Borough of Media, PA
Wayfinding and Signage System

DESIGN INTENT DRAWINGS
June 30, 2016
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A | Graphic Standards
### Clearview Highway

**ABCDEFHGIJKLMNOPQRSTUVWXYZ**

**abcdefhijklmnopqrstuvwxyz**

1234567890 ‘’!@#$%~

Amongst the several mechanical Arts that have engaged my attention, there is no one which I have pursued with so much steadiness and pleasure, as that of Letter Founding.

<table>
<thead>
<tr>
<th>Downtown</th>
<th>Downtown</th>
<th>Downtown</th>
</tr>
</thead>
<tbody>
<tr>
<td>acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>123A</th>
<th>123A</th>
<th>123A</th>
</tr>
</thead>
<tbody>
<tr>
<td>acceptable</td>
<td>NOT acceptable</td>
<td>NOT acceptable</td>
</tr>
</tbody>
</table>

### Typography Specifications

The Clearview typeface is the required message font for vehicular sign types VDIR.1-8, & PARK.1

All type shall be set exactly as specified. Substitutions will only be accepted, at the DESIGNER’S discretion, where they match the specified typeface in every detail. The FABRICATOR should be aware that different versions of typesetting equipment may not satisfactorily match specified typefaces and in such instances will not be acceptable.

Sometimes the Foot mark is mistaken for an apostrophe and an inch mark is mistaken for quotations. Below are examples of correct and incorrect apostrophe’s for each typeface.

- **Clearview Highway**
  This apostrophe is CORRECT.
  **PARK’S**

- **Clearview Highway**
  This apostrophe is INCORRECT.
  **PARK’S**

### NOTES

- Sometimes the Foot mark is mistaken for an apostrophe and an inch mark is mistaken for quotations. Below are examples of correct and incorrect apostrophe’s for each typeface.
The Scala Regular typeface is utilized on the Gateways, Parking and Pedestrian signs.

All type shall be set exactly as specified. Substitutions will only be accepted, at the DESIGNER'S discretion, where they match the specified typeface in every detail. The FABRICATOR should be aware that different versions of typesetting equipment may not satisfactorily match specified typefaces and in such instances will not be acceptable.

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Individual spacing of each letter needs to be evaluated. All copy shall be kerned so that each character is optically centered between the center of each of the surrounding characters.

**SIGN TEXT STANDARDS**

**COPY HEIGHT**

When measuring copy height, measure only the height of the Capital letters to determine your overall copy height (shown in illustration below as “X”). Some of the other letters have an extended height beyond the average height of the letters.

![Copy Height Illustration]

**LINE SPACING**

When measuring line spacing, always measure from the baseline of the topmost text line to the baseline of the text line below (shown as “X”).

![Line Spacing Illustration]
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

NOTES

The Owner, and destination shown, shall verify all terminology and abbreviations are accurate.

SIGN TYPES:
VDIR.1
VDIR.2
VDIR.3
RES.1

SIGN TYPING:
VDIR.1
VDIR.2
VDIR.3
RES.1

VEHICULAR TERMINOLOGIES

4" high Copy
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NOTES

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

ENVIRONMENTS & EXPERIENCES

GOVERNMENT
Municipal Center
Delaware Co Courthouse

PARKS & RECREATION
Glen Providence Park
Cherry St Fields
Houtman Park

TRANSPORTATION
Media Station

ARTS & CULTURE
Media Theatre
Media Free Library
Hedgerow Theatre

SERVICES
Rose Tree Dist School Offices
Youth Center

PUBLIC PARKING
Orange St Lot
Baltimore Ave Garage
State St Lot
Church St Lot
Front St Lot
Olive St Lot
Gayley St Lot
Garage
Upper Levels
Public Parking

SIGN TYPES:
VDIR.7
VDIR.8

SPECIFICATIONS

All type shall be set exactly as specified.

ENVIRONMENTS & EXPERIENCES

CITIES

DOWNTOWN

3'-10" Vehicular Panel Width

PARKS & RECREATION

Glen Providence Park
Cherry St Fields
Houtman Park

TRANSPORTATION

Media Station

ARTS & CULTURE

Media Theatre
Media Free Library
Hedgerow Theatre

SERVICES

Rose Tree Dist School Offices
Youth Center

PUBLIC PARKING

Orange St Lot
Baltimore Ave Garage
State St Lot
Church St Lot
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2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent bays.
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**LOGO ELEMENTS**

Media Borough, PA
Wayfinding and Signage System
120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com

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**SYMBOLS**

Utilized in Vehicular and Pedestrian Directional signage

<table>
<thead>
<tr>
<th>Information</th>
<th>Parking</th>
<th>Train Station</th>
</tr>
</thead>
</table>

---

**ARROWS**

Utilized in Vehicular & Pedestrian Directional signage

<table>
<thead>
<tr>
<th>Left Arrow</th>
<th>Up-Left Arrow</th>
<th>Straight Arrow</th>
<th>Up-Right Arrow</th>
<th>Right Arrow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Arrow</td>
<td>Up-Left Arrow</td>
<td>Straight Arrow</td>
<td>Up-Right Arrow</td>
<td>Right Arrow</td>
</tr>
<tr>
<td>Straight-Left Arrow</td>
<td>Up-Straight-Left Arrow</td>
<td>Up-Straight-Right Arrow</td>
<td>Straight-Right Arrow</td>
<td></td>
</tr>
</tbody>
</table>

---

**USE of Arrows**

When multiple directions are required on a sign, the following directional hierarchy shall take precedent. See Example below. Reference Message Schedule for individual Messages.

- **Straight Arrow**
- **Left Arrow**
- **Right Arrow**

---

**NOTES**

All artwork pictured on this page will be provided to the sign fabricator by the designer and/or client. This artwork must be used for all sign applications in this provided documentation. Do NOT substitute with any other artwork!
### Reflective Vinyl

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification</th>
<th>Applicable</th>
<th>Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>White 3M High Intensity Prismatic Reflective Sheeting 3500 Color: White</td>
<td>Standard</td>
<td>Knockout White: Background and Characters 3M custom into direct to 3830 with 3M approved Clear UV/Graffiti overlaminate. Applied according to Manufacturers Spec to aluminum sheet.</td>
</tr>
<tr>
<td>R2</td>
<td>Blue 3M High Intensity Prismatic Reflective Sheeting 3500 Color Match: Pantone® 7945 C</td>
<td>Standard</td>
<td>Custom Color: Background and Characters 3M custom into direct to 3830 with 3M approved Clear UV/Graffiti overlaminate. Applied according to Manufacturers Spec to aluminum sheet.</td>
</tr>
<tr>
<td>R3</td>
<td>Parking Green 1 3M High Intensity Prismatic Reflective Sheeting 3500 Color Match: Pantone® 7322 C</td>
<td>Standard</td>
<td>Custom Color: Background and Characters 3M custom into direct to 3830 with 3M approved Clear UV/Graffiti overlaminate. Applied according to Manufacturers Spec to aluminum sheet.</td>
</tr>
</tbody>
</table>

V, Reflective Vinyl

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification</th>
<th>Applicable</th>
<th>Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1</td>
<td>White 3M Scotcal ElectroCut Opaque Vinyl Film 7125-10 White</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V2</td>
<td>Blue 3M Scotcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7424 C</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V3</td>
<td>Parking Green 1 3M Scotcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7722 C</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V4</td>
<td>Parking Green 2 3M Scotcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7495 C</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V5</td>
<td>Parking Green 1 3M Scotcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7722 C</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V6</td>
<td>Parking Green 2 3M Scotcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7495 C</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V7</td>
<td>Pink 3M Scotcal ElectroCut Opaque Vinyl Film Pink 3630-10B</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V8</td>
<td>Yellow 3M Scotcal ElectroCut Opaque Vinyl Film Yellow 2800-015</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V9</td>
<td>Blue 3M Scotcal ElectroCut Translucent Vinyl Film Intense Blue 3630-122</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
<tr>
<td>V10</td>
<td>Green 3M Scotcal ElectroCut Translucent Vinyl Film Lime Green 3630-136</td>
<td>Standard</td>
<td>Surface applied according to 3M manufacturer's specifications.</td>
</tr>
</tbody>
</table>

### Color Chart

- Samples MUST have project and color specifications attached to back side.

### Notes

The colors must look exactly the same every time they are used so that people associate them with the Media Wayfinding Program. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.
### MATERIALS

<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>PROCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dye-Solid</td>
<td>dHPL exterior grade</td>
<td>Hi-resolves CMYK printed graphics set into phenolic room exterior grade panel.</td>
</tr>
<tr>
<td>Aluminum</td>
<td>Pin-mounted non-corroding individual aluminum letters</td>
<td>Clear anodizing over natural aluminum finish.</td>
</tr>
<tr>
<td>Mosaic Tile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concrete</td>
<td>formed concrete cap base</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Satinice (DP9) Lollipop-M112 DC</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Satinice (DP9) Mandarin-M4489 DC</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Satinice (DP9) Sky Blue-S601 DC</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Satinice (DP9) Klean-K907 DC</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Catterless Satinice</td>
<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Satinice (DP9) Lollipop-M112 DC</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Acrylite</td>
<td>ACRYLITE® Catterless Satinice</td>
<td></td>
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</tbody>
</table>

### PAINTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>SPECIFICATION</th>
<th>APPLICABLE</th>
<th>PROCESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1 White</td>
<td>Matthews Paint MP 11437</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P2 Blue</td>
<td>To match Matthews Paint 20208</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P3 Green Metal</td>
<td>To match Matthews Paint 4083B</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P4 Parking Grn 1</td>
<td>To match Pantone® 7533 C</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P5 Parking Grn 2</td>
<td>To match Pantone® 7495 C</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P6 Info Blue 1</td>
<td>To match Pantone® 2122 C</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P7 Info Blue 2</td>
<td>To match Pantone® 237 C</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P8 Dark Blue Metallic</td>
<td>To match Matthew's Pantone® 20208</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P9 Silver</td>
<td>To match Matthew's Pantone® 10882</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P11 Yellow Metallic</td>
<td>To match Matthew's Pantone® 2028A</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P12 Gray</td>
<td>To match Pantone® 2223 C</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P15 Pink Metallic</td>
<td>To match Matthew's Pantone® 22289</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P16 Dark Steel</td>
<td>To match Matthew's Pantone® 56399</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
<tr>
<td>P17 Light Blue Metallic</td>
<td>To match Matthew's Pantone® 20206</td>
<td>Standard for System (typ.)</td>
<td>Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.</td>
</tr>
</tbody>
</table>

### NOTES

The FABRICATOR must submit three (3) identical sets of each color specified for approval prior to any painting. Sample paint swatches must be produced on .060" aluminum sheet, approximately 3" x 6", including primer and free of defects. Sample material swatches should be the same approximate size. Samples MUST have project and color specifications attached to back side.

The colors must look exactly the same every time they are used so that people associate them with the Media Wayfinding Program. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.

The FabriCraft must provide Shop drawings and detail drawings showing the location, size, and shape of all work to be fabricated. Shop drawings and detail drawings must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked prior to proceeding with fabrication. All copy shall be submitted to this office for approval prior to any painting. Sample paint swatches must be produced on .060" aluminum sheet, approximately 3" x 6", including primer and free of defects. Sample material swatches should be the same approximate size.
Placement Guidelines
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

FIGURE 1 - Vehicular Directional - Sign Placement Guideline
FIGURE 2 - Destination Arrival or Parking Identification - Sign Placement Guideline

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lamp posts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver’s attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Signage System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver’s attention or view when making turns or driving through an intersection.

(d) There shall be a goal of one sign per block, although two are permissible, where necessary.

The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

Figure 3
Sign C: VDIR.4-6

Figure 4
Sign D: VDIR.1-6

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lampposts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver's attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Sign System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver's attention or view when making turns or driving through an intersection.

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The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

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Figure 5 - Gateway/District Arrival-Vehicular - Sign Placement Guideline

Unless approved by the Client or its designated agent, all signs shall be installed to the right of the direction of traffic and where sufficient space is available.

(a) Signs shall be located to take advantage of natural terrain, to minimize impacts on scenic environment and to avoid visual conflicts with other signs, trees and lampposts within the Borough right-of-way.

(b) Signs shall be located so as not to interfere with, obstruct or divert driver's attention from any other Official Traffic Control Device. Other Official Traffic Control Devices placed at intersection approaches, subsequent to the placement of a Wayfinding Sign, shall have precedence as to location and may require the relocation of the Wayfinding Sign. In the locations where Official Traffic Control Devices are integrated into the Wayfinding Signage System, the Official Traffic Control Devices shall take precedence with regard to order, space and location, over other information.

(c) Wayfinding Signs shall be positioned in such a manner that does not restrict driver's attention or view when making turns or driving through an intersection.

(d) There shall be a goal of one sign per block, although two are permissible, where necessary.

The following pages illustrate installation guidelines for the location and spacing of the various sign types. Figures 1 through 6 represent the guidelines for the location of the various sign types, while Figure 7 illustrates the lateral clearance guidelines.
### Figure 6 - Lateral Clearance Guidelines

Within some of the Downtown areas of the Borough of Media, urban conditions and narrow sidewalks may cause deviation from the standards articulated in the previous figures. Conditions may include less lateral clearance for the 2'-0" or 5'-0" preferred distance from edge of sign panel to curb, or placement at 2'-0" or 5'-0" would create an obstacle (i.e. post positioned in middle of the side walk) or create situations of non-compliance to ADA clearances.

In these cases guidelines must be consistent with MUTCD Section 2A.19 options for urban areas.

Suggested recommendations for relocation of signs if placement is in conflict with guidelines.

**OPTION A:** Position the sign at a minimum of 2'-0" or 5'-0" (face of curb to edge of sign panel) as required.

**OPTION B:** If the sign can be moved, without disrupting routing or sequencing, then it should be repositioned to achieve the 2'-0" or 5'-0" min.

If 2'-0" is not physically possible, then the following options should be allowed:

**OPTION C:** The sign set back should be position at 1'-6". If that is not possible then...

**OPTION D:** Utilize a minimum 1'-0", in accordance with MUTCD, only as a final option.

---

### Measurements and Distances

<table>
<thead>
<tr>
<th>SIGN TYPE</th>
<th>MEASURE</th>
<th>PREFERRED DISTANCE</th>
<th>MINIMUM DISTANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Distance from Edge of Sign Panel to Edge of Curb</td>
<td>2'-0&quot; or more</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>b</td>
<td>Distance from Sign Post to Nearest Obstruction</td>
<td>4'-0&quot; or more</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>c</td>
<td>Distance from Edge of Sign Panel to Nearest Overhead Obstruction</td>
<td>4'-0&quot; or more</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>d</td>
<td>Sign Placement in Relation to Adjacent Building</td>
<td>align to building Edge</td>
<td>Do Not obstruct Entrance</td>
</tr>
<tr>
<td>e</td>
<td>Distance from Face of Sign to Nearest Tree Branch</td>
<td>20'-0&quot; or more</td>
<td>15'-0&quot;</td>
</tr>
<tr>
<td>f</td>
<td>Distance from Face of Sign to Nearest Utility Pole</td>
<td>15'-0&quot; or more</td>
<td>10'-0&quot;</td>
</tr>
<tr>
<td>g</td>
<td>Distance from Back of Sign to Nearest Tree Branch</td>
<td>8'-0&quot; or more</td>
<td>3'-0&quot;</td>
</tr>
<tr>
<td>h</td>
<td>Distance from Back of Sign to Nearest Utility Pole</td>
<td>15'-0&quot; or more</td>
<td>10'-0&quot;</td>
</tr>
</tbody>
</table>

Measurements and Distances shown are guidelines only prevailing local and state codes shall supersede information presented.
FIGURE 7 - Lateral Clearance Guidelines

Within some of the Downtown areas of the Borough of Media, urban conditions and narrow sidewalks may cause deviation from the standards articulated in the previous figures. Conditions may include less lateral clearance for the 2'-0" or 5'-0" preferred distance from edge of sign panel to curb, or placement at 2'-0" or 5'-0" would create an obstacle (i.e. post positioned in middle of the sidewalk) or create situations of non-compliance to ADA clearances. In these cases guidelines must be consistent with MUTCD Section 2A.19 options for urban areas.

Suggested recommendations for relocation of signs if placement is in conflict with guidelines.

OPTION A: Position the sign at a minimum of 2'-0" or 5'-0" (face of curb to edge of sign panel) as required.

OPTION B: If the sign can be moved, without disrupting routing or sequencing, then it should be repositioned to achieve the 2'-0" or 5'-0" min. If 2'-0" is not physically possible, then the following options should be allowed:

OPTION C: The sign set back should be position at 1'-6". If that is not possible then...

OPTION D: Utilize a minimum 1'-0", in accordance with MUTCD, only as a final option.

NOTE:
All locations shall be installed within the City ROW. If during the initial survey it is determined any part of the sign (pole or panel) extends outside of the City’s Right of Way vertical plane and into private property, the installer must notify the city prior to fabrication/installation.

Reference View: Example - 5 foot Furnishing Zone / City Right of Way

SCALE: Not To Scale

Note: Top View of VDIR.1-3 shown as example.

Figure 7

Not to Scale
Menu of Sign Types
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

Notes:
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Contractor and Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
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ENvironments & Experiences

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

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3. Hardware: All exposed hardware shall be tamper proof fasteners.

4. All exposed edges painted to match adjacent face.

Notes:

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Parking Signage

Overview

Parking

Menu of Sign Types

Parking

Park.1 Parking Trailblazer

Park.2 Parking Lot Identification

Park.3 Parking Lot Identification

Park.4 Parking Garage Identification

Park.5

Park.6

Park.7

Park.8

Baltimore Avenue Garage

Level 2 Public Parking

Exit

Entrance

Clearance 6'-11"

Baltimore Avenue

Parking

Olive St.
Lot

Olive St.
Lot

Orange St.
Lot

Orange St.
Lot

BALTIMORE AVENUE GARAGE

Clearance 6'-11"
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---

**SPECIFICATIONS**

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---

**ENVIROMENTS & EXPERIENCES**

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Wayfinding and Signage System

---

**MENU OF SIGN TYPES**

**Pedestrian**

**Overview**

**PDIR.1**
Pedestrian Directional

**PDIR.2**
Pedestrian Directional

**KIOSK.1**
Pedestrian Kiosk

**KIOSK.2**
Pedestrian Kiosk

**COURT.1**
Courthouse Kiosk

**COURT.2**
Courthouse Directional

**BANNER.1**
Fabric Banner

**BANNER.1**
Permanent Banner

---

**DESTINATION LISTING**

- Baltimore Garage
- Delaware County Courthouse
- Baltimore Garage
- Delaware County Courthouse
- Media, PA

---

**BANNER ARTWORK**

- TBD

---

**MAP**

- TBD

---

**DIRECTIONS**

- TBD

---

**REVISIONS**

**CLIENT / PROJECT**

**SHEET TITLE**

**DATE**

06/30/16

**DRAWN BY**

LH

**PROJECT NO.**

C.4

**SHEET**

C.4
The Color Designator Chart is found in the Graphic Standards section.
The Specification Notation is found on the same page as the drawings.
NOTE: Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance. Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the eyes of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign Installation.

21. CUSTOM ART TILE
MATERIAL: 4" thk Reverse channel individual letters.
MANUFACTURER: Local Artist
THICKNESS: 1/2"
COLOR: Custom as noted. Artwork to be provided by client.
ADHESIVE: As required
GROUT: Epoxy grout or silicone sealant, color to match Dark Grey

22. ALUMINUM LETTERS
MATERIAL: 1/4" Aluminum. Pin-mount flush to surface.
MANUFACTURER: Local Artist
ADHESIVE: As required
FASTENER: Mechanically fastened to sign base cap.

SPECIFICATIONS
SIGN TYPE: GATE.1
FUNCTION: Borough Gateway

19. BRICK BASE
MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client.
BRICK STYLE: Modular or Standard brick
BRICK PATTERN: Running brick bond pattern
FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or provided by client.
COLOR: Match streetscape plan, or specs provided by client

23. BASE CAP
MATERIAL: 1/4" Aluminum sheet + 1" square tube
FABRICATION PROCESS: Router cut, Fabricated
EDGES: Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish
FASTENER: Mech. Fasten to Base
LETTERS: 3/8" thk Aluminum, Pin-mount flush to cabinet surface

24. CONCRETE CAP
MATERIAL: Precast concrete cap
FABRICATION PROCESS: Preferred custom size concrete cap
FASTENER CAPTETHER: Mortar

CONTACTS
Contact Philips lighting consultant for electrical and optics solutions for each location. Visit www.hadco.com

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. WELDS: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. CONSTRUCTION: Die-cast aluminum body, SS screws.

4. WARRANTY: 1 Year for mechanical, finish and electrical conditions.

5. NOTES: Underwriters Laboratories, Inc., UL508 listed, suitable for wet location

6. ETP: 1500, 159W listed, suitable for wet conditions.

7. FABRICATION PROCESS: Router Cut/Fabricated letters.

8. CONCRETE CAP: Mortar.


10. FASTENER: Mechanically fastened to sign base cap.

11. QUANTITY: Min. 2 per location as required after Field Testing.

12. WARRANTY: 1 Year for mechanical, finish and electrical conditions.

13. NOTES: Underwriters Laboratories, Inc., UL508 listed, suitable for wet location

14. ETP: 1500, 159W listed, suitable for wet conditions.

15. LETTERS: 3/8" thk Aluminum. Pin-mount flush to surface.

16. FASTENER: Mechanically fastened to sign base cap.

17. QUANTITY: Min. 2 per location as required after Field Testing.

18. WARRANTY: 1 Year for mechanical, finish and electrical conditions.

19. NOTES: Underwriters Laboratories, Inc., UL508 listed, suitable for wet location

20. ETP: 1500, 159W listed, suitable for wet conditions.


22. FASTENER: Mechanically fastened to sign base cap.

23. QUANTITY: Min. 2 per location as required after Field Testing.

24. WARRANTY: 1 Year for mechanical, finish and electrical conditions.

25. NOTES: Underwriters Laboratories, Inc., UL508 listed, suitable for wet location

26. ETP: 1500, 159W listed, suitable for wet conditions.

27. LETTERS: 3/8" thk Aluminum. Pin-mount flush to surface.

28. FASTENER: Mechanically fastened to sign base cap.
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D.2

1. 4.5" OD POLE
   MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/8" SIGN PANEL - PAINT
   MATERIAL: 1/8" thick Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to post with custom bracket, tamper-resistant hardware.

4. BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper-resistant hardware.

5. COLLAR
   MATERIAL: Cast Aluminum
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper-resistant hardware.

6. 4" FINIAL
   MATERIAL: Custom cast Aluminum-Finial
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper-resistant hardware.

50. BREAKAWAY FOOTER
   FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications and tolerances per PENNDOT.
The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Media Borough planning and engineering staff following the installation of the lights.
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17. LETTERS
   Scale: 3/16" = 1'-0"
   MATERIAL: Aluminum
   FABRICATION PROCESS: Router Cut, Fabricated Edges
   EDGES: Smooth
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to sign frame.

20. 12" COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

21. 12" FINIAL
   MATERIAL: Custom cast Aluminum Finial.
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

22. CUT ALUMINUM LETTERS
   MATERIAL: 2" x 2" reverse channel individual letters.
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to sign base cap.

23. CUT ALUMINUM LETTERS
   MATERIAL: 1 1/4" x 1 3/4" with As required by PA Structural Engineer
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

24. 12.75" OD POLE
   MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 12 (12.75" OD x .375" wall) As required by PA Structural Engineer
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FOOTER: As required by PA Structural Engineer

25. 12" COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

26. FABRICATED SIGN FRAME / PANEL
   MATERIAL: 1/4" thk. Aluminum panel, 1" Aluminum bar stock
   FABRICATION PROCESS: Router Cut, Fabricated Edges: Square, Smooth
   EDGES: Smooth
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole with collar / bracket.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, painted all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

E N V I R O N M E N T S  &  E X P E R I E N C E S

Media Borough, PA
Wayfinding and Signage System

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, painted all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

Sign Type DIST.1
District Gateway

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com
17. LETTERS  
SIZE: 3/16" thick. 
MATERIAL: Aluminum  
FABRICATION PROCESS: Router Cut Fabricated Edges  
EDGES: Smooth  
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. 
FASTENER: Mechanically fastened to sign frame.

25. 12.75" OD POLE  
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 12 (12.75" OD x .375" wall) As required by PA Structural Engineer  
FABRICATION PROCESS: Extruded  
EDGES: Smooth  
COLOR: Custom, as noted  
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. 
FOOTER: As required by PA Structural Engineer

26. 12" COLLAR/BRACKET  
MATERIAL: Custom Aluminum Bracket.  
FABRICATION PROCESS: Extruded  
COLOR: Custom, as noted  
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish. 
FASTENER: Mechanically fastened to pole, tamper resistant hardware.

30. FABRIC BANNER  
MATERIAL: Digital Print Banner: 18 oz. opaque white vinyl  
BANNER ARTWORK: To be provided by Client.

NOTES  
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. 
Fabricator shall obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. 
Hardware: Exposed hardware shall be tamper resistant.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

5. 6'-10"  
15'-0"  
24'-1"  
10'-6"  

6. BANNER ARTWORK TO BE DETERMINED BY BOROUGH

1. Front View: DIST.1a  
SCALE: 3/16" = 1'-0"

DISTRICT DIST.1A
The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, if any, subject to the review and approval of Media Borough planning and engineering staff following the installation of the lights.

**19. BRICK BASE**
- MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client.
- BRICK STYLE: Modular or Standard brick
- BRICK PATTERN: Running brick bond pattern
- FABRICATION PROCESS: Brick with grouting, technique to match streetscape plan, or provided by client.
- COLOR: Match streetscape plan, or spaces provided by client

**20. CUT ALUMINUM LETTERS**
- MATERIAL: 1/16" Individual Aluminum letters.
- FABRICATION PROCESS: Router Cut
- EDGES: Smooth
- FABRICATION PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- FASTENER: Mechanically fastened to back of face.

**21. BASE / SIGN CAP**
- MATERIAL: 1/4" Aluminum sheet + 1" square tube
- FABRICATION PROCESS: Router cut, Fabricated
- EDGES: Smooth
- FABRICATION PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- FASTENER: Mach. Fastened to Base
- LETTERS: 3/16" thick Aluminum. Pin-mount flush to cabinet surface

**22. CONCRETE CAPE**
- MATERIAL: Precast concrete cap.
- FABRICATION PROCESS: Prefinished custom size concrete cap
- CONCRETE CAP FASTENER: Mortar.

**23. 1/4" DECORATIVE (circles) SIGN PANEL**
- MATERIAL: 1/4" thick Aluminum sheet
- FABRICATION PROCESS: Router Cut
- EDGES: Smooth
- COLOR: custom, as noted
- FABRICATION PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
- FASTENER: Mechanically fastened to support brackets.

**24. CONCRETE LIGHTING**
- MATERIAL: Philips ColorBlast 12, color changing LED Floodlight: 2.5-3 per sign
- ACCESSORIES:
  - 120-000003-00 Accessory Holder for ColorBlast 12
  - White, Wet & Damp
  - 120-000007-00 Horizontal Spread Lens for ColorBlast 12 "360°
  - 120-000008-00 Horizontal Top Hat for ColorBlast 12 "360°
  - TEL: 3M Scotchcal ® #3630 with 3M approved UV/Graffiti Vinyl Overlaminate.

**25. ACRYLIC BUFFER BACKER**
- MATERIAL: 1/8" Acrylic
- FABRICATION PROCESS: Router Cut with applied Translucent vinyl or embedded color
- EDGES: Smooth
- COLOR: custom, as noted
- FASTENER: Mechanically fastened to back of decorative cut-out panel.

**NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
3. Composite: 0.25" high resolution digital print on slate or similar material.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

**TEAM LIAISON**
- T 484.266.0648
- www.merjedesign.com

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**ENVIRONMENTS & EXPERIENCES**

**SPECIFICATIONS**

**SIGN TYPE: DIST.2**

**FUNCTION: District Gateway**

**SIGNAGE SYSTEM**

**SIGNAGE SYSTEM**

**SIGNAGE SYSTEM**

**SIGNAGE SYSTEM**

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**CLIENT / PROJECT**

**PROJECT NO.**

**SHEET NO.**

**DATE**

**DRAWN BY**

**SIGN TYPE DIST.2**

**District Gateway**

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**D.6**

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**Drawing revision**

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**Media Borough, PA**

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**Suite 208**

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**West Chester, PA 19380**

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**T 484.266.0648**

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**www.merjedesign.com**

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These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. **4.5" OD POLE**
   - MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .188" wall)
   - FABRICATION PROCESS: Extruded
   - EDGES: Smooth
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.

2. **1/8" SIGN PANEL - REFLECTIVE**
   - MATERIAL: 1/8" thick Aluminum sheet
   - FABRICATION PROCESS: Router Cut
   - EDGES: Smooth
   - COLOR: Custom, as noted
   - GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.

3. **SUPPORT BAR**
   - MATERIAL: 1/4" thick Aluminum Sheet
   - FABRICATION PROCESS: Extruded
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.

4. **BRACKET**
   - MATERIAL: Custom Aluminum Bracket.
   - FABRICATION PROCESS: Extruded
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**
   - MATERIAL: Cast Aluminum
   - COLOR: Custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.

6. **50" BREAKAWAY FOOTER**
   - MATERIAL: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

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**SPECIFICATIONS**

**SIGN TYPE:** VDIR.2  
**FUNCTION:** Vehicular Directional

1. **4.5" OD POLE**  
   - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x 0.237" wall)  
   - **FABRICATION PROCESS:** Extruded  
   - **COLOR:** custom, as noted  
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

2. **1/8" SIGN PANEL - REFLECTIVE**  
   - **MATERIAL:** 1/8" thick Aluminum sheet  
   - **FABRICATION PROCESS:** Router Cut  
   - **COLOR:** custom, as noted  
   - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)  
   - **FASTENER:** Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.

3. **SUppORT BAR**  
   - **MATERIAL:** 1/4" thick Aluminum Sheet  
   - **FABRICATION PROCESS:** Extruded  
   - **COLOR:** custom, as noted  
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

4. **BRACKET**  
   - **MATERIAL:** Custom Aluminum Bracket.  
   - **FABRICATION PROCESS:** Extruded  
   - **COLOR:** custom, as noted  
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**  
   - **MATERIAL:** Cast Aluminum  
   - **COLOR:** custom, as noted  
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

6. **4" FINIAL**  
   - **MATERIAL:** Custom cast Aluminum Finial.  
   - **COLOR:** custom, as noted  
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

50. **BREAKAWAY FOOTER**  
   - **FOOTER:** The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

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**NOTES**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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**ENvironments & EXPERIENCES**

Media Borough, PA  
Wayfinding and Signage System

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**SPECIALIST**

**SIGN TYPE:** VDIR.2  
**FUNCTION:** Vehicular Directional

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**D.8**
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

**NOTES**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. All exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

5. Metal: Cast Aluminum.

6. Collar: Mechanically fastened to pole, tamper resistant hardware.

7. Final: Custom cast Aluminum Finial.


9. Pole is painted underneath bracket.

10. Bracket: Mechanically fastened to pole, tamper resistant hardware.

11. Footers: The Transpo® AP 4.5 Break Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. 4.5" OD POLE
   MATERIAL: Aluminum SCH 40 Pipe 6061-T6 - 4 (4.5" OD x .237" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

2. 1/8" SIGN PANEL - REFLECTIVE
   MATERIAL: .125" thick Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: Custom, as noted
   GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
   EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

3. SUPPORT BAR
   MATERIAL: .125" thick Aluminum Sheet
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.

4. BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

5. COLLAR
   MATERIAL: Cast Aluminum
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

6. 4" FINIAL
   MATERIAL: Custom cast Aluminum Finial.
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

50. BREAKAWAY FOOTER
    FOOTER: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

### ENVIRONMENTS & EXPERIENCES

#### CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

#### DATE
06/30/16

#### DRAWN BY:
L.H.

#### SHEET TITLE
Sign Type VDIR.4

#### PROJECT NO.
D.10

#### SIGN TYPE
Vehicular Directional

#### FUNCTION:
Vehicular Directional

#### NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

#### MATERIAL:
- **4.5" OD POLE**
  - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
  - **FABRICATION PROCESS:** Extruded
  - **COLOR:** custom, as noted
  - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
  - **FOOTER:** As per PENNDOT breakaway specs.

#### MATERIAL:
- **1/8" SIGN PANEL - REFLECTIVE**
  - **MATERIAL:** 1/8" thick Aluminum sheet
  - **FABRICATION PROCESS:** Router Cut
  - **COLOR:** custom, as noted
  - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
  - **FASTENER:** Press-roll per 3M requirements.
  - **Mechanically fastened to extrusion, tamper-resistant hardware.
  - **EDGE & BACK DETAIL:** Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

#### MATERIAL:
- **SUPPORT BAR**
  - **MATERIAL:** 1/4" thick Aluminum Sheet
  - **FABRICATION PROCESS:** Extruded
  - **COLOR:** custom, as noted
  - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
  - **FASTENER:** Weld to custom bracket. Bracket is mechanically fastened to pole.

#### MATERIAL:
- **BRACKET**
  - **MATERIAL:** Custom Aluminum Bracket.
  - **FABRICATION PROCESS:** Extruded
  - **COLOR:** custom, as noted
  - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
  - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

#### MATERIAL:
- **COLLAR**
  - **MATERIAL:** Cast Aluminum
  - **COLOR:** custom, as noted
  - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
  - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

#### MATERIAL:
- **4" FINIAL**
  - **MATERIAL:** Custom cast Aluminum Finial.
  - **COLOR:** custom, as noted
  - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
  - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

#### MATERIAL:
- **50. BREAKAWAY FOOTER**
  - **FOOTER:** The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. **4.5" OD POLE**
   - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x 0.237" wall)
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

2. **1/8" SIGN PANEL - REFLECTIVE**
   - **MATERIAL:** 1/8" thick Aluminum sheet
   - **FABRICATION PROCESS:** Router Cut
   - **COLOR:** custom, as noted
   - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - **FASTENER:** Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
   - **EDGE & BACK DETAIL:** Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

3. **SUPPORT BAR**
   - **MATERIAL:** 1/4" thk Aluminum Sheet
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.

4. **BRACKET**
   - **MATERIAL:** Custom Aluminum Bracket.
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**
   - **MATERIAL:** Cast Aluminum
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

6. **FINIAL**
   - **MATERIAL:** Custom cast Aluminum Finial.
   - **COLOR:** custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

**NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

**ENVIRONMENTS & EXPERIENCES**

**MERJE**
120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com
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**NOTES**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

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**SPECIFICATIONS**

**SIGN TYPE:** VDIR.6  
**FUNCTION:** Vehicular Directional

1. **4.5" OD POLE**  
   **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)  
   **FABRICATION PROCESS:** Extruded  
   **EDGES:** Smooth  
   **COLOR:** Custom, as noted  
   **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

2. **1/8" SIGN PANEL - REFLECTIVE**  
   **MATERIAL:** 1/8" thick Aluminum Sheet  
   **FABRICATION PROCESS:** Router Cut  
   **EDGES:** Smooth  
   **COLOR:** Custom, as noted  
   **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)  
   **FASTENER:** Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.  
   **EDGE & BACK DETAIL:** Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

3. **SUPPORT BAR**  
   **MATERIAL:** 1/4" thick Aluminum Sheet  
   **FABRICATION PROCESS:** Extruded  
   **COLOR:** Custom, as noted  
   **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   **FASTENER:** Weld to custom bracket. Bracket is mechanically fastened to pole.

4. **BRACKET**  
   **MATERIAL:** Custom Aluminum Bracket.  
   **FABRICATION PROCESS:** Extruded  
   **COLOR:** Custom, as noted  
   **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**  
   **MATERIAL:** Cast Aluminum  
   **COLOR:** Custom, as noted  
   **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

6. **4" FINIAL**  
   **MATERIAL:** Custom cast Aluminum Finial.  
   **COLOR:** Custom, as noted  
   **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.  
   **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

50. **BREAKAWAY FOOTER**  
   **FOOTER:** The Transpo® AP 4.5 Break Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. **4.5" OD POLE**
   - MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
   - FABRICATION PROCESS: Extruded
   - EDGES: Smooth
   - COLOR: custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.
   - FOOTER: Per PENNDOT breakaway specs.

2. **1/8" SIGN PANEL - REFLECTIVE**
   - MATERIAL: 1/8" thick Aluminum sheet
   - FABRICATION PROCESS: Router Cut
   - EDGES: Smooth
   - COLOR: custom, as noted
   - GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   - FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.

3. **SUPPORT BAR**
   - MATERIAL: 1/4" thick Aluminum Sheet
   - FABRICATION PROCESS: Extruded
   - EDGES: Smooth
   - COLOR: custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Weld to custom bracket. Bracket is mechanically fastened to pole.

4. **BRACKET**
   - MATERIAL: Custom Aluminum Bracket.
   - FABRICATION PROCESS: Extruded
   - EDGES: Smooth
   - COLOR: custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**
   - MATERIAL: Cast Aluminum
   - COLOR: custom, as noted
   - SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - FASTENER: Mechanically fastened to pole, tamper resistant hardware.

6. **50. BREAKAWAY FOOTER**
   - MATERIAL: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

**NOTES**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

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**SPECIFICATIONS**

**SIGN TYPE:** VDIR.7  **FUNCTION:** Vehicular Directional

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**EQUIPMENT & EXPERIENCES**

**Media Borough, PA**
**Wayfinding and Signage System**

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**CERTIFICATIONS**

**SIGN Type VDIR.7**  **Vehicular Directional**
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. 4.5" OD POLE
   MATERIAL: Aluminum SCH 40 Pipe 6061 T6 - 4 (4.5" OD x .237" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

5. COLLAR
   MATERIAL: Cast Aluminum
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

2. 1/8" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/8" thick Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: custom, as noted
   GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate. (See Color Sheet for all color and material specifications)
   FASTENER: Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
   EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

6. FINIAL
   MATERIAL: Custom cast Aluminum Finial
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

3. SUPPORT BAR
   MATERIAL: 1/4" thk Aluminum Sheet
   FABRICATION PROCESS: Extruded
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Weld to custom bracket Bracket. Bracket is mechanically fastened to pole.

7. BREAKAWAY FOOTER
   MATERIAL: The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.

NOTES
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Media: All media shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

ENVIROS & EXPERIENCES
120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com
1. **4.5" OD POLE**
   - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FOOTER:** As per PENNDOT breakaway specs.

2. **1/8" SIGN PANEL - REFLECTIVE**
   - **MATERIAL:** 1/8" thick Aluminum sheet
   - **FABRICATION PROCESS:** Router Cut
   - **COLOR:** Custom, as noted
   - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate.
   - **FASTENER:** Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.

3. **SUPPORT BAR**
   - **MATERIAL:** 1/4" thick Aluminum Sheet
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Weld to custom bracket. Bracket is mechanically fastened to pole.

4. **BRACKET**
   - **MATERIAL:** Custom Aluminum Bracket.
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

5. **COLLAR**
   - **MATERIAL:** Cast Aluminum
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

6. **4" FINIAL**
   - **MATERIAL:** Custom cast Aluminum Finial.
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

50. **BREAKAWAY FOOTER**
   - **FOOTER:** The Transpo® AP 4.5 Break-Safe system, according to specifications per PENNDOT.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. **4.5" OD POLE**
   - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x 0.237" wall)
   - **FABRICATION PROCESS:** Extruded
   - **EDGES:** Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FOOTER:** As per PENNDOT breakaway specs.

2. **1/8" SIGN PANEL - REFLECTIVE**
   - **MATERIAL:** 1/8" thick Aluminum sheet
   - **FABRICATION PROCESS:** Router Cut
   - **EDGES:** Smooth
   - **COLOR:** Custom, as noted
   - **GRAPHIC BACKGROUND AND COPY PROCESS:** 3M custom inks print direct to 3930 with 3M approved 164/Goffri Strip Over-laminate. (See Color Sheet for all color and material specifications)
   - **FASTENER:** Press-roll per 3M requirements. Mechanically fastened to extrusion, tamper-resistant hardware.
   - **EDGE & BACK DETAIL:** Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

3. **BRACKET**
   - **MATERIAL:** Custom Aluminum Bracket.
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

4. **4" FINIAL**
   - **MATERIAL:** Custom cast Aluminum Finial.
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENER:** Mechanically fastened to pole, tamper resistant hardware.

**NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. All fasteners shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

**ENVIROMENTS & EXPERIENCES**

Media Borough, PA
Wayfinding and Signage System
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

5. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

6. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

7. SIGN PANEL - PAINT
   MATERIAL: 1/4" thick Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to Bracket.
1. 4.5" OD POLE
MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4
(4.5" OD x .237" wall)
FABRICATION PROCESS: Extruded
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENERS: Mechanically fastened to pole, tamper resistant hardware.

2. COLLAR/BRACKET
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENERS: Mechanically fastened to pole, tamper resistant hardware.

3. 1/4" SIGN PANEL - PAINT
MATERIAL: 1/4" thick Aluminum sheet
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENERS: Mechanically fastened to Bracket.
Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be uni-
flow of traffic or into the night sky. Power Supply is to be provided by the Borough of Media within 6 feet of Sign
installation.

**NOTES:**
- Lighting of sign types shall be of the appropriate level - to maintain a selectable and comfortable viewing
distance.
- Field testing of light fixtures is required - to verify placement/quantity and light luminosity. Lighting shall be un-
from without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the
- Signage shall be proofread by client and legal requirements checked prior to proceeding with fabrication. All copy shall be
- Materials shall be fabricated in accordance with the requirements and conditions it presents. This office must be noti-
- These drawings are meant for DESIGN INTENT ONLY - to provide the designer with a clear understanding of the job. Contractor shall be familiar with the site
- Details must be submitted to this office for approval prior to proceeding with fabrication. Shop drawings and
- The sign content shall be provided in legible type to be determined by the fabricator. Contractor shall verify the a.
- All exposed edges painted to match adjacent face.
- Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
- The fabricator shall provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
- These sign structures shall be designed to withstand wind, snow and other environmental conditions. The fabricator shall verify the above mentioned conditions.
- The sign shall be fabricated from 1.5" X 1.5" Aluminum U-Channel Extrusions, mounted on a stretcher beam or stud, or
- Shown drawn as intended to Media Borough / PA, and are subject to fabrication. Contractor shall verify the above mentioned
- The sign shall be fabricated from 1.5" X 1.5" Aluminum U-Channel Extrusions, mounted on a stretcher beam or stud, or
- The sign shall be fabricated from 1.5" X 1.5" Aluminum U-Channel Extrusions, mounted on a stretcher beam or stud, or
- The sign shall be fabricated from 1.5" X 1.5" Aluminum U-Channel Extrusions, mounted on a stretcher beam or stud, or
- The sign shall be fabricated from 1.5" X 1.5" Aluminum U-Channel Extrusions, mounted on a stretcher beam or stud, or
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

NOTES

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

17. LETTERS

Size: 3/8" Thk. MATERIAL: Aluminum FABRICATION PROCESS: Router Cut Edges

SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

MOUNTING: mechanically fastened to existing wall. Anchor suitable for wall material.

18. SIGN PANEL

MATERIAL: 1/4" Brick Aluminum sheet FABRICATION PROCESS: Router Cut EDGES: Smooth

COLOR: custom, as noted

GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom vinyl print direct to 3930 with 3M approved UV/Graffiti Vinyl Over-laminate.

FASTENER: Press-roll per 3M requirements. Mechanically fastened to existing structure. Anchor suitable for wall material.

MOUNTING SURFACE: Concrete or Brick VIF

*Fabricator shall VIF all measurements in field
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Media Borough, PA
Wayfinding and Signage System

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

10. POLE STRAP ATTACHMENT

Band-It Band: COLOR-IT® Coating, Product #C206C9-P900 (or approved equal)
MATERIAL: 201 Stainless Steel, coated with COLOR-IT® Polyester coating
SIZE: 3/4 inch
FINISH: To match existing pole, pole color may vary - verify in field
FASTENER: Ultra-Lok® Free End clamps

NOTE: Sign Contractor to coordinate the removal or movement of interfering existing signs on utility poles, with the city.

11. BRACKET

MATERIAL: 3/16” thick Aluminum U-Channel
FABRICATION PROCESS: Extruded
EDGES: Square, Smooth
COLOR: custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Tamper-resistant mechanically fastened to Sign Panel. SS strap-mounted to utility pole.
1. 4" OD POLE
   MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 4 (4.5" OD x .237" wall)
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

2. 4" FINIAL
   MATERIAL: Custom cast Aluminum Finial.
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

3. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

4. 1/4" SIGN PANEL
   MATERIAL: 1/4" thick Aluminum sheet
   FABRICATION PROCESS: Router Cut
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole with bracket.

5. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

6. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.

7. COLLAR/BRACKET
   MATERIAL: Custom Aluminum Bracket.
   FABRICATION PROCESS: Extruded
   EDGES: Smooth
   COLOR: Custom, as noted
   SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   FASTENER: Mechanically fastened to pole, tamper resistant hardware.
14. SIGN PANEL
MATERIAL: 1/4" thick aluminum panel.
FABRICATION PROCESS: Router Cut.
EDGES: Square, Smooth.
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

19. BRICK BASE
MATERIAL: Partition cinderblock core and brick facade to match streetscape plan, or chosen by client.
BRICK STYLE: Modular or Standard brick.
BRICK PATTERN: Running brick bond pattern.
FABRICATION PROCESS: Brick with grouting technique to match streetscape plan, or chosen by client.
COLOR: Match streetscape plan, or chosen by client.

23. BASE CAP
MATERIAL: 1/4" Aluminum sheet + square tube.
FABRICATION PROCESS: Router cut, fabricated.
EDGES: Smooth.
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENING: Mechanically fastened to base.
LETTERING: 3/8" thick Aluminum. Pin-mount flush to cabinet surface.

29. KIOSK SIGN CABINET - Internally Illuminated
MATERIAL: Fabricated 1/8" thick Aluminum sheet exterior, extruded aluminum internal framing, hinged doors 2 sides with Non-glare UV-resistant acrylic, and locking mechanism for both doors.
EDGES: Square.
INSIDE FRAME: Beveled edge.
ILLUMINATION: Internally illuminated with LED Tube Lights.
ARTWORK: Duratrans (backlit display print), mounted in-between 2 sheets of 1/8" thick acrylic, with 3M Diffuser Film 3735-60 White applied to back side of acrylic sheets.
COLOR: custom, as noted.
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Weld and mechanically fasten to internal poles.
Artwork to be provided by Borough of Media.
12. **3.5" OD POLE**
   - **MATERIAL:** Aluminum SCH 40 Pipe 6061T6 - 3 (3.5" OD x .216" wall)
   - **FABRICATION PROCESS:** Extruded
   - **EDGES:** Smooth
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FOOTER:** Direct Bury or Plate-to-Plate footer TBD by client.

13. **3" FINAL**
   - **MATERIAL:** Custom cast Aluminum Finial.
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENERS:** Mechanically fastened to pole, tamper resistant hardware.

14. **SIGN PANEL**
   - **MATERIAL:** 1/4" thick aluminum panel
   - **FABRICATION PROCESS:** Router Cut
   - **EDGES:** Square, Smooth
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

15. **3" COLLAR/BRACKET**
   - **MATERIAL:** Custom Aluminum Bracket.
   - **FABRICATION PROCESS:** Extruded
   - **COLOR:** Custom, as noted
   - **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
   - **FASTENERS:** Mechanically fastened to pole, tamper resistant hardware.

**NOTES**
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer or client for placement prior to fabrication.
2. welded. All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

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**ENVIROMENTS & EXPERIENCES**
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Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

5. Sign Type COURT.1

6. Courthouse Kiosk

7. MATERIAL: Aluminum SCH 40 Pipe 6061T6 - 3 (3.5" OD x .216" wall)

8. FABRICATION PROCESS: Extruded

9. EDGES: Smooth

10. COLOR: Custom, as noted

11. SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

12. FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

13. MATERIAL: Custom cast Aluminum Finial.

14. COLOR: Custom, as noted

15. SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

16. FASTENERS: Mechanically fastened to pole, tamper resistant hardware.

17. SIGN PANEL

18. MATERIAL: 1/4" thick aluminum panel

19. FABRICATION PROCESS: Router Cut

20. EDGES: Square, Smooth

21. SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel

22. CLEAR UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

23. FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

24. 3" FINIAL

25. MATERIAL: Custom cast Aluminum Finial.

26. COLOR: Custom, as noted

27. SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

28. FASTENERS: Mechanically fastened to pole, tamper resistant hardware.

29. 3" COLLAR/BRACKET

30. MATERIAL: Custom Aluminum Bracket.

31. FABRICATION PROCESS: Extruded

32. COLOR: Custom, as noted

33. SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

34. FASTENERS: Mechanically fastened to pole, tamper resistant hardware.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

Media Borough, PA
Wayfinding and Signage System

120 North Church Street
Suite 208
West Chester, PA 19380
T 484.266.0648
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SIGN TYPE: Courthouse Ped. Dir.
FUNCTION: Courthouse

12. 3.5" OD POLE
MATERIAL: Aluminum SCH 40 Pipe 6061-T6 - 3 (3.5" OD x .216" wall)
FABRICATION PROCESS: Extruded
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FOOTER: Direct Bury or Plate-to-Plate footer TBD by client.

13. 3" FINIAL
MATERIAL: Custom cast Aluminum Finial.
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENERS: Mechanically fastened to pole, tamper resistant hardware.

14. SIGN PANEL
MATERIAL: 1/4" thick alum. panel
FABRICATION PROCESS: Router Cut
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

15. 3" COLLAR/BRACKET
MATERIAL: Custom Aluminum Bracket.
FABRICATION PROCESS: Extruded
COLOR: Custom, as noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENERS: Mechanically fastened to pole, tamper resistant hardware.
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer

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### SPECIFICATIONS

**SIGN TYPE:** BANNER.1-2  
**FUNCTION:** Banner

#### 30. FABRIC BANNER

- **MATERIAL:** Digital Print Banner: 18 oz. opaque white vinyl  
- **BANNER ARTWORK:** To be provided by Client.  
- **WARRANTY:** 5 years  
- **CONSTRUCTION:** 2 inch pole pockets on top and bottom, secured with double-lock stitching and back-stitching in areas of stress. Side-hems are double-nicked and double lock stitched. Brass-spurred grommets are applied to the 3 inside corners locking the hem and providing security at stress points.

**ATTACHMENT:** Slide banner pole pockets onto bracket fiberglass rod. Attach flexible plastic tie, or cable, to brass grommet and to Banner Saver™ Pro 2000 bracket (spring-loaded wind release brackets), top and bottom.

**BANNER BRACKET**

- **PRODUCT:** Banner Saver™ Pro 2000 bracket  
- **MATERIAL:** Two-piece cast aluminum base with patented absorption spring. 1/4” removable fiberglass banner arm with tempered aluminum alumin.

**POLE STRAP ATTACHMENT:** Match Existing Light Pole Color - Black

#### 31. PERMA BANNER

- **PRODUCT:** Perma-Banner  
- **MATERIAL:** 6mm thick Aluminum Panel or FABRICATION PROCESS: Router cut Trolley Graphic, “State Street” Text applied vinyl.  
- **SURFACE PROCESS:** Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

**FASTENER:** Mechanically fastens to Perma-Banner Pole Mount assembly.  
**POLE STRAP ATTACHMENT:** Match Existing Light Pole Color - Black

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### NOTES

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.

3. All exposed edges painted to match adjacent face.

4. Fabricator Shop Drawings shall be signed and sealed by PA Registered Structural Engineer.

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**ENVIRONMENTS & EXPERIENCES**

120 North Church Street  
Suite 208  
West Chester, PA 19380  
T 484.266.0648  
www.merjedesign.com

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**SUBCONSULTANT**

**DATE:**  
06/30/16

**OWNER:**  
Media Borough, PA

**PROJECT NO.:**  
D.27

**SIGN TYPE:** BANNER.1-2  
**FUNCTION:** Banner
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**SIGN PANEL LAYOUTS:**

**NOTES:**
- Messages shown are NOT actual messages. Provided for illustrative purposes only.
- Refer to message schedule for actual sign messages.
- Panel layouts for ALL sign locations shall be included in shop drawings for review by designer and client.

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**EQUIPMENT & EXCERPTIONS**

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---

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Media Borough, PA
Wayfinding and Signage System

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� 3/4" = 1'-0" 装备制造：VDIR.1

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LH
06/30/16

Specifications:

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Media Borough, PA
Wayfinding and Signage System

Graphic Layouts: VDIR.2

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

Location 104: Media Free Library
Location 124: Delaware Co Courthouse
Location 102: Municipal Center
Location 103: Municipal Center
Location 110: State St District
Location 127: State St District
Location 108: Rose Tree Dist School Offices

Notes:

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Client / Project / Sheet Title / Date / Project No. / Drawn By / Sheet No.
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E.4

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Media Borough, PA
Wayfinding and Signage System

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Graphic Layout: VDIR.2
SCALE: 3/4" = 1'-0"

Location 112
Location 115
Location 117
Location 129
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1. **Scaled at 75%**

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Media Borough, PA
Wayfinding and Signage System
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ENVIROMENTS & EXPERIENCES

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NOTES:

Media Borough, PA
Wayfinding and Signage System

Graphic Layout: VDIR.6
SCALE: 3/4" = 1'-0"

Location 207

Location 203
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SIGN PANEL LAYOUTS:

- Media Borough, PA
- Wayfinding and Signage System

### Location 201

- State St District
- Youth Center
- Delaware Co Courthouse

### Location 204

- State St District
- Media Theatre

### Location 205

- Media Station
- Public Parking

**Graphic Layouts**

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NOTES:
1. Media Borough, PA
2. Wayfinding and Signage System

SIGN PANEL LAYOUTS:
NOTES:
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Media Theatre
State St District
Media Station

Rose Tree District
School Offices
Municipal Center

Media Theatre
State St District
Media Station

Public Parking
State St District
Media Station

Location 200
Location 202
Location 206

Graphic Layout: VDIR.8
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Media Borough, PA
Wayfinding and Signage System

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Graphic Layout: RES.1

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Media Borough, PA
Wayfinding and Signage System

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**Graphic Layouts:**

- **PARK.1**
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Media Borough, PA
Wayfinding and Signage System

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PARKING

OLIVE ST.
LOT

Delaware Co Courthouse
Institute of Science
Plum St Mall

Location 300

SCALE: 1" = 1'-0"

PARKING

OLIVE ST.
LOT

Delaware Co Courthouse
Institute of Science
Plum St Mall

Location 301

PARKING

FRONT ST.
LOT

State St District
Media Free Library
Plum St Mall

Location 302

Graphic Layout: PARK.2

SCALE: 1" = 1'-0"

2'-11 1/2"
25"
19 1/2"
17 3/4"
5 1/4"

5 1/8"
2 7/8"
1/4"
3"
2 3/4"
1 3/4"
3"
2 3/4"
1 3/4"
3"
2 1/4"
1'-9 1/2"
2 1/4"
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Media Borough, PA
Wayfinding and Signage System

**Graphic Layout:** PARK.2
**SCALE:** 1" = 1'-0"
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**ENvironments & Experiences**

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**Graphic Layout: PARK.3**

**SCALE: 1" = 1'-0"**

Location 306
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规格

1. 供应商需核实安装条件，并提供每个安装情况的详细图纸，以供开工前参考。供应商必须获得设计师或客户批准的放置位置，才能开始制作。
2. 焊接：所有焊接需磨光，并涂覆缝隙。
3. 硬件：所有外露硬件需使用防篡改紧固件。
4. 所有外露边缘需涂覆以匹配相邻表面。

注释：

• 本文件中的指示仅用于示意图说明。实际指示请参阅指示表。
• 请参照指示表中的实际指示。
• 涂装所有安装处，包括安装面和安装面之间的边缘。
• 请提供所有安装位置的面板布局图以供设计师和客户审查。
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E.16

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Location 522
- Side A
- Side B

Location 523
- Side A
- Side B

Location 505
- Side A
- Side B

Location 506
- Side A
- Side B

Institute of Science
- Glen Providence Park
- Delaware County Courthouse
- Orange St Lot

Plum St Mall
- Pennsylvania Veteran’s Museum
- Upper Providence Free Library
- Media Presbyterian Church
- Delaware County Courthouse
- Baltimore Ave Garage

Pennsylvania Veteran’s Museum
- Media Theatre
- Fellowship House
- Media Presbyterian Church
- Glen Providence Park
- State St Lot

Upper Providence Free Library
- Delaware County Courthouse
- Olive St Lot
- Front St Lot

Destination Listing
- Location 522 Side A
- Location 522 Side B
- Location 523 Side A
- Location 523 Side B
- Location 505 Side A
- Location 505 Side B
- Location 506 Side A
- Location 506 Side B

NOTE:
- The following rooms are shown to indicate location only. The room name shown is for reference only.
- The room name shown is for reference only.
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Media Borough, PA
Wayfinding and Signage System

ENVIROMENTS & EXPERIENCES

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1. Fabricator is notified of the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

SIGN PANEL LAYOUTS:

NOTES:

- Messages shown are NOT actual messages. Provided for illustrative purposes only.
- Refer to message schedule for actual sign messages.
- Panel layouts for ALL sign locations shall be included in shop drawings for review by designer and client.
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ENVIRONMENTS & EXPERIENCES

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Merje

Media Borough, PA
Wayfinding and Signage System

Location 519
Side A

Location 519
Side B

Fellowship House

State Street District

Plum St Mall

Pennsylvania Veteran’s Museum

Upper Providence Free Library

Media Presbyterian Church

Baltimore Ave Garage

NOTES:

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NOTES:

Graphic Layout: COURT.1
SCALE: 1" = 1'-0"

Media Borough, PA
Wayfinding and Signage System

E.22
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1.

Media Borough, PA
Wayfinding and Signage System

SIGN PANEL LAYOUTS:
NOTES:
• Messages shown are NOT actual messages. Provided for illustrative purposes only.

Environmental & Experiences

1. 2 1/2" = 1'-0"

Graphic Layout: COURT.2
SCALE: 1 1/2" = 1'-0'

Source: Delaware County Courthouse

Destination Listing

Media Borough, PA

COURT.2
Graphic Layouts
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**Section View: GATE.2**

SCALE: 3" = 1'-0"

1. 1/4" thick Fabricated Aluminum Mounting Bracket
2. 1/4" Aluminum Sheet Weld to Mounting Bracket
3. 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe
4. 1/8" Aluminum Panel, Mechanically fasten to Mounting Bracket
5. 1/8" Cut Aluminum Letters, Pin-Mount
6. Custom Cast Aluminum Finial

**Section View: GATE.2**

SCALE: 3" = 1'-0"

1. 1/4" thick Fabricated Aluminum Mounting Bracket
2. 1/8" Aluminum Panel
3. 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe
4. 1/8" Aluminum Panel
5. 1/8" Cut Aluminum Letters, Pin-Mount
6. Custom Cast Aluminum Finial

**Construction Details**

**GATE.2**

---

**Media Borough, PA**

Wayfinding and Signage System

---

**SPECIFICATIONS**

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---

**120 North Church Street**

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**Environments & Experiences**

**VDIR.1-8**

**Section Details**

**Scale:** 3" = 1'-0"
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**SPECIFICATIONS**

**Construction Details**

**Sign Type:**
- PARK.1
- PARK.2
- PARK.3
- PDIR.1

**NOTES:**
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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**Section View: PARK.2-3, PDIR.2**
- SCALE: 3" = 1'-0"
- 1/4" thick Fabricated Aluminum Mounting Bracket
- 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe
- 1/4" Aluminum Sign Panel

**Collar Detail: PARK.2-3, PDIR.2**
- SCALE: 3" = 1'-0"
- Fabricated Aluminum Mounting Bracket
- 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe
- 1/4" Aluminum Sign Panel

**Section View: PARK.1**
- SCALE: 3" = 1'-0"
- 1/4" thick Fabricated Aluminum Mounting Bracket
- 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe
- 1/4" Aluminum Sign Panel

**Media Borough, PA**
Wayfinding and Signage System

**PROJECT NO.**
PARK.1-3 & PDIR.2

**SCALE:**
- 3" = 1'-0"
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COURT.1-2, KIOSK.2

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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

Fabricated Aluminum Mounting Bracket
3" (3.5" OD x .216 wall)
Schedule 40 Aluminum Pipe

1/4" Aluminum Sign Panel

Custom Cast Aluminum Finial

Fabricated Aluminum Mounting Bracket

1/4" Aluminum Sign Panel
Mechanically fastened to mounting bracket

Section View: KIOSK.2, COURT.1-2
SCALE: 3" = 1'-0"
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Media Borough, PA
Wayfinding and Signage System

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**NOTES:**

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**SPECIFICATIONS**

1. **4" Pole Finial Details**
   - SCALE: 3" = 1'-0"
   - Custom Cast Aluminum Finial
   - 4" (4.5" OD x .237 wall) Schedule 40 Aluminum Pipe

2. **3" Pole Finial Details**
   - SCALE: 3" = 1'-0"
   - Custom Cast Aluminum Finial
   - 3" (3.5" OD x .216 wall) Schedule 40 Aluminum Pipe

**F.5**
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ENVIRONMENTS & EXPERIENCES

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:

1. Soil is average with maximum allowable soil pressure of 3,000 pounds per square foot, soil unit weight of 125pcf and friction angle of 30 degrees (assumed).
2. Concrete strength at 28 days F"c=4,000 psi
3. Follow the most recent penndot design standards for material and construction information for the sign post bases and foundations not otherwise specified in these contract drawings.
4. For sign post sizes refer to the design intent drawing sheets.
The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks. The FABRICATOR shall be familiar with all basement/vault locations by obtaining plans from the local municipality Department of Public Works.

Where a basement/vault interferes with a proposed location, the sign shall be relocated to a location deemed appropriate by the municipalities Department of Public Works.

Where relocation is not an option the FABRICATOR will develop the appropriate mounting solution. The solution shall meet all engineering criteria as established by the standard footings (i.e. windloads).

FINAL DESIGNS AND SHOP DRAWINGS SHALL BE SUPPLIED BY THE FABRICATOR FOR EACH OF THE BREAK-AWAY POLES IDENTIFIED AND AN PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER IS REQUIRED TO SIGN AND SEAL THE SUBMITTAL OF SHOP DRAWINGS.

NOTE:
1) SOIL IS AVERAGE WITH MAXIMUM ALLOWABLE SOIL PRESSURE OF 2,000 Pounds per SQUARE FOOT. SOIL UNIT WEIGHT OF 125pcf AND FRICTION ANGLE OF 20 DEGREES (ASSUMED).
2) CONCRETE STRENGTH AT 28 DAYS FC=4,000 PSI REINFORCEMENT SHALL BE ASTM 36 FY=60,000 PSI
3) FOLLOW THE MOST RECENT PENNDOT DESIGN STANDARDS FOR MATERIAL AND CONSTRUCTION INFORMATION FOR THE SIGN POST BASES AND FOUNDATIONS NOT OTHERWISE SPECIFIED IN THESE CONTRACT DRAWINGS.
4) FOR SIGN POST SIZES REFER TO THE DESIGN INTENT DRAWINGS.

NOTES:
1) Foundation must be stable and able to support the sign post safely.
2) All works shall be ground protected, paint all surfaces.
3) All drainage at exposed locations shall be to prevent water accumulation.
4) All exposed edges painted to match adjacent face.

**SPECIFICATIONS**

**ENVIRONMENTS & EXPERIENCES**

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GATE.3 Construction Details

**NOTES:**

1. Foundation must be stable and able to support the sign post safely.
2. All works shall be ground protected, paint all surfaces.
3. All drainage at exposed locations shall be to prevent water accumulation.
4. All exposed edges painted to match adjacent face.

**F.7**

Section: GATE.3 Left Side

**SCALE:** 1" = 1'-0"

1/2" Dia. A36 Galvanized Threaded Rod w/end, leveling & Jam Nuts w/1/2" Min. Embedment
65 Bars @ 1/2" C.C. W. Mix Top & Bottom of Footing 3" Clear Cover Type

Below Grade

**3'-0" min.**

Sign Centered on footing

1/2" thick Metal Plaque Etched and Filled Characters Black Brushed Aluminum

**SCALE:** 1" = 1'-0"

Section: GATE.3 Right Side

1/2" Dia. A36 Galvanized Threaded Rod w/end, leveling & Jam Nuts w/1/2" Min. Embedment
65 Bars @ 1/2" C.C. W. Mix Top & Bottom of Footing 3" Clear Cover Type

Below Grade

**3'-0" min.**

Sign Centered on footing

**Distance located and tested in field**

**Planting Bed**

**1/2" thick Metal Plaque Etched and Filled Characters Black Brushed Aluminum**

**Sketch Cap**

**Philips® Stonco® LytePro LED Small Floodlight 40W LPP2**

**QTY 2 each side (left/right) 4 units total**

**Media Borough, PA Wayfinding and Signage System**

**DATE:** 06/30/16

**DRAWN BY:** LH

**CLIENT / PROJECT:** LH

**PROJECT NO.**

**SHEET TITLE:** GATE.3

**SHEET NO.**

**EVEN ENVIRONMENTS & EXPERIENCES**

**PROJECT NO.**

**SHEET TITLE:** GATE.3

**SHEET NO.**

**REVISES**
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LH
06/30/16

ENVIRONMENTS & EXPERIENCES

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2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

NOTES:

1. All components shall be furnished with stainless steel mounting hardware. Stainless steel hardware shall be furnished for all exposed hardware.
2. All components shall be furnished with a miscellaneous schedule of materials.
3. All components shall be furnished with a miscellaneous schedule of tools.
4. All components shall be furnished with a miscellaneous schedule of supplies.
5. All components shall be furnished with a miscellaneous schedule of instructions.

SPECIFICATIONS

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**SPECIFICATIONS**

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3. FOLLOW THE MOST RECENT PENNDOT DESIGN STANDARDS FOR MATERIAL AND CONSTRUCTION INFORMATION FOR THE SIGN POST BASSES AND FOUNDATIONS NOT OTHERWISE SPECIFIED IN THESE CONTRACT DRAWINGS.
4. FOR SIGN POST SIZES REFER TO THE DESIGN INTENT DRAWING SHEETS.

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**ENvironments & Experiences**

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.

2. Foundation Details

3. Section View: Foundation: Shallow Depth
   **SCALE: 3/4" = 1'-0"**
   - Existing Concrete Slab
   - Concrete Footing
   - Reference PENNDOT

4. Section View: Foundation: Extremely Shallow Depth
   **SCALE: 3/4" = 1'-0"**
   - Existing Concrete Slab
   - Concrete Footing
   - Reference PENNDOT

5. Section View: Foundation: Pavers
   **SCALE: 3/4" = 1'-0"**
   - Existing Pavers
   - Concrete Footing
   - Reference PENNDOT

6. Section View: Foundation: Shallow Depth
   **SCALE: 3/4" = 1'-0"**
   - Existing Concrete Slab
   - Concrete Footing
   - Reference PENNDOT

7. Section View: Foundation: Extremely Shallow Depth
   **SCALE: 3/4" = 1'-0"**
   - Existing Concrete Slab
   - Concrete Footing
   - Reference PENNDOT
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F.10

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<table>
<thead>
<tr>
<th>NOTES:</th>
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<tbody>
<tr>
<td>Media Borough, PA</td>
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<td>Wayfinding and Signage System</td>
</tr>
<tr>
<td>Plate-to-Plate Footer Detail</td>
</tr>
<tr>
<td>1) Soil is average with maximum allowable soil pressure of 3,000 pounds per square foot, soil unit weight of 125pcf and friction angle of 30 degrees (assumed).</td>
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<td>2) Concrete strength at 28 days $f'_c=4,000$ psi reinforcement shall be ASTM A36 $f_y=60,000$ psi</td>
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</tr>
<tr>
<td>4) For sign post sizes refer to the design intent drawing sheets.</td>
</tr>
</tbody>
</table>

E N V I R O N M E N T S & E X P E R I E N C E S

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S P E C I F I C A T I O N S

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FABRICATOR shall be familiar with all basement/vault locations by obtaining plans from the local municipality Department of Public Works.

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NOTE: When locating a footer within a single pavement block adjacent to at least 2 expansion joints, the entire block of pavement shall be removed and replaced with the same materials and finish of adjacent sidewalk areas.

1. Plan: Footer Placement
   SCALE: NTS

2. Plan View: Footer
   SCALE: 1" = 1'-0"

3. Plan: Specialty Pavers Footer Placement
   SCALE: NTS

NOTE: The pattern of bricks need to be removed, stored and replaced in the order they were removed. Marking the Specialty Pavers sidewalk with spray paint will NOT be allowed.

NOTE: When locating a footer within a single pavement block adjacent to at least 2 expansion joints, the entire block of pavement shall be removed and replaced with the same materials and finish of adjacent sidewalk areas.

1. Plan: Footer Placement
   SCALE: NTS

2. Plan View: Footer
   SCALE: 1" = 1'-0"

3. Plan: Specialty Pavers Footer Placement
   SCALE: NTS

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1. Plan: Footer Placement
   SCALE: NTS

2. Plan View: Footer
   SCALE: 1" = 1'-0"

3. Plan: Specialty Pavers Footer Placement
   SCALE: NTS

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1. Plan: Footer Placement
   SCALE: NTS

2. Plan View: Footer
   SCALE: 1" = 1'-0"

3. Plan: Specialty Pavers Footer Placement
   SCALE: NTS

NOTE: The pattern of bricks need to be removed, stored and replaced in the order they were removed. Marking the Specialty Pavers sidewalk with spray paint will NOT be allowed.

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1. Plan: Footer Placement
   SCALE: NTS

2. Plan View: Footer
   SCALE: 1" = 1'-0"

3. Plan: Specialty Pavers Footer Placement
   SCALE: NTS

NOTE: The pattern of bricks need to be removed, stored and replaced in the order they were removed. Marking the Specialty Pavers sidewalk with spray paint will NOT be allowed.
**LYTEPRO LED SMALL FLOODLIGHT 40W LPF2**

The Philips Stonco LytePro LED Small Floodlight allows precision and flexibility in a compact design. The LPF2 features state-of-the-art long-life LED technology and is ideal for landscapes, accenting signage or displays, facades, and many other lighting applications.

**Features**
- LPF2 delivers 3,460 lumens at 40W, with an efficacy of 87 lumens per watt.
- LED and electronics are protected through the use of a high-performance thermal module.
- DLC certified offers excellent savings with low maintenance.
- 5-year limited warranty, see philips.com/warranties for details.
- 50,000 hour rated life (L70) at ambient temperature.
- Fixtures are IP66 rated and suitable for use in environments from -40°C to 40°C.
- Climatic zone compatibility includes up to zone 9.
- Lower return warranty, please consult warranty for more details.
- Designed in dark bronze, 120-277V and 4000K neutral white for quick 3-day shipping.
- Additional made-to-order versions available that are assembled in the USA, consult factory for current lead time.

**Specifications**

### Beam Spec
- Max Candela: 1,974 cd
- 10% beam (horizontal x vertical): 127° x 105°
- 50% beam: NEMA Beam
- Initial Lumens (4K and 5K) *Note: Values shown are based on initial lumens.
- Flood (FL): Typical floodlight performance, up to 350°, and 110° fixture tilting lets installers quickly aim the fixture.
- The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Merje Design and engineering staff following the installation of the lights.

### Dimensions
- Approximate luminaires weight: 3.65 kg (8 lb)
- Feature size: 6.20 sq ft.

**Accessories – Ordering Guide**

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
<th>UPC Code</th>
</tr>
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<tr>
<td>LFW10W2</td>
<td>Bronze Wall Adapter</td>
<td>9624_00</td>
</tr>
<tr>
<td>LFW10W4</td>
<td>White Wall Adapter</td>
<td>9245_00</td>
</tr>
<tr>
<td>LFW10G2</td>
<td>Textured Dark Gray Wall Adapter</td>
<td>9669_00</td>
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**LytePro LED Small Floodlight 40W**

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<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
<th>Master Pack, QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEPF20-1</td>
<td>LytePro F20, 120-277V</td>
<td>x 4  9669_00</td>
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</tbody>
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**Stocked Luminaires – Ordering Guide**

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<thead>
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<th>Catalog #</th>
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<tbody>
<tr>
<td>LFW10DGY12</td>
<td>LPFW10DGY12, 120-277V, 4K</td>
</tr>
<tr>
<td>LFW10BZ10,11</td>
<td>LPFW10BZ10,11, 120-277V, 5K</td>
</tr>
</tbody>
</table>
```

**Notes:**
- Grids are multiples of mounting height and relate values are in feet ingresar.
- Value shown are based on initial lumens.

**LytePro_LPF2 04/14 page 1 of 3**
Assembly and Installation Instructions

Carefully select the location of your sign to be sure that it will be readily visible to those for whom it is intended. Before installing any sign, be sure that the installation does not obstruct traffic or hamper local utilities, landscape, maintenance, snow-plowing, etc...

Perma•Banner

Pole Mount

Step 1

Carefully unpack the frame and panel assembly from the shipping cartons. Lay the unit on the ground (use shipping cartons underneath to avoid damage). The sign should have shipped completely assembled.

Step 2

Remove the sign blade by backing out the set screws. It is recommended to install the extrusion only to the pole, then attach the blade back onto the extrusion once the banding and clamps are tight.

Step 3

Plan carefully. It is important to check your clearances before beginning to install Perma•Banner pole signs. Determine the direction in which the panel needs to be seen and be sure it is mounted high enough to clear vehicles on roadsides and clear raised hands in pedestrian areas.

Step 4

The general idea in mounting these signs is to:

1. Fasten the top stainless steel banding and clamp it to the pole first.
2. Then make sure the sign is level and fasten the bottom banding and tighten with clamps.
3. Thread and tighten the banding and clamps through all the middle slots of the extrusion, making sure the extrusion stays level from top to bottom.

Note: Howard Industries recommends running the banding material through slots in the Perma•Banner and around pole two times making a “Double Band”. Double Banding develops a great deal more radial compression strength than Single Banding.

Wall Mount

Step 1

Remove the sign blade by backing out the set screws. It is recommended to install the extrusion only to the wall, then attach the blade back once the extrusion is tight to the wall.

Step 2

Place the sign extrusion in position, level, locate and mark the holes to the set screw holes. Slide the sign blade into position. Line up the sign blade and around pole two times making a “Double Band”. Double Banding develops a great deal more radial compression strength than Single Banding.

Step 3

Carefully unpack the frame and panel assembly from the shipping cartons. Lay the unit on the ground (use shipping cartons underneath to avoid damage). The sign should have shipped completely assembled.

Double Banding develops a great deal more radial compression strength than Single Banding.

Notes:
1. Fabricator to verify the mounting conditions and provide a drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer of the extrusion or fabrication prior to fabricating.
2. Welding. All welds shall be ground smooth, paint all areas.
3. Hardware. All exposed hardware shall be tamper proof to prevent business.
4. All exposed edges painted to match adjacent face.

All copy shall be proofread by client and legal approval prior to proceeding with fabrication.

SHEET TITLE

PERMA•BANNER POLE MOUNT SYSTEM

Assembly Detail

1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer of the extrusion or fabrication prior to fabricating.

2. Welding. All welds shall be ground smooth, paint all areas.

3. Hardware. All exposed hardware shall be tamper proof to prevent business.

4. All exposed edges painted to match adjacent face.

All copy shall be proofread by client and legal approval prior to proceeding with fabrication.

NOTES:
1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the designer of the extrusion or fabrication prior to fabricating.

2. Welding. All welds shall be ground smooth, paint all areas.

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4. All exposed edges painted to match adjacent face.

All copy shall be proofread by client and legal approval prior to proceeding with fabrication.
**Color Blast 12**
**Color Blast 6**

The original exterior LED wash fixture with intelligent color light

High-performance ColorBlast LED fixtures generate rich, saturated colors and color-changing effects for a range of wall-washing and floodlighting applications. Designed with the needs of lighting designers, architects, and retail window directors in mind, Color Blast can be used in both indoor and outdoor installations.

Color Blast 12 high-intensity LEDs produce superior light output of over 1200 lumens, while Color Blast 6 produces a lower intensity output in a compact, low-profile housing. Both versions offer full pan and tilt rotation, flexible mounting options, two beam angles, and superior control through Philips or third-party DMX controllers.

- **Two beam patterns** — A frosted glass lens (22° beam angle for Color Blast 12, 21° for Color Blast 6) produces a soft-edge beam, while a clear glass lens (10° beam angle) affords extended light projection.

- **Flexible mounting options** — The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.

- **Versatile light positioning** — The locking canopy base offers friction-free rotation of up to 350° and 110° fixture tilting lets installers quickly aim the fixture without special tools.

- **Industry-leading controls** — Color Blast fixtures work seamlessly with the complete line of Philips controllers, including Light System Manager, iMager 3, and Color Dial Pro, as well as third-party controllers.

- **Additional options for controlling and dispersing light** — Designed specifically for the family of Color Blast fixtures by City Theatrical, Inc., accessories include top hats, half top hats, egg crate louver, barndoors, and horizontal and vertical spread lenses.

---

**OUTDOOR RATED**

- Fully sealed for maximum fixture life and IP65 rated for outdoor applications, Color Blast fixtures meet or exceed specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white or black powder-coated finish.

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**PHOTOMETRICS**

Photometric data is based on test results from an independent NSF traceable testing lab. IES data is available at www.philipscolorkinetics.com/support/ies.

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**SPECIFICATIONS**

- **Flexible mounting options** — The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.

- **Versatile light positioning** — The locking canopy base offers friction-free rotation of up to 350° and 110° fixture tilting lets installers quickly aim the fixture without special tools.

- **Additional options for controlling and dispersing light** — Designed specifically for the family of Color Blast fixtures, accessories include top hats, half top hats, egg crate louver, barndoors, and horizontal and vertical spread lenses.

---

**NOTES**

- Lighting of sign types shall be of the appropriate level - to maintain a safe/ legible and comfortable viewing distance.

- Field testing of light fixtures is required - to verify placement/quantity and light levels in line with ANSI recommendations.

- Lighting shall be fixed on the element to be illuminated and not shining into the line of traffic or into the sky.

---

**MATERIALS**

- **Color Blast fixtures** — Rugged, die-cast aluminum housing is available in white or black powder-coated finish.

---

**SERVICES**

- **Fabrication and installation** — Fabrication and installation services are available. Please contact us for more information.

---

**INTERNET ADDRESS**

www.merjedesign.com

**T 484.266.0648**

**West Chester, PA 19380**

**Suite 208**

**T 484.266.0648**

**www.merjedesign.com**

---

**EQUIPMENT & EXPERIENCES**

120 North Church Street
Suite 208
West Chester, PA 19380

**T 484.266.0648**

**www.merjedesign.com**

---

**DATE**

06/30/16

**SHEET NO.**

1

**CLIENT / PROJECT**

LH

**WAYFINDING & SIGNAGE SYSTEM**

**NAME**

Media Borough, PA

**LABEL / PROJECT**

**PLANNING**

Wayfinding and Signage System

**PHOTO**

Phillips Color Blast Changing LED Floodlight

---

**MERJE**

**F.14**
These drawings are meant for design and fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

Due to continuous improvements and innovations, specifications may change without notice. These figures, provided as a guideline, are accurate for this configuration only. Changing the fixture measurements will affect the fixture footprint lengths.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>ColorBlast 6</th>
<th>ColorBlast 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam Angle</td>
<td>10° / 21°</td>
<td>10° / 22°</td>
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</tr>
<tr>
<td>Variations</td>
<td>110º</td>
<td>22º Beam Angle</td>
<td></td>
</tr>
<tr>
<td>RGBW</td>
<td>23º Beam Angle</td>
<td></td>
<td></td>
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<tr>
<td>Power Consumption</td>
<td>550 mA at full output, steady state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Net: 8 lbs (3.65 kg)</td>
<td>Gross: 10 lbs (4.54 kg)</td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>Dia. 4.7 in (119 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lens</td>
<td>Clear glass (10° beam angle)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance (Height x Width x Depth)</td>
<td>8.4 x 6.3 x 2.15 in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Ranges</td>
<td>-13 °F to 122 °F (-25°C to 50°C)</td>
<td></td>
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<tr>
<td>Humidity</td>
<td>0 – 95%, non-condensing</td>
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<tr>
<td>Certification</td>
<td>UL cUL, CE, C-Tick, SAA, CQC</td>
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<td></td>
</tr>
</tbody>
</table>

Controller

For detailed wiring diagrams visit www.philipscolorkinetics.com/support/wiring/ls_prod.html

Typical ColorBlast installation

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Housing Color</th>
<th>Item Number</th>
<th>Philips 12NC</th>
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<tbody>
<tr>
<td>ColorBlast 6</td>
<td>Pre-programmed</td>
<td>White</td>
<td>116-000008-01</td>
<td>910503700590</td>
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<tr>
<td>ColorBlast 12</td>
<td>Pre-programmed</td>
<td>White</td>
<td>116-000025-01</td>
<td>910503700592</td>
</tr>
<tr>
<td>ColorBlast 6</td>
<td>DMX / Ethernet</td>
<td>Black</td>
<td>116-000008-03</td>
<td>910503700594</td>
</tr>
<tr>
<td>ColorBlast 12</td>
<td>DMX / Ethernet</td>
<td>Black</td>
<td>116-000025-03</td>
<td>910503700596</td>
</tr>
<tr>
<td>ColorBlast 6</td>
<td>PDS-150e 24V</td>
<td>Black</td>
<td>109-000017-03</td>
<td>910503700097</td>
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<tr>
<td>ColorBlast 12</td>
<td>PDS-150e 24V</td>
<td>Black</td>
<td>109-000008-01</td>
<td>910503700092</td>
</tr>
</tbody>
</table>

NOTES:

1. Fabricator to verify the mounting conditions and provide a detailed drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Architect/Engineer to proceed with fabrication.
2. Lighting of sign types shall be of the appropriate level to maintain a safe, legible and comfortable viewing distance.
3. Lighting shall be fixed on the element to be illuminated and not shining into the eyes of traffic or into the right-of-way.
4. These figures, provided as a guideline, are accurate for this configuration only. Changing the fixture measurements will affect the fixture footprint lengths.
5. ColorBlast fixtures are part of a complete system which includes: Power / Data Supplies, and Controllers.
ColorBlast offers rich, saturated wall-washing color and color-changing effects, both indoors and outdoors. Both ColorBlast 12 and ColorBlast 6 are low-voltage fixtures, intended for use with the power / data supplies PDS 150s 24V and PDS-60 24V from Philips Color Kinetics.

### Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate ColorBlast fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

#### Installing in Wet or Damp Locations

When installing in wet or damp locations, it is good practice to seal all fixtures and junction boxes with electronics-grade RTV silicone sealant to ensure that moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. You must use suitable outdoor-rated junction boxes when installing in wet or damp locations. Additionally, you must use gauges, dips, and other parts required for installation to comply with all applicable local and national codes.

### Create a Lighting Design Plan and Layout Grid

1. Determine the appropriate location of each power / data supply in relation to the fixtures, and of the fixtures in relation to each other. Refer to the power / data supply’s Installation Instructions or Specification Sheet for guidelines on configuring and positioning the power / data supply in relation to the controller.

2. With the native 60 ft (18.3 m) power / data cable supplied with each fixture, you can connect up to three ColorBlast 12 fixtures to each PDS-150s, or one ColorBlast 12 fixture to each PDS-60. You can connect up to six ColorBlast 6 fixtures to each PDS-150s, or up to two ColorBlast 6 fixtures to each PDS-60. Using 18 AWG, 3-conductor stranded copper wire, you can extend the cable for each individual fixture to a maximum length of 150 ft (45.7 m), as long as the total cable length for each power / data supply does not exceed 400 ft (121.9 m).

3. On an architectural drawing or other drawing that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and cables.

4. Each ColorBlast fixture comes pre-programmed with a unique serial number. As you unpack the fixtures, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.

5. Assign each fixture to a position in the lighting design plan.

6. To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each light fixture’s housing.

### Start the Installation

1. Install all power / data supplies, including any interfaces with controllers. Power / data supplies and external controllers send power and control signals to the fixtures over the single fixture cable.

2. Ensure that the number of free power / data supply power ports is adequate.

3. Verify that all additional supporting equipment (switches, controllers) is in place. Refer to the ColorBlast 6 and ColorBlast 12 Installation Instructions for specific warning and caution instructions.
4. Ensure that all additional parts and tools are available, including:
   - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
   - The included 3/32 in hex key wrench
   - The included junction box gaskets (optional)
   - Unless mounting directly to a wall, ceiling, or other surface, one 4 in (102 mm) round US electrical junction box per fixture, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture’s base. (Refer to the junction box manufacturer’s literature for additional items required for mounting or sealing)
   - Conduct as required
   - Contractor-grade room temperature vulcanizing (RTV) silicone sealant

Install the Fixtures

If installing ColorBlast fixtures indoors, you can mount the fixtures directly to a surface for outdoor installations, and optionally for indoor installations, you install ColorBlast fixtures to a junction box. In wet or damp locations, you must ensure that all junction boxes are suitable for the environment and sealed, if necessary.

Mounting ColorBlast Directly to a Surface

1. Determine the fixture mounting locations as specified in the lighting design plan.
2. Ensure that the fixture flush to the mounting surface.
3. Using the provided 8-32 screws, attach the fixture to the mounting surface.
4. Repeat steps 2 and 3 for each fixture in the installation.

Mounting ColorBlast to a Junction Box

Mount junction boxes in accordance with the lighting design plan. Each fixture is designed for mounting in a 4 in (102 mm) round US electrical junction box, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture’s base.

1. Mount junction boxes as specified in the lighting design plan. Each fixture is designed for mounting in a 4 in (102 mm) round US electrical junction box, rated for your application, with 3.5 in (89 mm) center-to-center screw holes for attaching the fixture’s base.
2. Screw the included grommet assembly into the fixture’s base. If installing in a wet or damp location, seat the O-ring securely against the opening in the fixture base to ensure a watertight seal.
3. Insert the fixture cable through the grommet’s dome nut, loosening the dome nut if necessary, and the fixture’s base. Leave enough cable above the dome nut to allow full fixture rotation.
4. Tighten the dome nut to seal the cable. After 24 hours, tighten the dome nut again to ensure a proper seal.

5. Insert the fixture cable through the provided junction box gasket, and pull the cable through the junction box.
6. If installing in a wet or damp location, and all junction boxes have contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with local outdoor wiring codes.
7. Using the provided 10-24 stainless steel screws, attach the fixture base to the junction box, ensuring that the gasket is compressed evenly.
8. Repeat steps 2 through 7 for each fixture in the installation.

Make Power Connections

Make sure the power is OFF before mounting and connecting ColorBlast fixtures.

1. Pull cables from the fixtures to the power / data supply.
2. Pull each fixture cable through a knockout in the side of the power / data supply.
3. Connect line, common, ground, and data to a provided connector, then snap the connector into the connector terminal inside the power / data supply housing.
4. Using wire nuts, connect the ground wire from each fixture cable to the earth ground on the power / data supply.
5. Repeat steps 2 through 7 for each fixture in the installation.

Environmental & Experiences

Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

Lighting shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance.

Field testing of light fixtures is required - to verify placement/quantity and brightness. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

Lighting of sign types shall be of the appropriate level - to maintain a safe/legible and comfortable viewing distance.

All exposed edges painted to match adjacent face.

Contractor shall verify and be responsible for all field testing of light fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

For the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

Versatile light positioning – The locking canopy base offers friction-free rotation of up to 350°, and 110° fixture tilting lets installers quickly aim the fixture as needed.

Additional options for controlling and dispersing light – Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

Designated light canopies are mounted on the 4 in (102 mm) outer diameter of the fixture box and are designed to fit on the top of the fixture box or the mounting surface. The mounting canopy base allows the fixture to be installed directly to a surface or to a junction box. The final illumination levels and degree of shielding, if any, shall be adjustable and, to the extent needed, shielded to prevent any misdirected light.

Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

All exposed edges painted to match adjacent base.

Click here to view our website.

www.merjedesign.com
Attach Safety Cable (Optional)
Each ColorBlast fixture is designed for use with a safety cable to tether it to a secure anchor point. When dictated by local or state code or advised by a structural engineer, attach a safety cable to the bracket on the back of the fixture. Remove the two screws that attach the cable bracket, loop the safety cable over the cable bracket, and reattach to the fixture. Attach the safety cable to the mounting surface using a method that follows the code or engineer’s requirements.

Address and Configure the Fixtures
Make sure the power is ON before addressing and configuring fixtures.
Each ColorBlast fixture uses three sequential DMX channels or addresses, one for red, one for green, and one for blue. ColorBlast fixtures come factory-addressed to DMX channels 1 (red), 2 (green), and 3 (blue).

For lighting designs where fixtures work in unison, all fixtures can be assigned the same DMX addresses. Changes to the default addresses are not necessary, but if lights were previously readdressed for use in other installations, you must reset them. For light show designs that show different colors on different fixtures, you must assign unique DMX addresses to your fixtures and sort them in a useful order.

- In Ethernet installations, you can address and configure your fixtures using QuickPlay Pro with a computer connected to your lighting installation’s network. QuickPlay Pro can automatically discover all of your fixtures, controllers, and Data Enabler Pro devices for quick configuration.
- In DMX installations, you can address and configure your fixtures using QuickPlay Pro with an RJ45 port or SmartJack Pro. You can manually enter fixture serial numbers, or you can import a spreadsheet listing each fixture’s serial number and starting DMX address.

For complete details on addressing and configuring fixtures, controllers, and power/data supplies with QuickPlay Pro, refer to the Addressing and Configuration Guide, which you can view or download at www.philipscolorkinetics.com/support/addressing.

Aim and Lock the Fixtures
Using the provided 3/32 in hex key wrench, loosen the rotation and tilting set screws. Aim the fixtures by rotating the base and tilting the beam as desired. Tighten the two pairs of set screws to lock the fixture in place.

QuickPlay Pro can automatically discover all of your fixtures, controllers, and Data Enabler Pro devices for quick configuration.

Field testing of light fixtures is required - to verify placement/quantity and configuration of fixtures. Fabricator must obtain approval from the designer or client for placement prior to fabrication.

Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.

Material 316 Stainless Steel
Size 5/16 to 3/16 in (2 to 5 mm) nominal diameter. Minimum break load must be greater than 400 lb (181 kg)
Construction 7 x 7 (9 wire) preferred stranded

Safety cable bracket location on fixture

Safety cable minimum requirements

You can download QuickPlay Pro from www.philipscolorkinetics.com/support/addressing/

You will need the layout grid that you created when you received the serial numbers of the light fixtures in your installation.

Do not look directly into the fixture when aiming and locking.

Copyright © 2009 – 2012 Philips Solid-State Lighting Solutions, Inc. All rights reserved. ColorBlaze, Color, ColorWash, ColorWash +, ColorCathode, ColorSelect, CoolVue, CoolVue LED, CoolWhite, ColorProof, ColorReef, OptiBin, and Powercore are either registered trademarks or trademarks of Philips Solid-State Lighting Solutions, Inc, in the United States and/or other countries. All other product names are trademarks or registered trademarks of their respective owners. Due to continuous improvements and innovations, specifications may change without notice.

Cover Photo: Soundbar, courtesy of Michael DreasDAS-00034-00 R03 04-12
The extrusion is made from high-quality, double-anodized aluminum and designed for flexible or rigid LED strips that are 8–10mm wide. One of the accessories offered for the extrusion are covers that shade and protect LEDs inside the profile. The available types of covers are: covers K, HS (frosted or clear), LIGER (frosted matte) or clear focusing cover S. Covers are made of polycarbonate and additionally, HS covers are certified for excellent resistance to all weather conditions and UV radiation, as well as being flame retardant. The unique characteristic of the Regular extrusion is an aluminum insert that permits manipulation of the angles of the diode’s lighting. We can attain further angles of lighting by using the focusing cover “S” and putting the insert into the extrusion in the proper notch. If these two conditions are utilized, then it’s possible to get the following angles of light: 10° (without insert) and 30°, 60°, 90° (depending on the insert position).

Standard polypropylene end caps and mounting brackets (made of steel with zinc or chrome finish) are used for the extrusion as supplementary accessories. End caps protect the extrusion from dust and other undesirable elements, which can make LED strips dirty and consequently deteriorate the lighting parameters. The extrusion can be mounted to surfaces with the use of double-sided adhesive tape or mounting brackets. The mounting bracket guarantees easy and secure mounting of the extrusion to a desired surface. It can also work as a connector between two extrusions. Installation of the profile is performed using special PDS springs (index 00800). If you would like to mount the extrusion, densely spaced LEDs (minimum 140 LEDs per meter) and frosted HS cover or frosted matte LIGER cover (minimum 120 LED per meter). This LED fixture can also be assembled to be waterproof and has its ingress protection rating (describes the protection against the ingress of solids, dust and water) equal to IP 67.

For mounting and power supply of extrusions, the elements from the mounting system presented on www.KlusDesign.com can be used.

Technical specification
Ingress Protection Rating: IP 20 (standard), IP 67 (optional)
Available lengths: 1 m / 2 m (can be cut to any size)
Material: body – aluminum, cover – polycarbonate (PC), end cap – polypropylene (PP), mounting bracket, spring – steel

**Sample item from the mounting system of profiles**

Applications
The extrusion with LED light source is mostly used as interior lighting, especially to light cabinets, stairs, glass-cases, or as a decoration light for a niche in drywall ceilings. The IP 67 version can be used as outdoor lighting for elevations or architectural elements.

- **Products related to the Extrusion**
- cover type K/VA-BIS frosted (1547/17071)
- cover type HS frosted (1336/17077)
- cover type S clear (13370)
- mounting bracket zinc (10072)
- with hole (00510)
- with hole (00511)
- chrome-matt. (1345)
- and cap without hole (00510)
- frosted matte (17031)

Media Borough, PA
Wayfinding and Signage System

**DATA SHEET**

<table>
<thead>
<tr>
<th>REGULAR LED extrusion – article number B469+43</th>
</tr>
</thead>
</table>

KLUS® Regular LED Extrusion

**F.19**
These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication.

All copy shall be proofread by client and legal requirements checked by legal department.

| SHEET NO. | 06/30/16 |

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**SPECIFICATIONS**

- Flexible mounting options – The versatile fixture canopy base can be mounted to a junction box or directly to a wall, ceiling, or floor. A liquid-tight cable fitting seals the canopy opening for use in damp or wet environments.
- Versatile light positioning – The locking canopy base offers friction-free rotation of up to 240° and 110° fixture tilting into installation quickly uses the fixture without special tools.
- Additional options for controlling and dispersing light – Designed specifically for the family of ColorBlast fixtures, accessories include top hats, half-top hats, egg crate baffles, benders, and horizontal and vertical spread lenses.

**NOTES:**

- Lighting of sign types shall be of the appropriate level – to maintain a safe, legible and comfortable viewing distance.
- Field testing of light fixtures is required – to verify placement/quantity and light luminosity. Lighting shall be uniform without glare and hotspots. Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.
- The ground-mounted light fixtures proposed to illuminate the gateway signs shall be adjustable and, to the extent needed, shielded to prevent any misdirected light. The final illumination levels and degree of shielding, if any, shall be subject to the review and approval of Borough planning and engineering staff following the installation of the lights.

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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt / M, IP 65
  - **WP-K-27-1210**
    - 2700K
    - 4.8 W/M, 1.5 W/ft
    - 300 L/M, 100 L/ft
    - 60 LEDs/M, 18 LEDs/ft
    - 300 L/M, 100 L/ft
    - 90+ CRI
    - Epistar
    - 14°
    - 12V

- **WP-K-30-1210**
  - 3000K
  - 4.8 W/M, 1.5 W/ft
  - 320 L/M, 100 L/ft
  - 60 LEDs/M, 18 LEDs/ft
  - 320 L/M, 100 L/ft
  - 90+ CRI
  - Epistar
  - 14°
  - 12V

- **WP-K-35-1210**
  - 3500K
  - 4.8 W/M, 1.5 W/ft
  - 345 L/M, 105 L/ft
  - 60 LEDs/M, 18 LEDs/ft
  - 345 L/M, 105 L/ft
  - 90+ CRI
  - Epistar
  - 14°
  - 12V

- **WP-K-40-1210**
  - 4000K
  - 4.8 W/M, 1.5 W/ft
  - 370 L/M, 125 L/ft
  - 60 LEDs/M, 18 LEDs/ft
  - 370 L/M, 125 L/ft
  - 90+ CRI
  - Epistar
  - 14°
  - 12V

Water and dust resistant – IP 65

Protects against:
- Rain and humidity
- Water splash
- Dust and dirt
- Water jets
- Particles

Wire options:
- 36"-72" wire leads (20 gauge jacketed wire)
  - A. Soldered leads
  - B. Female end
  - C. Male end
  - D. No connector

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**ENVIRONMENTS & EXPERIENCES**

1. Fabrikant to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

**NOTES:**

1. Fabrication to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
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**FLEXIBLE LED STRIP**

- **WP-K-27-1210**
  - 2700K
  - 4.8 W/M, 1.5 W/ft
  - 300 L/M, 100 L/ft
  - 60 LEDs/M, 18 LEDs/ft
  - 300 L/M, 100 L/ft
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  - Epistar
  - 14°
  - 12V

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  - 4.8 W/M, 1.5 W/ft
  - 320 L/M, 100 L/ft
  - 60 LEDs/M, 18 LEDs/ft
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  - 60 LEDs/M, 18 LEDs/ft
  - 370 L/M, 125 L/ft
  - 90+ CRI
  - Epistar
  - 14°
  - 12V

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**EQUIPMENT & SUPPLIES**

- **Klus Regal LED Extrusion**
- **Lighting of sign types shall be of the appropriate level – to maintain a safe, legible and comfortable viewing distance.**
- **Field testing of light fixtures is required – to verify placement/quantity and light luminosity.**
- **Lighting shall be uniform without glare and hotspots.**
- **Lighting shall be fixed on the element to be illuminated and not shining into the flow of traffic or into the night sky.**

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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt/M, IP 65

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**NOTES:**

1. Fabrication to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.

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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt/M, IP 65

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**NOTES:**

1. Fabrication to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt/M, IP 65

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**NOTES:**

1. Fabrication to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt/M, IP 65

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**PRODUCTS**

- **Flexible LED Strip**
  - 4.8 Watt/M, IP 65
PART 1 - GENERAL

1. Description
   A. Project Information
      1. Project Location: Media Borough, PA
      2. Owner: The Borough of Media
      3. Administrator: Karen Trussig-Lux
      4. Design Team: MERJE - West Chester, PA
   B. Related Documents
      1. Drawings and general provisions of the Contract, including General and
         Supplementary Conditions and Division 01 Specification Sections, apply
         to this Section.
   C. Project Summary
      1. Project consists of Gateway signs, Vehicular post and panel signs, Parking
         signs, Identification signs and Informational kiosks.
      2. General sign components consist of footings, custom fabricated poles,
         surface painted sign panels, “High Intensity Grade” reflective vinyl copy/
         arrows and graphic artwork.
      3. All exposed surfaces shall receive a graffiti protectant clear coating.
      4. Installations shall require manual and machine digging/drilling into con-
         crete or brick paver sidewalks as well as soil. Where unforeseen condi-
         tions present themselves, the fabricator will be responsible for engineering
         spread footers, meeting the same requirements as outlined in the design
         intent drawings at no additional cost to the owner.
      5. On-going coordination and sequencing will be required with current
         streetscape programs based on construction and installation schedules. In
         order to minimize impacts to existing utilities, the fabricator is responsible
         for contacting the One-Call system prior to installation and shall identify
         this process within a critical path project schedule chart.
      6. Representatives from the Owner and Design Team will be available to
         review locations where a conflict presents itself. Custom mounting meth-
         ods may be required for locations that interfere with underground utilities.
      7. Breakaway poles are required at locations along State and City roads.
         The final design and certification of these poles shall be the responsibility
         of the Fabricator. Approval of these designs is required by the Design Team
         and Owner.
   D. Allowances
      1. Allowances for signage are specified in Section 01 21 00 “Allowances”
   E. Contract
      1. Project will be constructed under a general construction contract.
      2. General sign components consist of footings, custom fabricated poles,
         surface painted sign panels, “High Intensity Grade” reflective vinyl copy/
         arrows and graphic artwork.
      3. All exposed surfaces shall receive a graffiti protectant clear coating.
      4. Installations shall require manual and machine digging/drilling into con-
         crete or brick paver sidewalks as well as soil. Where unforeseen condi-
         tions present themselves, the fabricator will be responsible for engineering
         spread footers, meeting the same requirements as outlined in the design
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         review locations where a conflict presents itself. Custom mounting meth-
         ods may be required for locations that interfere with underground utilities.
      7. Breakaway poles are required at locations along State and City roads.
         The final design and certification of these poles shall be the responsibility
         of the Fabricator. Approval of these designs is required by the Design Team
         and Owner.
   F. Reference Standards
      1. AA: Aluminum Association, Washington, DC.
      2. AAMA: American Architectural Manufacturer’s Association
      3. ACI: American Concrete Institute
      4. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation
         Barriers Compliance Board’s “Americans with Disabilities Act (ADA)
         Accessibility Guidelines for Buildings and Facilities; Architectural Barriers
         Act (ABA) Accessibility Guidelines.”
      6. ASTM: American Society for Testing and Materials, Philadelphia, PA, as
         published in “Compilation of ASTM Standards in Building Codes.”
      7. AWS: American Welding Society, as published in AWS D1.1 “Structural
         Welding Code, Steel,” and AWS D1.2 “Structural Welding Code,
         Aluminum.”
      9. NAAMM: National Association of Architectural Metal Manufacturers, Glen
         Ellyn, IL, as published in “Metal Finishes Manual.”
      10. NFPA: National Fire Protection Association
      12. UL: Underwriters Laboratories, Inc., Northbrook, IL

G. Definitions
   1. Fabricator: Term used for agent responsible for fabrication, installation,
      management and coordination of executing work within the documents.
   2. Surface: Any horizontal or vertical plane capable of receiving construction
      activities or finishes, such as walls, pavements, and sign faces.
   3. Substrate: A substance or layer that underlies something, or on which
      some process occurs.
   4. V.I.F.: Verify in Field
   5. T.B.D.: To Be Determined
   6. A.F.F.: Above Finished Floor
   7. C.L.: Center Line
   8. O.C.: On Center
   9. O.A.D.: Overall Dimension

2. Scope of Work
   A. Included Work
      1. Provision of labor, materials, and equipment necessary to complete the
         work of this section, which shall include but not be limited to the following
         Sign Types:
   B. Coordination / Templates
      1. Furnish templates for placement of sign-anchorage devices embedded in
         permanent construction by other installers.
      2. Furnish templates for placement of electrical service embedded in perma-
         nent construction by other installers.
      3. Furnish templates for field verification and placement of dimensional let-
         tering prior to installation by Fabricator.

Action Submittals
   A. General
      1. Fabricator shall schedule shop drawings, message layouts, product data,
         and sample submittals for delivery as agreed in the Pre-Construction
         Meeting. The Owner may hold shop drawings, product data, and samples
         in cases where a partial submittal cannot be reviewed until associated
         items have been received.
   B. Revisions and Resubmittals
      1. Fabricator should allow for several rounds of revisions and resubmittals
         to all submittals including shop drawings, message layouts and material
         samples. Project schedule shall allow appropriate time for this process.
   C. Shop Drawings
      1. Shop Drawings must be provided by the Fabricator to the Owner
         and Designer for approval prior to fabrication.
2. Drawings should include all relevant plans, elevations, sections, and details of fabrication and installation.
3. Drawings shall indicate all materials, shapes, extrusion-types, dimensions, finishes, anchorages, fastening, and methods of connection.
4. Drawings shall indicate proper font style, letter spacing and dimensions of character heights.
5. Drawings shall be drafted to an architectural scale clearly indicated on the drawing.

D. Samples
1. Submit color and material samples showing the full range of colors, textures, and patterns.
2. Mount, display or package samples in a manner as to facilitate review of qualities indicated.
3. Prepare samples to match designers sample where so indicated. Attach label on an unexposed side that includes the following:
   a. Generic description of sample
   b. Product name or name of Product Manufacturer
   c. Sample Source
4. Samples for Verification
   a. Examples of all graphic image process, including materials, methods, colors, finishes for maps, imagery, numbers and other graphic devices.
   b. Three sets of all color samples, including paint and vinyl samples on thin aluminum plates (approx. 3” x 6”).
   c. Two sets of material samples
   d. Sample fasteners, hardware and mounting hardware sufficient to obtain clear ideas of how signs are fabricated, made changeable and installed.
5. Submit full scale, non-returnable workmanship samples of the following Sign Types:
   a. Sign Type VDIR.2 - Sign Type Description
      Not to be job used. Freight Delivery to Designer for approval.
   b. Sign Type PED.1 - Sign Type Description
      Not to be job used. Freight Delivery to Designer for approval.
   c. Sign Type PAR.1 - Sign Type Description
      Not to be job used. Freight Delivery to Designer for approval.
   a. Fabricator shall submit scale elevations of each sign location for approval of message, typographic spacing, line breaks, alignments, and graphic layout, using same designations as Design Intent Drawings for Owner and Designer approval.
   b. Scale elevations shall include: graphic representation of all sign components (ex. Sign Panel, Header Panel, Mounting Bracket, etc.), project colors, and all copy, graphic icons, and symbols.
7. Typefaces
   a. Submit full sample of each typeface specified, at min. 5/8” cap height on 11” x 17” laser prints, for approval prior to message layout preparation and sign fabrication.
   b. Sample(s) shall include uppercase, lowercase, numerals, and punctuation, as well as samples of specified letter spacing and word spacing.
8. Artwork
   a. Submit artwork of all symbols and logos to be used, at specified heights in design intent drawings on 11” x 17” laser prints, for approval prior to message layout preparation and sign fabrication.
9. Requests for Information (RFIs)
   1. Fabricator shall allow four (10) business days for response to each RFI from the date of receipt.
   2. Fabricator shall not submit more than two (2) RFIs per business day.
   3. Fabricator shall maintain a tabular log of RFIs and submit RFI log at progress meetings.

F. Approvals
1. Fabrication shall not commence prior to field verification of all measurements by Fabricator and approval of shop drawings (and/or other relevant submittals) by the Owner.
2. If Fabricator procures materials or products prior to approval of shop drawings and approval of other relevant submittals, they do so at their own risk.
3. Installation shall not commence prior to Owner verification of sign locations.
4. Owner’s submittal review shall be for general conformance with the requirements of the Contract only; any deviations not clearly indicated by Fabricator will not be reviewed.
5. Submittal review by Owner shall not serve to relieve Fabricator of responsibility for meeting obligations and requirements of the Contract and Documents.
6. The owner shall reserve the right to reject any shop drawings, samples, or other submittals, as well as any finished product or installation, that cannot meet the standard of quality established.
7. Any such decision will be considered final and not subject to recourse.

5. Informational Submittals
A. Fabricator Qualifications
   1. Fabricator shall provide evidence that they regularly and presently manufacture signs similar to those specified in this documentation as one of their principal products.
   2. Fabricator shall employ skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in-service performance of not less than five (5) years.

6. Closeout Submittals
A. Maintenance Data
   1. For signs to include in maintenance manuals.
   2. For ongoing readers.
B. As-Built Drawings
   1. For additional drawings.

7. Quality Assurance
A. Engineering
   1. The Drawings in this document represent design intent only.
   2. Fabricator shall be responsible for the proper engineering of all items to withstand the conditions and abuses of their environment.
   3. Fabricator shall inform the Owner of any product or material deficiencies or incompatibilities that will prevent the signs from withstanding the conditions and abuses of their environment. Signs must be securely mounted.
   4. Fabricator is responsible for suggesting alternate fabrication or installation methods, if required to prevent theft, vandalism, and/or to improve structural stability.
   5. All items shall be engineered to accommodate all load requirements as determined by Fabricator. Load requirements shall include, but shall not be limited to, shear load and design load as required. Signs shall be engineered and installed so that final mounting weight shall not affect overall stability of mounted sign or surrounding conditions.
B. Regulatory Compliance
   1. All installation work by Fabricator shall comply with applicable municipal, state and federal codes, sign ordinances, ICC/ANSI A117.1, DOH 2010 Standards for Accessible Design (ADA) guidelines and MPA 101 fire/life safety signing.
   2. All OSHA safety requirements will be implemented during fabrication and installation as needed or required to comply with local Owner or City safe-
These drawings are meant for DESIGN and not for construction. Contractor must verify all dimensions and conditions shown on this drawing. Shop drawings and variations from the dimensions and conditions shown on this drawing must be approved prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.

A. General
1. All components shall be fabricated accurately. Hairline joints shall be visible in the finished work.
2. Exposed metal edges shall be eared to the specified radius dimensions never indicated on Drawings.

B. Design
1. Aluminum Plate: Aluminum plate for all signs shall conform to ASTM-B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, to the dimensions and thickness indicated on drawings.

C. Protection and Storage
1. Metal Shapes, Pre-finished Sheetings, Components and Extrusions: a. Not less than ten (10) years.

D. Welding
1. All welding work shall comply with AWS D1 and Aluminum Association standards for the specified type of metal.
2. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches part that of adjacent surface.
3. All exposed welds shall be continuous; spot or tack welded joints shall not be visible in the finished work.

E. Lamination
1. Provide laminates of adequate size, thickness, and construction to properly pre-finish aluminum to acquire sign faces.
2. Allow for thermal movements resulting from the following maximum change in ambient and surface temperatures by preventing buckling, delamination, opening of joints, overstressing of components, failure of connections, and other detrimental effects.

F. Hardware and Fasteners
1. All hardware shall be of adequate size, thickness, and construction to properly secure.
2. Except where indicated, exposed fasteners shall not be visible in finished work; where specified, exposed hardware shall be painted to match adjacent surfaces.
3. Submit fastener product data for material and finish approval.

G. Dissimilar Materials
1. Metals, including metal hardware, shall be insulated from contact with dissimilar metals by means of a protective coating or gasketing, or by other means of separation as required to prevent galvanic corrosion.

H. Structural Performance
1. Provide signs capable of withstanding the effects of gravity loads and other stresses, as indicated.
2. Fabricator to secure approved submittal with structural design confirmation prior to fabrication and/or installation.
3. Suspended sign shall be mounted in such manner as to not have any visible movement from windloads.

9. Warranty
A. Fabricator shall warrant all products above and beyond, if necessary, manufacturer supported warranties for product performance, as follows:
1. Metal Shapes, Pre-finished Sheetings, Components and Extrusions:
   a. Not less than ten (10) years.
2. Paint Finishes:
   a. Not less than ten (10) years.
3. Protective Clear Coating:
   a. Not less than ten (10) years.
4. Mounting Hardware:
   a. Not less than ten (10) years.
5. Lamination:
   a. Not less than ten (10) years.
6. Acrylic Shapes & Sheets:
   a. Not less than ten (10) years.
7. Vinyl Graphics & Letters:
   a. Not less than ten (10) years.
8. Screen Printed Graphics and Letters:
   a. Not less than ten (10) years.
9. General:
   a. All products not specifically indicated above will have warranty of not less than five (5) years.
B. Fabricator shall guarantee all work under this Contract for a period of not less than five (5) years from the date of Substantial Completion, during which time the Contractor shall repair or replace work in this Contract which has failed as a result of defects in materials, workmanship, or installation. Submit written warranty signed by Contractor and Installer to Owner for documentation. Failures include, but are not limited to the following:
1. Deterioration of metal and finishes beyond normal weathering.
3. Deterioration of surface applied letters, graphics, or messages.
4. Signs not remaining true and plum on their supports, whether mechanical or otherwise.
5. Fading of colors, printed graphics and letters or finishes when matched against a sample of the original color and material.

Part 2 - Products
1. Materials
   A. Aluminum
   1. Aluminum Plate: Aluminum plate for all signs shall conform to ASTM-B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, to the dimensions and thickness indicated on drawings.
   2. Aluminum shall be finished as indicated on Drawings. Finish shall be uniformly applied without waviness, "oil-canning," or other imperfections.
   3. Exposed aluminum shall exhibit no markings, scratches, or blemishes.
   4. Clear anodized finish: Manufacturer's standard Class 1 clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) mechanical finish, complying with AAMA 611 and AAMA 2605.
These drawings are meant for design purposes and are NOT for construction. Contractor shall verify and be responsible for all design loads and connection details. Contractor shall be familiar with the site and conditions of the job. Contractor shall be responsible for all site work, design loads and connection details. These drawings shall be approved prior to proceeding with fabrication. This office must be notified of any changes to the site or any additional site requirements. Contractor shall verify and be responsible for all design loads and connection details. Contractor shall be familiar with the site and conditions of the job.

PERFORMANCE SPECIFICATIONS

1. Mechanical squeeze roll applicator – refer to 3M Information Folder (IF) 1.4 for more details.

2. Hand squeeze roll applicator – refer to 3M IF 1.6 for more details.

c. Splices: Series 3930 sheeting must be butt spliced when more than one piece of sheeting is used on one piece of substrate. The sheeting pieces should not touch each other. This is to prevent buckling as the sheet expands in extreme temperature and humidity exposure.

d. For traffic sign use, substrates found to be most reliable and durable are properly prepared aluminum sheets and extrusions. Plastic substrates are NOT acceptable.

e. High intensity prismatic sheeting may be processed into traffic signs by any of the imaging methods described below:

1. Screen Processing: Series 3930 sheeting may be screen processed into traffic signs before or after mounting on a sign substrate, using 3M Process Colors Series 880I or Series 880N. Refer to 3M IF 1.8 for more details.

2. Thermal Transfer Printing: Series 3930 sheeting may be imaged with 3M Thermal Transfer Ribbon Series TTR200 in conjunction with the Matan SpringG3 or Matan Spool4 thermal transfer printers. Additionally, series 3930 sheeting may be imaged by the Durst RHO 161 TS printer, by Sherine Industries: (604) 513-1877. All applications utilizing the above printers must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate.

3. 3M ElectroCut Film Series 1170 may be used to provide transparent colored background copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Product Bulletin 1170 for fabrication procedures.

4. Vinyl Graphic Films: ScotchVail Vinyl Series 7720 and Series 7725 may be used to provide copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Scotchvail product literature for more information.

f. All of the above methods utilizing series 3930 reflective sheeting must be warranted for a period of eight (8) years and shall not excessively fade, discolor, crack, craze, peel, blister or lose reflectivity such that the signs become visually unsuitable for their intended purpose.

2. Use 3M Scotchvail brand graphic film. Material shall consist of a tough, flexible, and pigmented vinyl film and shall be processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

3. Use 3M Scotchbrite brand reflective graphic film. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements. Material shall be capable to being processed with compatible screen printing inks and clear coatings as recommended by
the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

2. FINISHES
   A. Paints
   1. Aluminum Components: Etched and filled graphics, surface screened copy, and surface screened arrows for all aluminum components shall be acrylic polyurethane, matte enamel finish, as manufactured by Matthews Paint or approved equal. Reference Design Intent drawings for specified colors.
   2. Acrylic Components: Paint finish for all acrylic components shall be acrylic polyurethane, matte enamel finish, as manufactured by Matthews Paint or approved equal. Reference Design Intent drawings for specified colors.
   3. Sign components shall be pre-drilled in proper locations prior to any pre-treatment process.
   4. Pre-treatment: All surfaces shall be cleaned, primed, and pre-treated as required prior to finishing.
   5. Masking and spraying. All masking shall be executed with pre-letter spaced vinyl legends, assembled on sign panel or wall prior to spraying. No hand-cut masks shall be used.
   7. Finished work shall be crisp, accurate, visibly free from flow lines, streaks, bleeding, blisters or other imperfections in the dry-film state, without overspray, or rounded corners.
   8. Screened Messages: Execute all silkscreen printing in such a manner that all edges and corners of finished letterforms are true and clean. Letterforms, color areas, graphics, or lines with rounded corners, edge buildup or bleeding, saw-toothing, etc. will not be accepted.

B. Metals
   1. Aluminum Components: Finish for all aluminum components shall be #220 Inline Brush with eased corners and brushed edges
   2. Sign components shall be pre-drilled in proper locations prior to any pre-treatment process.
   3. Pretreatment: All surfaces shall be cleaned, primed, and pre-treated as required prior to finishing.
   5. Finished work shall be crisp, accurate, visibly free from flow lines, streaks, bleeding, blisters or other imperfections.

C. Acrylic
   1. All background colors shall be spray painted with Matthews Acrylic Polyurethane. Finish with prime coating under a minimum color coat of 1.5 mil dry film thickness.
   2. Translucent or transparent acrylic specified for the purpose of transmitting light should be free from internal flaws or variations in color.

3. General
   A. Custom High Pressure Laminate Graphic Panels
   1. Description: Custom High Pressure Laminate (CHPL) material composed of required layers of phenolic resin impregnated brown kraft filler paper to produce specified thicknesses, surfaced by a layers of melamine overlay, graphics imaged on saturation grade paper with UV resistant pigmented based process color inks, and with an optically clear UV overlay that will resist no less than 99% of all sunlight and UV rays, as well as provides a graffiti resistant surface that allows for removal with standard cleaners.
   2. Process: For purposes of this specification, layers of material described A.1 are to be assembled, and heat / pressure consolidated at approximately 1200 PSI at temperatures exceeding 275° Fahrenheit at manufacturer’s prescribed time frames. All manufacturing processes of printing, pressing, finishing and crating shall be accomplished within a single stand alone manufacturing facility to ensure consistent quality control and providing standard product delivery times of three weeks.
   3. Artwork: The graphic and material images are to be supplied by and under the supervision of the Designer or Owner. To include mechanicals, text, photographs, transparencies, film and other graphic source materials incorporated into digital graphic production artwork files in manufacturer’s required file formats. All graphics must be assembled by computer designers familiar with and experienced in the process of digital printing and submitting production artwork files that meet the artwork requirements of the manufacturer.
   4. Acceptable Manufacturer: iZone Imaging, 2526 Charter Oak Dr., Suite 100, Temple, TX 76502. Tel: 888.464.9663, Email: info@izoneimaging.com, Web: http://www.izoneimaging.com.
   5. Dye-Sublimated Printed Graphic Panels
      1. Process: Product substrates selected shall be able to withstand the 350 degree F (177 degree C) temperature of the powder coating oven. This includes and is not limited to aluminum, steel, glass, MDF, ceramic and high temperature plastics.
      2. Characteristics: Coating shall be super durable polyurethane powder coated finish that is resistant to abrasion, humidity and corrosion. It shall be anti-graffiti, scratch resistant and non-combustible. The coating process shall be applicable for both interior and exterior applications. Coating shall withstand high traffic and extreme weather.
      3. Capability: Embed process capability shall allow parts from the size of a button to 24 inches (7315 mm) in length. Includes dimensional objects, flat and embossed profiles, and folded panels.
      4. Warranty: Manufacturer’s Warranty: Provide manufacturer’s standard warranty for up to 10 years depending on location, substrate, environment and amount of direct sunlight.
      5. Acceptable Manufacturer: Direct Embed Coating Systems; 6 Morris St., Paterson, NJ 07501. Tel: 954.825.0410, Email: Info@DirectEmbedcoating.com, Web: http://www.directembedcoating.com.

Part 3 - Execution
1. Examination
   A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of signage work.
   B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between signs and support surfaces unless otherwise indicated.
   C. Verify that anchor inserts are correctly sized and located to accommodate signs.
   D. Verify that electrical service is correctly sized and located to accommodate signs.
   E. Proceed with installation only after unsatisfactory conditions have been corrected.

2. Installation
   A. General
      1. Install signs using mounting methods indicated and according to manufacturer’s written instructions.
      2. Install signs level, plumb, true to line, and at locations and heights indicated.
      3. Verify that electrical service is correctly sized and located to accommodate signs.
      4. Install signs so they do not protrude or obstruct according to the accessibility standard.
      5. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
      6. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a...
These drawings are meant for DESIGN and construction. These drawings present INTENT ONLY and are not for construction.

All copy shall be proofread by client and legal requirements checked by legal department.

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and stripable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

End of Section 10 14

00NAAMM: National Association of Architectural Metal Manufacturers, Glen Ellyn, Ill., as published in “Metal Finishes Manual.”

1. NFPA: National Fire Protection Association
3. UL: Underwriters Laboratories, Inc., Northbrook, IL

D. Definitions

1. Fabricator: Term used for agent responsible for fabrication, installation, management and coordination of executing work within the documents.
2. Surface: Any horizontal or vertical plane capable of receiving construction activities or finishes, such as walls, pavements, and sign faces.
3. Substrate: A substance or layer that underlies something, or on which some process occurs.
4. V.F.: Verify in Field
5. T.B.D.: To Be Determined
6. A.F.: Above Finished Floor
7. C.L.: Center Line
8. O.C.: On Center
9. O.A.D.: Overall Dimension

4. Scope of Work

A. Included Work

1. Provision of labor, materials, and equipment necessary to complete the work of this section, which shall include but not be limited to the following:

3. Through Fasteners: Drill holes in substrate using predrilled holes in sign and finish onto same side of glass to conceal back of sign.

a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.

b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.

3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.

4. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.

5. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure with slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.

6. Double-Sided Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape straps symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.

7. Shim-Plate Mounting: Provide 1/8-inch-(3-mm-) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach signs to plate using counter-sunk expansion anchors method specified above.


E. Signs Mounted on Glass: Provide dove gray opaque sheet matching sign material and finish onto same side of glass to conceal back of sign.

4. Adjusting and Cleaning

3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template.
2. Attention is directed to Fabricators responsibilities for existing conditions survey, existing sign removal, existing interfering item removal, surface restoration, phased installation, submittals and shop drawings, engineering, and coordination with other trades as specified.

5. Coordination
A. Pre-Construction Meeting
1. A pre-construction meeting will be held at a time and place designated by the Owner and Administrator for the purpose of clarification of the project and for the purpose of identifying responsibilities of the Owner, Administrator and the Fabricators personnel as well as explanation of administrative procedures.

B. Coordination / Templates
1. Furnish templates for placement of sign-anchorages devices embedded in permanent construction by other installers.
2. Furnish templates for placement of electrical service embedded in permanent construction by other installers.
3. Furnish templates for field verification and placement of dimensional lettering prior to installation by Fabricator.

6. Action Submittals
A. General
1. Fabricator shall schedule shop drawings, message layouts, product data, and sample submittals for delivery as agreed in the Pre-Construction Meeting. The Owner may hold shop drawings, product data, and samples in cases where a partial submittal cannot be reviewed until associated items have been received.

B. Revisions and Resubmittals
1. Fabricator should allow for several rounds of revisions and resubmittals to all submittals including shop drawings, message layouts and material samples. Project schedule shall allow appropriate time for this process.

C. Shop Drawings
1. Shop Drawings must be provided by the Fabricator to the Owner and Designer for approval prior to fabrication.
2. Drawings should include all relevant plans, elevations, sections, and details of fabrication and installation.
3. Drawings shall indicate all materials, shapes, extrusion-types, dimensions, finishes, anchorage, fastening, and methods of connection.

SIGNAGE TECHNICAL SPECIFICATIONS
Section 10 14 00