blade painted with Matthews acrylic polyurethane satin finish, face and all edges

Color
- vertical stripe and edge on left: Pz-Matthews LS-60394 (all areas shown as grey)
- blade and support including right side: Pt-Matthews LS-52894 (all areas shown as black)
- type and symbols: die cut scotch lite reflective white vinyl

Trail Difficulty Rating System Symbols
- Trail Difficulty Rating System symbols will be provided by the Corridor Commission see SG.5.23

Date
7.95
Title
Pedestrian Trail Entrance
Scale
As noted
- Trail Grade, Cross Slope and Trail Width Symbols
- Trail Difficulty Rating System Symbols

NTS: Easy, Moderate, Difficult and Most Difficult

**Material & Fabrication**
- All signs are one-sided
- 1" x 2" solid aluminum support is welded to 5/8" aluminum blade
- All corners and edges ground smooth before painting
- Finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- Blade painted with Matthews acrylic polyurethane satin finish, face and all edges

**Color**
- Vertical stripe and edge on left: P2-Matthews LS-60394 (all areas shown as grey)
- Blade and support including right side: P1-Matthews LS-51994 (all areas shown as black)
- Type and symbols: Die cut scotch lite reflective white vinyl

**Trail Difficulty Rating System Symbols**
- Trail Difficulty Rating System Symbols will be provided by the Corridor Commission

---

**Delaware & Lehigh National Heritage Corridor Signage**

**Date**

**Title**

**Scale**

**Pedestrian Trail Entrance**

As noted
Stop
Please Show ID Card
To Security Officer

This area can accommodate various notices, schedules and announcements.

Smoking Prohibited in
All Museum Buildings

Trespassing and Soliciting Prohibited
Shoplifting, Smoking, or self-harm is
strictly prohibited. People may enter this
Building Voluntarily and are subject to
Civil Trespass.

Ceiling Suspended
Wall Mounted
Wall Mounted

Date 7.95
Title Changeable Message - Interior
File NTS
SG.5.25 SIGNAGE

Materials
- outer panels: 1/8" thick Plaskolite Optix TemperElite green tint acrylic
- reverse screen and back paint header, center band and footer as shown
- polish all edges; no saw marks to be visible
- center panel: 1/8" thick clear acrylic, finished so all edges are crisp and square but not sharp to the touch, surface paint front, back and all edges
- attach outer panels to center panel with foam tape to create pockets.
- substitute 1/32" thick (versus 1/16" shown) foam tape to create pocket as long as paper inserts can still be inserted and removed with ease. (slimmer profile is desirable)
- fabricator to provide client with tool or other simple method to make removal/changing of paper inserts as easy as possible.
- disks: 1/2" diameter, 1/8" thick surface painted aluminum disks mechanically fastened through acrylic panels. Must be tamper-proof.
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directional Post</td>
<td>Single sided aluminum blade used for directing trail users to destinations and providing mileage information.</td>
<td>SG.5.25</td>
</tr>
<tr>
<td>Identification Alternate</td>
<td>Single sided aluminum blade used to announce the name of the site or institution and provide information to the general public about schedule and regulations.</td>
<td>SG.5.27</td>
</tr>
<tr>
<td>River Trail Markers</td>
<td>Single sided Sintra panels used to indicate access points, portage points and hazards along river trails.</td>
<td>SG.5.30</td>
</tr>
<tr>
<td>Multipurpose Sign</td>
<td>18&quot; wide x 22&quot; high sign that can be utilized in many ways, including but not limited to site specific messages, cyclist specific messages and trail user etiquette.</td>
<td>SG.5.35</td>
</tr>
<tr>
<td>Low Clearance Sign</td>
<td>A sign that is to be placed primarily on bridges in order to warn trail users about low clearance.</td>
<td>SG.5.38</td>
</tr>
<tr>
<td>Mile Marker</td>
<td>A small sign that can be placed on a variety of surfaces to indicate overall mileage from destinations.</td>
<td>SG.5.39</td>
</tr>
</tbody>
</table>
Directional Post

Identification

Access Point Marker

Hazard Marker

Portage Point Marker

Multipurpose Sign

SG.5.25

SG.5.29

SG.5.31

SG.5.32

SG.5.33

SG.35

DELAWARE & LEHIGH
NATIONAL HERITAGE CORRIDOR

SIGNAGE

- Be courteous to others
- Travel right, pass left
- Announce when passing
- No excessive speed
- Respect private property
- Leave no trace
- Do not feed wildlife

Trail Etiquette

• Congested Area
• Be alert for mules

New Hope

CYCLISTS DISMOUNT

Next Access Point: 8 Miles

D&L Water Trail

Treichlers Bridge

MILE 46

ACCESS POINT

CAUTION

DAM

D&L Water Trail

Access Point

2 MILES AHEAD

Portage

Date

Title

Scale

7.01

Signage Additions - Overview

3/4" = 1'
Directional Post
- Directional posts are placed along the trail to indicate direction and distance to locations and sites.
- Trail partner logos are also located on this sign.
- Each sign can carry a maximum of four locations.
- Specifications have been repeated on pages SG.5.26 and SG.5.27 so that individual pages can be excerpted from the manual for convenient use.
Corridor logo is 6 1/2" x 6 1/2" centered left to right on overall panel

Material & Fabrication
- signs can be single sided only but must be finished on all surfaces
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
- drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel
- weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
- all corners and edges to be ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- all surfaces and edges painted with Matthews acrylpolyurethane satin finish

Message Hierarchy
- see SG.5.04 for details

Color
- aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-52694 satin
type, arrows and logos: die cut Scotch lite reflective white vinyl

Installation
- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
- graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
- size of concrete footing to conform to local building codes
- location to be selected by client representative
Material & Fabrication
- signs can be single sided only but must be finished on all surfaces
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
- drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel
- weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
- all corners and edges to be ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- all surfaces and edges painted with Matthews acrylicpolyurethane satin finish

Message Hierarchy
- see SG.5.04 for details

Color
- aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-5.2894 satin
- type, arrows and logos: die cut Scotch lite reflective white vinyl

Installation
- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
- graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
- size of concrete footing to conform to local building codes
- location to be selected by client representative
Material & Fabrication
- Signs can be single-sided only but must be finished on all surfaces.
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate, "6" x 6" and 3/16" thick top cap (fit to channel).
- Drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel.
- Weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel.
- All corners and edges to be ground smooth before painting.
- Finish to be weather, vandal and as graffiti-resistant as possible with minimum life of eight years without discoloration.
- All surfaces and edges painted with Matthews acrylicpolyurethane satin finish.

Color
- Aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-52894 satin type, arrows and logos: die cut Scotchlite reflective white vinyl.

Installation
- Aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete.
- Graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel).
- Size of concrete footing to conform to local building codes.
- Location to be selected by client representative.

DELTAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR
SIGNAGE

Material & Fabrication
- Signs can be single-sided only but must be finished on all surfaces.
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate, "6" x 6" and 3/16" thick top cap (fit to channel).
- Drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel.
- Weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel.
- All corners and edges to be ground smooth before painting.
- Finish to be weather, vandal and as graffiti-resistant as possible with minimum life of eight years without discoloration.
- All surfaces and edges painted with Matthews acrylicpolyurethane satin finish.

Color
- Aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-52894 satin type, arrows and logos: die cut Scotchlite reflective white vinyl.

Installation
- Aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete.
- Graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel).
- Size of concrete footing to conform to local building codes.
- Location to be selected by client representative.

DELTAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR
SIGNAGE

Material & Fabrication
- Signs can be single-sided only but must be finished on all surfaces.
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate, "6" x 6" and 3/16" thick top cap (fit to channel).
- Drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel.
- Weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel.
- All corners and edges to be ground smooth before painting.
- Finish to be weather, vandal and as graffiti-resistant as possible with minimum life of eight years without discoloration.
- All surfaces and edges painted with Matthews acrylicpolyurethane satin finish.

Color
- Aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-52894 satin type, arrows and logos: die cut Scotchlite reflective white vinyl.

Installation
- Aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete.
- Graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel).
- Size of concrete footing to conform to local building codes.
- Location to be selected by client representative.
see SG.5.27 for logo placement specifications

Corridor logo is 6 1/2" x 6 1/2" centered left to right on overall panel

facility name, meta bold 78/90 points

meta bold 100 points

hours, meta bold 60/65 points

serifa roman 30/40 points
column width is 3" max.
text is centered

PMS 124c icons, arrows and text black

Material & Fabrication
- signs can be single sided only but must be finished on all surfaces
- 6" aluminum vertical support channel with welded 3/8" thick aluminum bottom plate (6" x 6") and 3/16" thick top cap (fit to channel)
- drill & countersink holes in sides of channel for 1/4-20 flat head bolts to secure graphic blade to open face of channel
- weld 1/2" x 3/4" aluminum strips to back of graphic blade, drill & tap for bolts inserted through sides of channel
- all corners and edges to be ground smooth before painting
- finish to be weather, vandal and as graffiti resistant as possible with minimum life of eight years without discoloration
- all surfaces and edges painted with Matthews acrylic polyurethane satin finish

Message Hierarchy
- see SG.5.04 for details

Color
- aluminum blank, aluminum channel and bottom plate: P2-Matthews LS-52894 satin

Installation
- aluminum channel is welded to a plate which bolts to threaded anchor bolts embedded in concrete
- graphic blade is fastened to open face of channel with flat head tamper proof bolts (through sides of channel)
- size of concrete footing to conform to local building codes
- location to be selected by client representative
River Trail Markers
- These signs are placed on the river banks in order to aid trail users in navigation. They are intended to be low cost and easily replaced.
Materials & Fabrication:
- all signs are one-sided
- use Carsonite flexible sign support post (white)
- exact length of post to be determined by site
- sign blank is 1/4" Sintra (color as noted)

Color:
- background color is color of the Sintra blank: blue
- all areas shown in white: die cut Scotchlite reflective white vinyl

Installation:
- locations to be verified by fabricator and client representative
**Materials & Fabrication**
- all signs are one sided
- use Carsonite flexible sign support post (white)
- exact length of post to be determined by site
- sign blank is 1/4" Sintra

**Color**
- background color is color of the Sintra blank: red
- all areas shown in white: die cut Scotchlite reflective white vinyl

**Installation**
- warning markers can be installed as individuals signs or added to access point markers
- locations to be verified by fabricator and client representative
DELAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

SIGNAGE

Materials & Fabrication
- All signs are one-sided
- Use Carsonite flexible sign support post (white)
- Exact length of post to be determined by site
- Sign blank is 1/4" Sintra

Color
- Background color is color of the Sintra blank: blue
- All areas shown in white: die cut Scotchlite reflective white vinyl

Installation
- Portage markers can be installed as individual signs or added to access point markers
- May be installed individually, as needed, for river to canal loops and canal lock and dam portages
- Locations to be verified by fabricator and client representative

Date
Title
Scale
Materials & Fabrication
1 1/2" = 1'-0"

D&L Water Trail
Access Point
Portage

D&L Water Trail
Access Point
Portage

IDJ@[f\}01 &@
..____.,__ _______ meta bold 168 points
always upper and lower
text is centered

Date
Title
Scale
Artwork
This portage symbol is not found in standard symbol libraries. An electronic version was not found. This artwork has been provided for scanning purposes.
DELAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

SIGNAGE

Materials & Fabrication
- all signs are one sided

Color
- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

Installation
- locations and content to be verified by fabricator and client representative

Multipurpose sign

3" = 1'
**Trail Etiquette**

- Be courteous to others
- Travel right, pass left
- Announce when passing
- No excessive speed
- Respect private property
- Leave no trace
- Do not feed wildlife

---

**Materials & Fabrication**
- all signs are one sided

**Color**
- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

**Installation**
- locations and content to be verified by fabricator and client representative
DELAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

SIGNAGE

Materials & Fabrication
- all signs are one sided

Color
- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (headline and logos)
- P9 = PMS4535 (background)

Installation
- locations and content to be verified by fabricator and client representative

Multipurpose sign - example 2

New Hope

CYCLISTS DISMOUNT

• Congested Area
• Be alert for mules
**Materials & Fabrication**
- All signs are one-sided
- 1/8" aluminum blanks, finished and painted
- All corners and edges ground smooth before painting
- Finish to be weather, vandal, and graffiti resistant as possible

**Color**
- All lettering and stripes are black
- Background is PMS 124C, to match the color that is used on typical highway signage to indicate general warning

**Installation**
- Locations and content to be verified by fabricator and client representative
- Signs to be attached to surface using tamper proof bolt fasteners
DELWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

SIGNAGE

Materials & Fabrication
- all signs are one-sided
- all corners and edges ground smooth before painting
- fabrication is reflective Scotchprint applied to 1/8" aluminum blanks
- Scotchprint is recommended for the low cost of replacement in case of damaged graphics

Color
- P3 = PMS 208 maroon (areas shown in black)
- P6 = white (text)

Installation
- locations and content to be verified by fabricator and client representative
- signs to be attached to surface using tamper proof bolt fasteners or other appropriate method
- mounting method to be determined based on each installation situation

Date
7.02

Title
Mile marker

Scale
6" = 1'
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wayside - High Profile</td>
<td>Upright single or multiple outdoor interpretive display, each panel containing an embedded fiberglass panel 36&quot; x 48&quot; tall.</td>
<td>DG.6.02</td>
</tr>
<tr>
<td>Wayside - Low Profile</td>
<td>Single sided outdoor waist high interpretive display containing an embedded fiberglass panel 24&quot; x 36&quot; or 36&quot; x 24&quot; tall.</td>
<td>DG.6.16</td>
</tr>
<tr>
<td>Orientation Directory</td>
<td>Three panel triangle orientation display; each side contains an embedded fiberglass panel with dimensions 36&quot; x 48&quot; tall. Panel one contains the Corridor-wide introduction and map. Panel two contains an introduction to a section (Reach) of the Corridor including adjacent Reaches and corresponding map information. The third panel contains information and related imagery about the specific location. In place of the site specific panel a bulletin display case may be used. All specifications for the components described above are contained in the High Profile section described above.</td>
<td></td>
</tr>
</tbody>
</table>

All themes, text, captions, imagery, artwork, photography, maps or diagrams necessary to the design and execution of these exhibits, and any coordination or research required to generate the above mentioned items, are to be provided by the Corridor Commission or individual partners.
High Profile Panels

High Profile Panels provide information/education in areas where they do not compete with the "real thing." Examples: high traffic areas where the Low Profile delivery system (page DG.6.15) would block traffic; high traffic areas where you want more than one focal point for visitors; a series of billboards for effect; entries into interpretive areas needing an introduction; when more space is needed for graphics than fit nicely into a low profile system; and when closing a trail you wish to reclaim by either blocking entry with panels of interpretive information or seeking cooperation and support in your efforts. It is imperative that this exhibit sign does not block or compete with the view of the primary resource. We have provided a choice of panel configurations and a number of panels for your selection.
Panel Details
- Panel size is 48" tall by 36" wide
- Live image size is 47 1/2" tall by 35 1/2" wide
- Grid unit is 14 picas square
- Client to select logos for optional logo positions
- All other elements on the page are permanent design elements and may not be manipulated in any way

Color
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P7 = background 1 - PMS 5305
- P8 = background 2 - PMS 5503
- P9 = background 3 - PMS 4535

Background Color
- Either P7, P8 or P9 may be used as a background color on the high profile panels.
- The color of the headline text (see page DG.6.05) should always match the color chosen for the background of that panel.

DELAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

7.95 Wayside High Profile Grid
1 1/2" = 1'-0"
Panel Details
-all elements that extend to the edges of the image area must also bleed off of the panel
-all elements on the page are prototypical and must be approved by client

Images
-all photographs and line art reverse out of background color.
-stops and fits to be minimal in order to prevent white showing through.

Color
-P3 = PMS 208 - maroon
-P5 = PMS black
-P6 = white
-P7 = background 1 - PMS 5305
-P8 = background 2 - PMS 5503
-P9 = background 3 - PMS 4535

7.95 Wayside High Profile Image
1 1/2" = 1'-0"
Wayside High Profile Example Panel 1

1831-1932

Life Along The Canal

Canalers

Life on the Water

DELAWARE & LEHIGH NATIONAL HERITAGE CORRIDOR

DISPLAY

Wayside High Profile Example Panel 1
Canal Boats

1831-1932

BOATBUILDING

MINE BOATS

PASSING RULES
Panel Details
- Two panels can be interlocked in either a straight line or at an angle. One of the panels can also house a bulletin board.
Panel Details

This three-sided kiosk can be used at key visitor locations to provide them with numerous graphics and some text to look at while waiting for something else. It can provide information in locations where staff are unavailable. They will also hold Corridor information at key locations.
**Materials**
- shapes: 6063-T5 aluminum
- plates: 6061-T6, 5052-H2 aluminum

**Fabrication**
- all edges of molding extrusions and legs to be exposed to the public will have a uniform 1/16" radius.

**Color and Finish**
- sandblast all surfaces to receive paint.
- paint: two coats Polane "T"
- color: P2-Matthews LS-63694

---

**DG.6.13 DISPLAY**

**Kiosk - Section**

- 3/16" Cork Board
- 1/4" Clear Lexan Sheet
- 3/16" Aluminum Extrusions
- 3/8" Dia. Pan Head Drive Rivets for field assembly of knockdown units, 3 req. per side

**Panel/Leg Attachment - Section**

- 2 1/2" Extruded Aluminum Leg
- 2 1/8" x 1/8" Aluminum Drive Rivet
- 1/4" Clear Lexan Sheet
- 1/4" Cork Board

**Optional Bulletin Case - Section**

- 1/8" Wall Extruded Aluminum Leg
- 3/16" Aluminum Backing Plate
- 5/16" Aluminum Extrusions
- 20° Angle - Section

**Panel/Leg Attachment - Section**

- 2 1/2" X 5" X 1/8" Extruded Aluminum Leg
- Aluminum Continuous Hinge
- Lock (3)
- Weld
- 3/16" Aluminum Backing Plate
- 3/8" Dia. Pan Head Drive Rivets for field assembly of knockdown units, 3 req. per side

---

**Wayside High Profile - Details**

- 5" Panel/Leg Attachment - Section
- 2 1/2" x 5" X 1/8" Extruded Aluminum Leg
- Aluminum Continuous Hinge
- Lock (3)
- Weld
- 3/16" Aluminum Backing Plate
- 3/8" Dia. Pan Head Drive Rivets for field assembly of knockdown units, 3 req. per side

---

**DELTA & LEHIGH NATIONAL HERITAGE CORRIDOR**

**Date** 7.95
**Title** Wayside High Profile - Details
**Note** NTS
Low Profile Panels

These outdoor interpretive display panels are to be placed directly on location so the user can look at the information, graphics and the place, element or artifact.
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trailhead</td>
<td>36&quot; x 48&quot; high profile outdoor panel with map of immediate area, a brief interpretive 'teaser' about local features and attractions and a literature box for map handouts.</td>
<td>DG.6.22</td>
</tr>
<tr>
<td>Trailmap</td>
<td>22&quot; x 48&quot; high profile outdoor panel with map of immediate area. There are two different versions; one for use along the land trails and another for use near the river trails.</td>
<td>DG.6.27</td>
</tr>
<tr>
<td>PA/NJ Loop Trailmap</td>
<td>22&quot; x 48&quot; upright outdoor panel for specific use along the PA/NJ Canal loop trails.</td>
<td>DG.6.31</td>
</tr>
</tbody>
</table>

All themes, text, captions, imagery, artwork, photography, maps or diagrams necessary to the design and execution of these exhibits, and any coordination or research required to generate the above mentioned items, are to be provided by the Corridor Commission or individual partners.
Trailhead
- Trailheads are used for global orientation. There is a brief description of activities, features or amenities in the immediate area. It is the same size as the high profile wayside (36" x 48") and may be used in combination with high profile wayside signage. All trailheads contain the following elements: map, holder for maps, two photos, brief interpretive paragraph and partner logos.
- See DG.6.09 through DG.6.14 for further frame and footing details
Panel Details
- panel size is 48" tall by 36" wide
- live image area is 47" tall by 35" wide
- partner logos not to exceed 1" high or 3" wide
- partner logos are only placed in area shown
- all other elements on the page are permanent design elements and may not be manipulated in any way

Color
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change
FOLLOWING IN HISTORY'S FOOTSTEPS

Delaware & Lehigh National Heritage Corridor

Panel Details:
- All elements on the page are prototypical and must be approved by client.
- No substitute typefaces will be accepted.
- Normal kerning.
- All type flush left, rag right.
- Rag tolerance to be kept within 2-3 picas with minimum hyphenation.
- Type is specified as type size/leading.
- All type to overprint unless noted.

Color:
- P3 = PMS 208 - maroon.
- P5 = PMS black.
- P6 = white.
- P9 = background 3 - PMS 4575.
- Colors shown on trailhead panels are always as specified and are not subject to change.

Type:
- Serif:
- Meta normal caps 52 points may not exceed one line.
- Main text:
- Meta normal 24/36 points may not exceed seven lines.
- Captions:
- Meta normal 20/29 points may not exceed three lines.

Date: 7.01
Title: Trailhead Text
Box: 1 1/2" = 1'
Trailmap
- Trailmaps are used for orientation, displaying a map of the immediate area, as well as directional information. It is the same height as the trailhead (48") but thinner (22"). The trailmap utilized on the river trails is somewhat different, having the following additional elements: waterproof holder for map handouts and facility information.

There is a third, specialized trail map used only for the Delaware & Lehigh/Delaware & Raritan Canal loop trails.

- See DG.6.09 through DG.6.14 for further frame and footing details.
DG.6.28  DISPLAY

Panel Details:
- panel size is 22" wide x 48" high
- visible image size is 21" wide x 47" high
- all elements on the page are prototypical and must be approved by client

Type:
- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color:
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- Py = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change

Type:
- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color:
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- Py = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change
PA/NJ Canal Loop Trails.

NATIONAL HERITAGE CORRIDOR

Lambertville, NJ
Washington Crossing 7 miles
Centre Bridge 4 miles

Panel Details
- Panel size is 22" wide x 48" high
- Visible image size is 21" wide x 47" high
- All elements on the page are prototypical and must be approved by client
- Clear acrylic literature dispenser, item # D019791 from Merchandising Solutions (800) 399-1632

Type
- No substitute typefaces will be accepted
- Normal Kerning
- All type flush left, rag right
- Rag tolerance to be kept within 2-3 picas with minimum hyphenation
- Type is specified as type size/leading
- All type to overprint unless noted

Color
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- Colors shown on trailhead panels are always as specified and are not subject to change
Panel Details
- panel size is 22" wide x 48" high
- visible image size is 21" wide x 41" high
- all elements on the page are prototypical and must be approved by client
- clear acrylic literature dispenser, item # D059791 from Merchandising Solutions (800) 399-1632

Type
- no substitute typefaces will be accepted
- normal kerning
- all type flush left, rag right
- rag tolerance to be kept within 2-3 picas with minimum hyphenation
- type is specified as type size/leading
- all type to overprint unless noted

Color
- P3 = PMS 208 - maroon
- P5 = PMS black
- P6 = white
- P9 = background 3 - PMS 4535
- colors shown on trailhead panels are always as specified and are not subject to change
<table>
<thead>
<tr>
<th>Type/Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stationery</td>
<td>PG.7.02</td>
</tr>
<tr>
<td>Activity Theme Brochure</td>
<td>PG.7.03</td>
</tr>
<tr>
<td>Site Brochure</td>
<td>PG.7.07</td>
</tr>
<tr>
<td>Corridor Brochure</td>
<td>PG.7.11</td>
</tr>
<tr>
<td>Corridor/Reach Maps on Pads</td>
<td>PG.7.16</td>
</tr>
</tbody>
</table>
Paper Specification
- 100% recycled Benefit from Champion International
- Paper color - oyster
- Letterhead and envelope - 70 lb. text
- Business card - 80 lb. cover
- Envelope to have square flap back

Color
- Logo - P3 - PMS 208 U
- Text - P5 - black
- Photograph - duotone
- Shoot full range halftone to print P5 - black
- Shoot secondary halftone for shadow areas only to print P3 - PMS 208 U
## MAP SCHEDULE

<table>
<thead>
<tr>
<th>Type/Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td>MG.8.02</td>
</tr>
<tr>
<td>Types, applications and nomenclature</td>
<td></td>
</tr>
</tbody>
</table>
# PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Type/Description</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td>Performance requirements 9.02</td>
</tr>
<tr>
<td>Color Schedule</td>
<td>9.10</td>
</tr>
</tbody>
</table>
### PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.01 Submittals</td>
<td><strong>A Requirements</strong>&lt;br&gt;1 Schedule shop drawings, product data and sample submittals for interrelated items at the same time.&lt;br&gt;2 The Commission may hold drawings, product data and samples in cases where a partial submittal cannot be reviewed until associated items have been received.&lt;br&gt;3 Allocate not less than two weeks, plus mailing time, for processing by the Commission and/or client.&lt;br&gt;<strong>B Shop drawings</strong>&lt;br&gt;1 Submit shop drawings as outlined below. Refer to Commission for quantities required.&lt;br&gt;2 Include plans, elevations, sections and large scale details of sign wording and lettering layout. Show anchorages and accessory items.&lt;br&gt;3 Show fabrication and installation details, including all sign components such as extrusions, brackets, bracing, hardware, internal framing, foundations, etc.&lt;br&gt;4 For exterior illuminated sign types: shop drawings shall also include the following:&lt;br&gt;   a. Fixture type and UL registration number.&lt;br&gt;   b. Fixture and lamp/ballast wattage.&lt;br&gt;   c. Fixture and lamp wattage.&lt;br&gt;   d. Complete photometric data.&lt;br&gt;   e. Wiring diagrams, including connection to building power supply.</td>
</tr>
</tbody>
</table>
## PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1.01 Submittals | **D** Samples  
   - c. Each material required for fabrication of each sign type with finishes as specified, including extrusions and hardware.  
   - d. Color samples (minimum size 5x5 inches)  
   - e. Halftone sample (minimum size 5x5 inches)  
   - f. Samples should represent extreme variations in color and texture that might occur during fabrication.  

| 1.02 Delivery | **A** Package separately or in like groups labeled as to contents. Include installation hardware, adhesives and installation instructions; include a reasonable array of alternate materials to be able to respond effectively to varying field conditions.  

| 1.03 Protection | **A** Store and protect assemblies from injury at the shop, in transit to the job and until erected in place, completed, inspected and accepted.  

**E** Maintenance  
1. Submit four (4) copies of all manufacturer's recommendations for a maintenance schedule and program for all items.  
2. The instructions shall cover cleaning, repair and maintenance of signs, including data on cleaning solutions or methods of application which should be avoided.
### PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.04</td>
<td><strong>Inspection</strong></td>
</tr>
<tr>
<td>A</td>
<td>Materials, colors and fabricated or partially fabricated items shall be available for inspection at the factory or elsewhere, by the Commissioners and/or client during the process of manufacture and until final delivery, installation and acceptance, to determine whether or not there is compliance with the requirements of these specifications.</td>
</tr>
<tr>
<td>B</td>
<td>Approval prior to the time of final acceptance shall not preclude rejection of delivered items which do not satisfy these specifications.</td>
</tr>
<tr>
<td>1.05</td>
<td><strong>Reordering</strong></td>
</tr>
<tr>
<td>A</td>
<td>All items specified herein shall be available to the owner in additional quantities for a period of ten (10) years after completion of all work called for in this specification.</td>
</tr>
<tr>
<td>1.06</td>
<td><strong>Warranty</strong></td>
</tr>
<tr>
<td>A</td>
<td>Warrant all products (including, but not limited to, materials, hardware and finishes) against any and all defects for a period of ten (10) years from date of installation.</td>
</tr>
<tr>
<td>B</td>
<td>Correct any and all defects in material and/or workmanship 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 owner's satisfaction.</td>
</tr>
<tr>
<td>C</td>
<td>Vinyl die-cut letters shall be warranted for seven (7) years against delamination from substrate.</td>
</tr>
<tr>
<td>D</td>
<td>Paint finishes shall be warranted for seven (7) years against chalking, fading, bubbling, crazing, rusting or other disintegration of sign posts, sign faces, all edges and all message there applied.</td>
</tr>
</tbody>
</table>
PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1.06 Warranty continued | 1. Bubbling, crazing, chalking, rusting or other breakdown of the sign face, messages or edge finish of the sign inserts or panel.  
2. Corrosion developing beneath paint surfaces of the support systems (except when it is the result of obvious vandalism or other external damage to the paint surfaces).  
3. Corrosion of fastenings.  
4. The signs not remaining true and plumb on their supports.  
5. Fading of the colors when matched against a sample of the original color and material.  
6. Discoloration of metal finishes.  
7. Uneven or blotchy paint or finish application. |
| 1.07 Alternative Fabrication | A The drawings show design intent only. The fabricator is responsible for fabrication and overall quality. Changes in design, materials, fabrication techniques or details necessary to the successful completion of this project should be communicated to the owner in a timely fashion.  
B The owner recognizes 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 owner provided they are submitted in sketch form as soon as possible prior to shop drawings. |
| 1.08 Artwork | A The contractor is responsible for preparation of all artwork (including but not limited to type, arrows, imagery, drawings, photographs, symbols) necessary beyond that provided with contract award. Quality of artwork for finished signs shall be the responsibility of the contractor. The owner’s representative retains the right to reject artwork if it fails to meet the standard of quality established. |
PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.08</td>
<td><strong>Artwork</strong> continued</td>
</tr>
</tbody>
</table>
| B    | Symbol and pictographs shall conform to the symbol signs issued by the Department of Transportation and the American Institute of Graphic Arts. To obtain more information and reproduction artwork or digitized Macintosh compatible AIGA symbols, contact:  

The American Institute of Graphic Arts  
1059 Third Avenue  
New York, NY 10021  
212.752.0813  
or  
Society for Environmental Graphic Design  
1 Story Street  
Cambridge, MA 02138  
617.868.3381 |
| C    | Arrows on all signs shall use the camera ready artwork or digitized computer compatible arrow files available through the owner. |
| D    | All halftones should be shot at 85 lines per inch of higher to retain clarity. |
| E    | Traps in silkscreen work to be kept to a minimum. Traps should be no greater that 1/16" in any direction |

1.09 **Materials**

A Paint for aluminum and photo-etched polymer components: shall be Matthews Acrylic Polyurethane, an ultraviolet inhibited aliphatic isocyanate acrylic system engineered for extreme color and gloss retention. Degree of gloss is specified in design drawings. One coat 74-734 and 74-735 metal pretreat at .25 mils DFT or one coat 74-793 spray bond at .15 to .25 mils DFT and one coat Matthews Acrylic Polyurethane 1.25 mils DFT.
### PERFORMANCE REQUIREMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1.09</strong></td>
<td><strong>Materials</strong></td>
</tr>
<tr>
<td><strong>continued</strong></td>
<td>Coating to protect aluminum by uniformly penetrating, filling and sealing surface pores. Coating should provide a barrier to weathering, airborne contaminants, graffiti, industrial air pollution, mildew, and salt air. Coating should not yellow, peel, or flake. Coating should be guaranteed a minimum of seven years. Sign panels shall be predrilled in proper locations before any priming, painting or coating processes. Aluminum should have consistency of color and finish throughout project.</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>Pressure sensitive legends and letters use “Scotchlite” brand reflective sheeting manufactured by 3M. Thickness: .003 inch minimum, .006 inch maximum. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements.</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>Silkscreen inks: formulate epoxy silkscreen inks for surfaces on which they will be used. Add catalytic or bonding agents as necessary to maximize adherence and vandal resistance.</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>Silkscreen inks to have maximum opacity and to use UV inhibitors.</td>
</tr>
</tbody>
</table>

<p>| <strong>1.10</strong>  | <strong>Fabrication</strong>                                                                                                                                                                                                                                                                                                                            |
| <strong>A</strong>     | Report any discrepancies between drawings, specifications and owner requirements and request direction from owner before proceeding.                                                                                                                                                                                                           |
| <strong>B</strong>     | Verify measurements in field as required for work fabricated to fit job conditions. Before starting work, examine adjoining work on which work in this contract is in anyway dependent for workmanship and fit. Report any problems or difficulties to owner.                                                                                                               |
| <strong>C</strong>     | Make work in ample time not to delay job progress and deliver to job at such time as required for proper coordination.                                                                                                                                                                                                                   |</p>
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.10 Fabrication</td>
<td>Changeability: fabricate signs in such a manner that each of the major mounting components may be removed and replaced with similar components by maintenance personnel with appropriate tools but not readily removed or tampered with by unauthorized personnel. It is desirable for the fabricator to produce additional silkscreen sheets (in excess of required order) for future embedment. Client to specify.</td>
</tr>
<tr>
<td>No.</td>
<td>Color</td>
</tr>
<tr>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>P1</td>
<td>Dark Maroon</td>
</tr>
<tr>
<td>P2</td>
<td>Light Green</td>
</tr>
<tr>
<td>P3</td>
<td>Light Maroon</td>
</tr>
<tr>
<td>P4</td>
<td>Dark Green</td>
</tr>
<tr>
<td>P5</td>
<td>Black</td>
</tr>
<tr>
<td>P6</td>
<td>White</td>
</tr>
<tr>
<td>P7</td>
<td>Blue</td>
</tr>
<tr>
<td>P8</td>
<td>Brown</td>
</tr>
<tr>
<td>P9</td>
<td>Tan</td>
</tr>
</tbody>
</table>

To request color swatches, contact:

**Pantone**
- 201-935-5500, 201-896-0242 (fax)
- Pantone colors are specified for use in printing and silkscreen application

**Matthews Paint Company**
- 800-323-6593, 414-947-0444 (fax)
- Matthews paint products are specified for exterior signage and display hardware and related elements
- Gloss finish of paint specified is to be 60 degrees or 29.8 on a 60 degree glossimeter

Delaware & Lehigh
National Heritage Corridor
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