DESIGN CRITERIA:

Location:

Borough of Media, PA

Design Codes:

2018 NCSBC

PENNDOT Design Standards

Wind Design Data:

Ultimate Design Wind Speed, Vult = 115 mph

Nominal Design Wind Speed, Vasd = 89.1 mph

Risk Category = II

Wind Exposure “C”

GENERAL NOTES:

1. All work to be done within existing government owned rights of way.
2. Concrete Compressive Strength, f'c=4000 PSI., MIN. Special inspection not required.
3. Bolt Steel - Stainless steel type 316 - All hardware to be tamper proof.
4. All Steel Poles to be made from ASTM A53 Grade B Steel (Fy= 35 KSI)
5. All Aluminum members to have alloy type 6061-T6. Weld filler to be 4043.
6. Sign Cabinets shall be fabricated in the shop of an approved fabricator.
7. Allowable soil bearing pressures based on 2018 NCSBC Class 4 material or better. Special inspection not required. (If soft or sandy soil, collapsing or unstable soil, organic materials or groundwater are encountered, immediately contact the engineer of record for additional foundation requirements.)
8. Calculations of sign area based on worst case load to 1 of 2 poles.
9. Anchor bolts ASTM F1554 Grade 36, U.N.O.
10. Reinforcing steel ASTM A615, Grade 60.
11. Provide 3" min. clear concrete cover for all steel embedded in concrete footing unless noted otherwise.
12. Aluminum welding to conform to AWS D1.2 / D1.2H: 2008 Structural welding code: Aluminum.
13. Sign Installer shall field verify that the site conditions are consistent with these drawings prior to sign installation. Notify engineer of record immediately if site conditions vary from these drawings.
14. Provide protective coating for all steel to be in contact with earth.
15. Provide isolation of dissimilar materials including a protective coating for all aluminum to be in contact with concrete and for all aluminum to be in contact with steel.
16. Provide slope away from base of pole and anchorage.
17. TRANSPO Break-Safe and Pole-Safe support systems shall be installed per manufacturers specifications.
18. Capacities for TRANSPO Break-Safe and Pole-Safe support systems per manufacturer supplied technical data.
19. The project fabricator is responsible for providing shop drawings prior to fabrication for review and approval by the Design Team and Project Engineer. If the fabricator's shop drawings propose means or methods that deviate from the materials, products, processes, construction details or installation methods identified in these design intent drawings, the fabricator shall have their Shop Drawing signed and sealed by a professional engineer licensed in the Commonwealth of Pennsylvania. Use of these design intent drawings as a basis for design for the fabricator Shop Drawings does not relinquish the fabricator from constructing the signs to the level of quality and structural integrity necessary for the projects location.

Media Borough

Wayfinding & Signage Program

DESIGN INTENT DRAWINGS

June 30, 2016

Revision - January 15th, 2021

Project Location: Media, PA

Project #: 9418.07

Contact Info:

Kevin M. Matson, P.E. - Borough Engineer

kmatson@lighthouse-engineers.com

610-513-7220

merje

ENVIRONMENTS & EXPERIENCES

120 North Church Street

Suite 208

West Chester, PA 19380

T 484.266.0648

www.merjedesign.com

MERJE design is limited to the new signs, new pole supports, new foundations and sign attachments. All other items are excluded, including, but not limited to, sign placement, electrical, architectural, mechanical and engineering checks of existing structures. The performance of manufactured items, including the breakaway system and tie straps, are based on manufacturer supplied product data.

Table of Contents

TYPEFACE FOR: VEHICULAR GUIDE SIGNS

Clearview Highway

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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.

Downtown
acceptable

Downtown
NOT acceptable

D o w n t o w n
NOT acceptable

123A
acceptable

123A
NOT acceptable

1 2 3 A
NOT acceptable

SPECIFICATIONS

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

This apostrophe is INCORRECT.

PARK'S

NOTES

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

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Typography Specifications

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

A.1

TYPEFACE FOR: GATEWAYS, PARKING & PEDESTRIAN SIGNAGE

Scala Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
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.

Downtown
acceptable

Downtown
NOT acceptable

D o w n t o w n
NOT acceptable

123A
acceptable

123A
NOT acceptable

1 2 3 A
NOT acceptable

SPECIFICATIONS

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.

NOTES

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

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SHEET TITLE
Typography Specifications

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
A.2

LETTER-SPACING

Inconsistencies in Letter Spacing

TYPEFACE 1

Media

TYPEFACE 2

Media

Corrected Letter Spacing

TYPEFACE 1

Media

TYPEFACE 2

Media

IMPORTANT: Individual spacing of each letter needs to be evaluated. See Examples Above.
Kern all Copy 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.

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")

SPECIFICATIONS

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.

NOTES

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West Chester, PA 19380
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SHEET TITLE
Typography Specifications

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
A.3

DISTRICTS

State St District

GOVERNMENT

* County Courthouse

Delaware Co Courthouse

Municipal Center

PARKS AND RECREATION

Cherry St Fields

Glen Providence Park

Houtman Park

SERVICES

Rose Tree Dist School Offices

Youth Center

TRANSPORTATION

Media Station

ARTS & CULTURE

Hedgerow Theatre

Media Theatre

UP-Media Free Library

EDUCATION

PA Institute of Tech

PUBLIC PARKING

Church St Lot

Front St Lot

Gayley St Lot

Olive St Lot

Orange St Lot

State St Parking

Public Parking

Baltimore Ave Garage

Garage Upper Levels

Garage Lower Level

* RES.1 LAYOUT

SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 4 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

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

NOTES

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

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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Vehicular Terminologies 4" High Copy

DATE 06/30/16

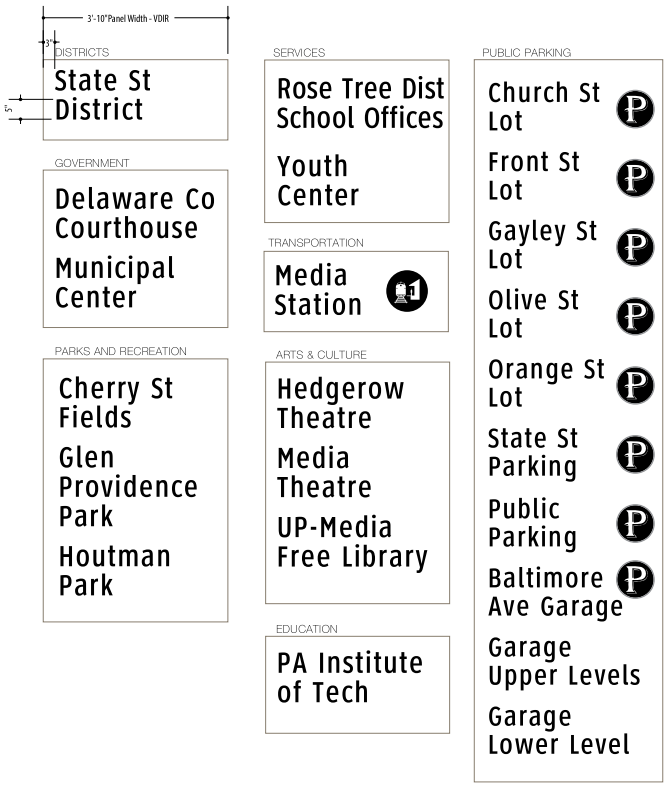
DRAWN BY: LH

REVISIONS

1. 01/15/21

SHEET NO.

A.4



SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 5 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
VDIR.7
VDIR.8

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Vehicular Terminologies 5" High Copy

DATE 06/30/16

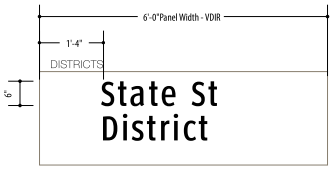
DRAWN BY: LH

REVISIONS

1. 01/15/21

SHEET NO.

A.5



GOVERNMENT

Delaware Co
Courthouse

Municipal
Center

PARKS & RECREATION

Cherry St
Fields

Glen
Providence

Houtman
Park

SERVICES

Rose Tree
School Offices

Youth Center

TRANSPORTATION

Media
Station

ARTS & CULTURE

Hedgerow
Theatre

Media
Theatre

UP-Media
Free Library

EDUCATION

PA Institute
of Tech

PUBLIC PARKING

Church St
Lot

Front St
Lot

Gayley St
Lot

Olive St
Lot

Orange St
Lot

State St
Parking

Public
Parking

Baltimore
Ave Garage

Garage
Upper Levels

Garage
Lower Level

SPECIFICATIONS

Terminology shown represents graphic breaks for Vehicular Directional signs with 6 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
VDIR.4
VDIR.5
VDIR.6

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Suite 208
West Chester, PA 19380
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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Vehicular Terminologies
6" High Copy

DATE 06/30/16

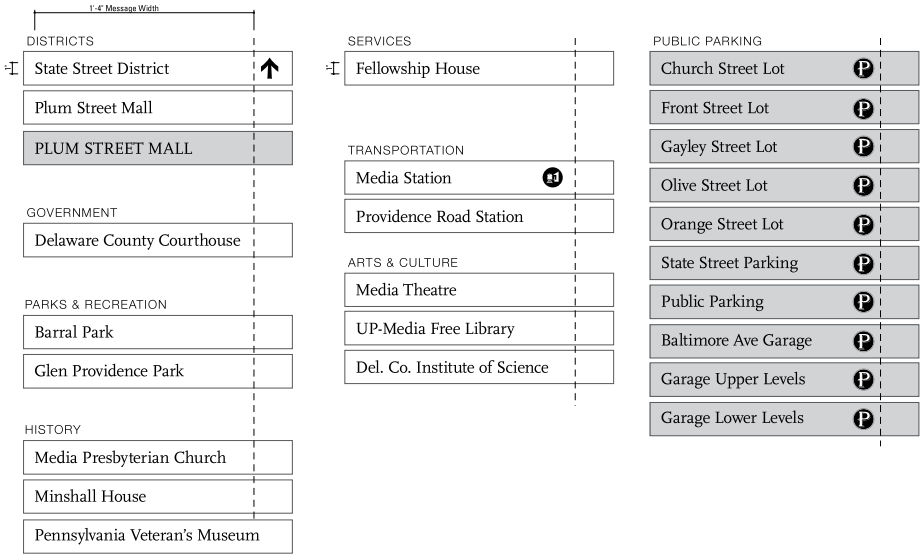
DRAWN BY: LH

REVISIONS

1. 01/15/21

SHEET NO.

A.6



SPECIFICATIONS

Terminology shown represents graphic breaks for Pedestrian Directional signs with 1 inch high copy.

ALL TYPE SHALL BE SET EXACTLY AS SPECIFIED.

SIGN TYPES:
PDIR.1
PDIR.2

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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West Chester, PA 19380
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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Pedestrian Terminologies

DATE 06/30/16

DRAWN BY: LH

REVISIONS

1. 01/15/21

SHEET NO.

A.7

LOGO ELEMENTS

MEDIA

SYMBOLS

Utilized in Vehicular and Pedestrian Directional signage

Information

Parking

Train Station

ARROWS

Utilized in Vehicular & Pedestrian Directional signage

Left Arrow

Up-Left Arrow

Straight Arrow

Up-Right Arrow

Right Arrow

Straight-Left Arrow

Up-Straight-Left Arrow

Up-Straight-Right Arrow

Straight-Right Arrow

SPECIFICATIONS

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!

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

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Project Artwork Vehicular Signage

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

A.8

R REFLECTIVE VINYL	NAME	SPECIFICATION	APPLICABLE	PROCESS
R1	White	3M High Intensity Prismatic Reflective Sheeting 3930 Color: White	Standard for System (typ.)	Knockout White: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R2	Blue	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7545 C/Matthews Paint 22028	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R3	Parking Green 1	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7732 C	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
R4	Parking Green 2	3M High Intensity Prismatic Reflective Sheeting 3930 Color Match: Pantone® 7485 C	Standard for System (typ.)	Custom Color: Background and Characters 3M custom inks direct to 3930 with 3M approved Clear UV/Graffiti overlaminate. *Applied according to Manufacturers Spec to aluminum sheet.
		* MUST comply with MUTCD section Table 2A-3 – Minimum maintained retroreflectivity levels. Approved process: Durst RHO 161 TS printer. Sherine Industries: (604) 513-1887. NOTE: All 3M products are to be processed and applied according to 3M specifications. The seaming of material is NOT preferred. If the height of a sign panel is greater then 48 inches, the 3M 3930 material should be oriented vertically with stripes at 0 degrees, to avoid the seaming of material. If seaming is required, it should occur at the rule line or between messages.		

V VINYL	NAME	SPECIFICATION	APPLICABLE	PROCESS
V1	White	3M Scotchcal ElectroCut Opaque Vinyl Film 7725-10 White	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V2	Blue	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7545 C/Matthews Paint 22028	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V3	Parking Green 1	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7732 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V4	Parking Green 2	3M Scotchcal ElectroCut Opaque Vinyl Film Color Match: Pantone® 7485 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V5	Parking Green 1	3M Scotchcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7732 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V6	Parking Green 2	3M Scotchcal ElectroCut Translucent Vinyl Film Color Match: Pantone® 7485 C	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V7	Pink	3M Scotchcal ElectroCut Opaque Vinyl Film Pink 3630-108	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V8	Yellow	3M Scotchcal ElectroCut Opaque Vinyl Film Yellow 3630-015	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V9	Blue	3M Scotchcal ElectroCut Translucent Vinyl Film Intense Blue 3630-127	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.
V10	Green	3M Scotchcal ElectroCut Translucent Vinyl Film Lime Green 3630-136	Standard for System (typ.)	Surface applied according to 3M manufacturers specifications.

SPECIFICATIONS

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 .080" 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.

NOTES

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

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE
Reflective and Opaque Vinyl Color Chart

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
A.9

P PAINTS	NAME	SPECIFICATION	APPLICABLE	PROCESS
P1	White	Matthews Paint MP 11477	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P2	Blue	To match Matthews Paint 22028	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P3	Green Metallic	To match Matthews Paint 42083	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P4	Parking Green 1	To match Pantone® 7732 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P5	Parking Green 2	To match Pantone® 7485 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P6	Info Blue 1	To match Pantone® 2132 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P7	Info Blue 2	To match Pantone® 277 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P8	Dark Blue Metallic	To match Matthews Paint 22028	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P9	Silver	To match Matthews Paint 18082	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P10	Black	To match Matthews Paint 30914	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P11	Yellow Metallic	To match Matthews Paint 20354	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P12	Gray	To match Pantone® 2333 C	Standard for System (typ.)	
P13	Courthouse Teal	To match Pantone® 625 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P14	Light Gray	To match Pantone® 434 C	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P15	Pink Metallic	To match Matthews Paint 22289	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P16	Dark Steel	To match Matthews Paint 56389	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P17	Light Blue Metallic	To match Matthews Paint 22026	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.

M MATERIALS	NAME	SPECIFICATION	PROCESS
M1	Brick		
M2	Stone		
M3	Dye- Sub	dHPL exterior grade	Hi resolution CMYK printed graphics set into phenolic resin exterior grade panels.
M4	Aluminum	Pin-mounted (non-corrosive) individual aluminum letters	Clear anodizing over natural aluminum finish
M5	Mosaic Tile		Hi resolution CMYK printed graphics set into phenolic resin exterior grade panels.
M6	Concrete	Formed concrete cap/ base	
M7	Acrylite	ACRYLITE® Satinice (DP9) Lollipop 4H12 DC	
M8	Acrylite	ACRYLITE® Satinice (DP9) Mandarin 2H08 DC	
M9	Acrylite	ACRYLITE® Satinice (DP9) Sky Blue 5C01 DC	
M10	Acrylite	ACRYLITE® Satinice (DP9) Kiwi 6H07 DC	
M11	Acrylite	ACRYLITE® Colorless Satinice	

SPECIFICATIONS

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 .080" 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.

NOTES

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merje

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

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Paint and Materials Color Chart

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

A.10

B | Placement Guidelines

Figure 1

Sign A: VDIR.1-6

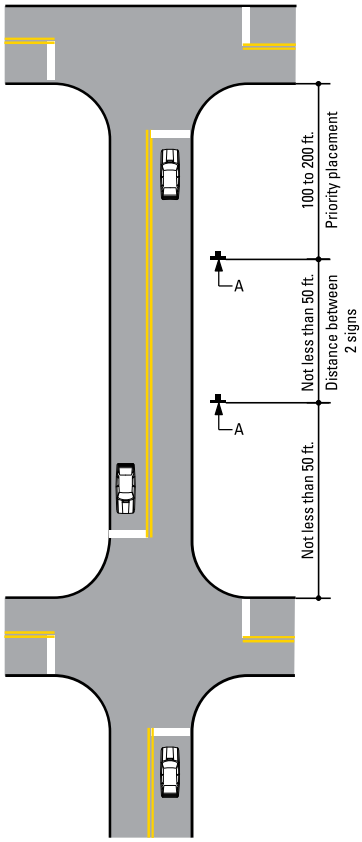
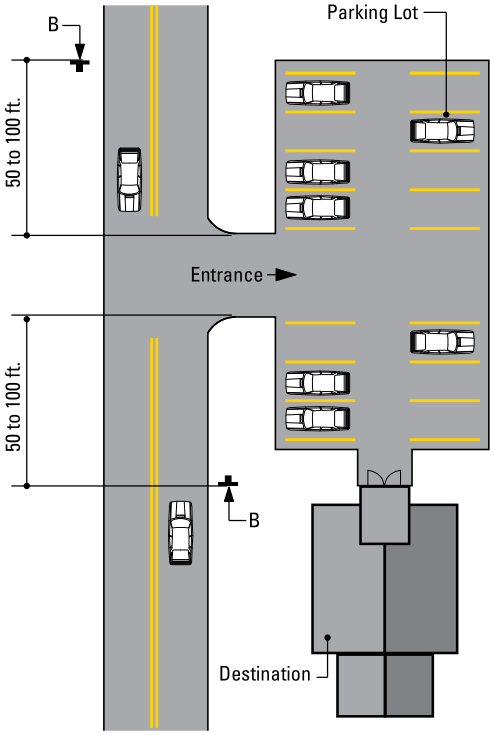


Figure 2

Sign B: DEST.1 or PARK.1



SPECIFICATIONS

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 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.

NOTES

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Suite 208
West Chester, PA 19380
T 484.266.0648
www.merjedesign.com

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Placement Guidelines

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

B.1

Figure 3

Sign C: VDIR.4-6

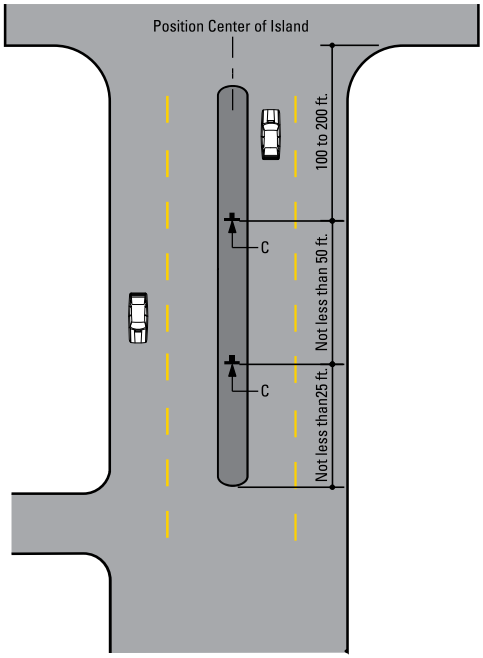
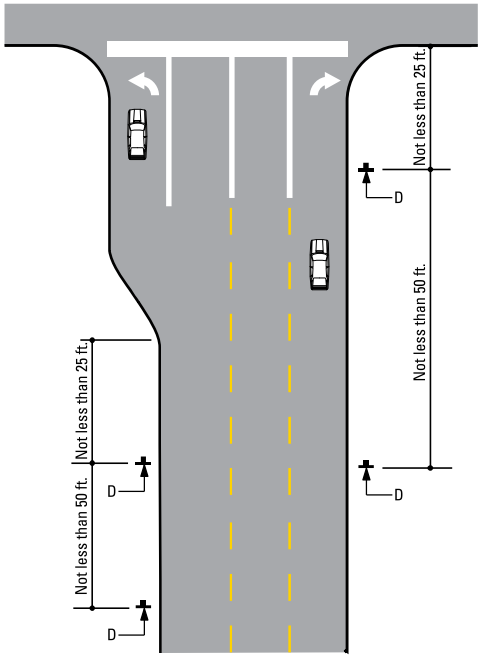


Figure 4

Sign D: VDIR.1-6



SPECIFICATIONS

FIGURE 3 - Vehicular Directional - Sign Placement Guideline
FIGURE 4 - Vehicular Directional - 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.

NOTES

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Placement Guidelines

DATE 06/30/16

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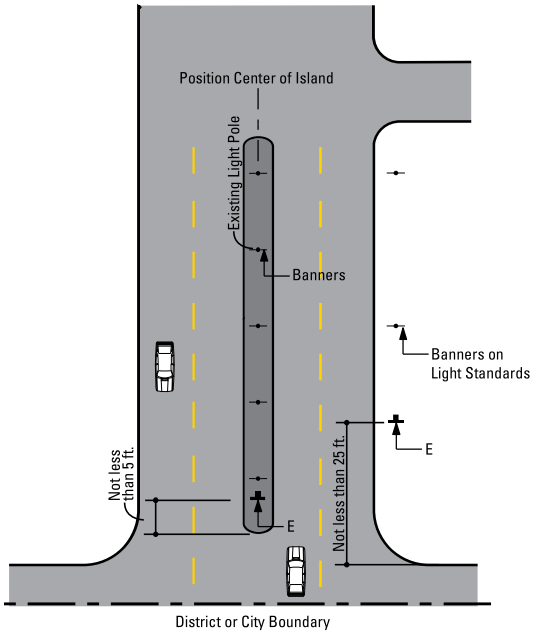
REVISIONS

SHEET NO.

B.2

Figure 5

Sign E: GATEWAY or DISTRICT



SPECIFICATIONS

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.

NOTES

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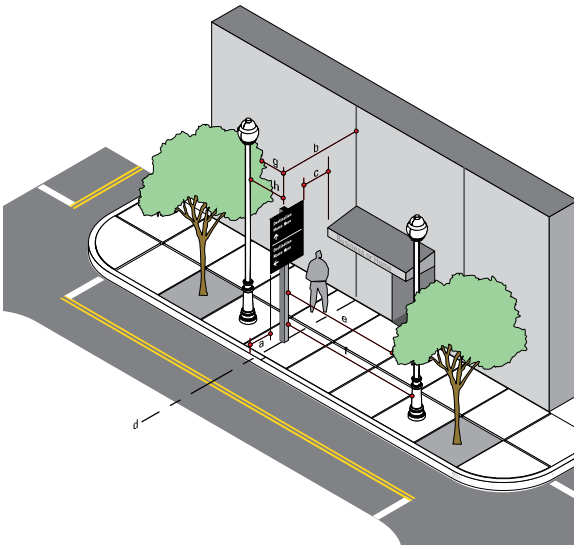
B.3

Figure 6

Not to Scale



SIGN TYPE	MEASURE	PREFFERED DISTANCE	MINIMUM DISTANCE
a	Distance from Edge of Sign Panel to Edge of Curb	2'-0" or more	1' - 0"
b	Distance from Sign Post to Nearest Obstruction	4' - 0" or more	3' - 0"
c	Distance from Edge of Sign Panel to Nearest Overhead Obstruction	4' - 0" or more	1' - 0"
d	Sign Placement in Relation to Adjacent Building	align to building Edge	Do Not obstruct Entrance
e	Distance from Face of Sign to Nearest Tree Branch	20' - 0" or more	15' - 0"
f	Distance from Face of Sign to Nearest Utlity Pole	15' - 0" or more	10' - 0"
g	Distance from Back of Sign to Nearest Tree Branch	8' - 0" or more	3' - 0"
h	Distance from Back of Sign to Nearest Utility Pole	15' - 0" or more	10' - 0"

Measurements and Distances shown are guidelines only prevailing local and state codes shall supersede information presented.

SPECIFICATIONS

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.

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Sign Placement Guidelines

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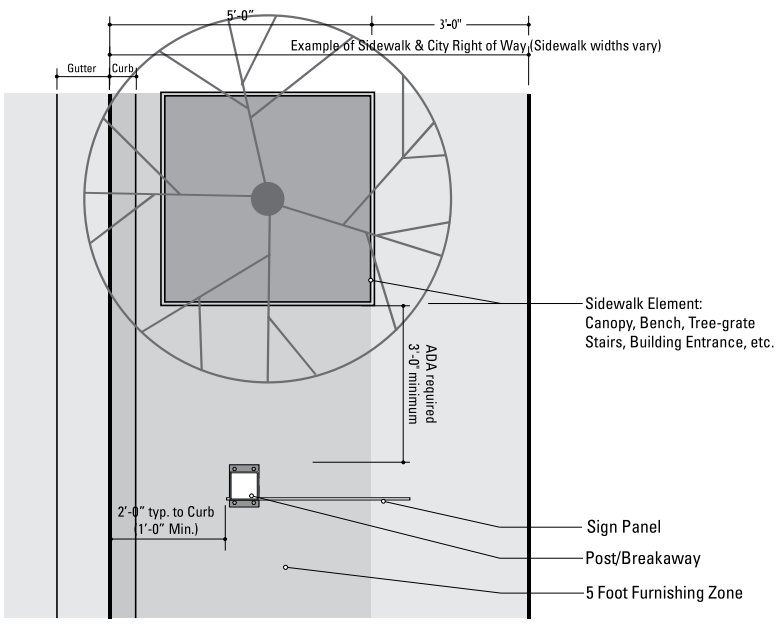
SHEET NO.

B.4



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.

Figure 7

Not to Scale

SPECIFICATIONS

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 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.

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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.

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Sign Placement Guidelines

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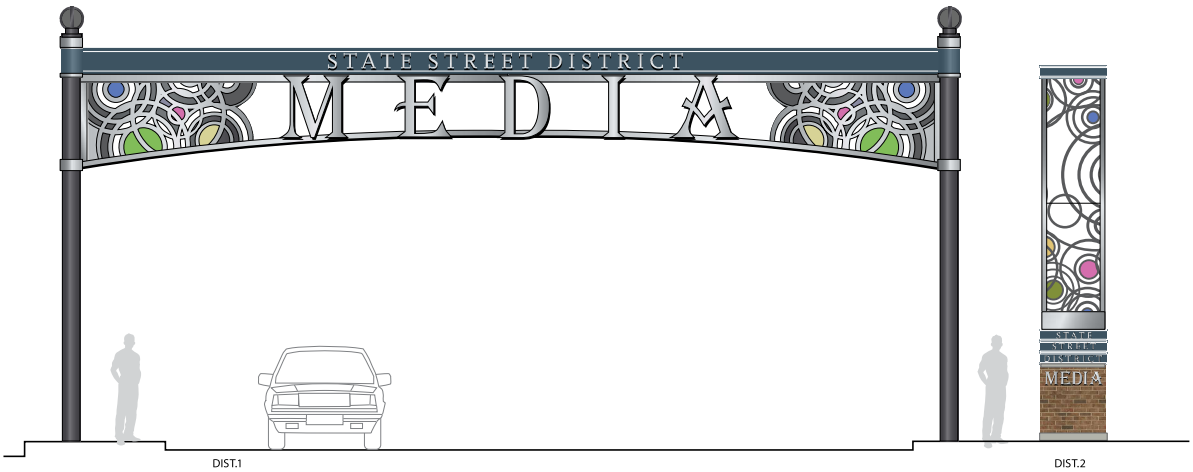
SHEET NO.
B.5

C | Menu of Sign Types

GATE.1
Primary City
Gateway

GATE.2
Secondary City
Gateway



DIST.1
STATE STREET DISTRICT
Gateway

DIST.2
STATE STREET DISTRICT (Alternate)
Gateway

SPECIFICATIONS

MENU OF SIGN TYPES
Gateway Identification
State Street District Identification

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Media Borough, PA
Wayfinding and Signage System

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SHEET TITLE
Gateway Signage Overview

SHEET NO.
C.1

VDIR.1
Vehicular Directional
4" Copy

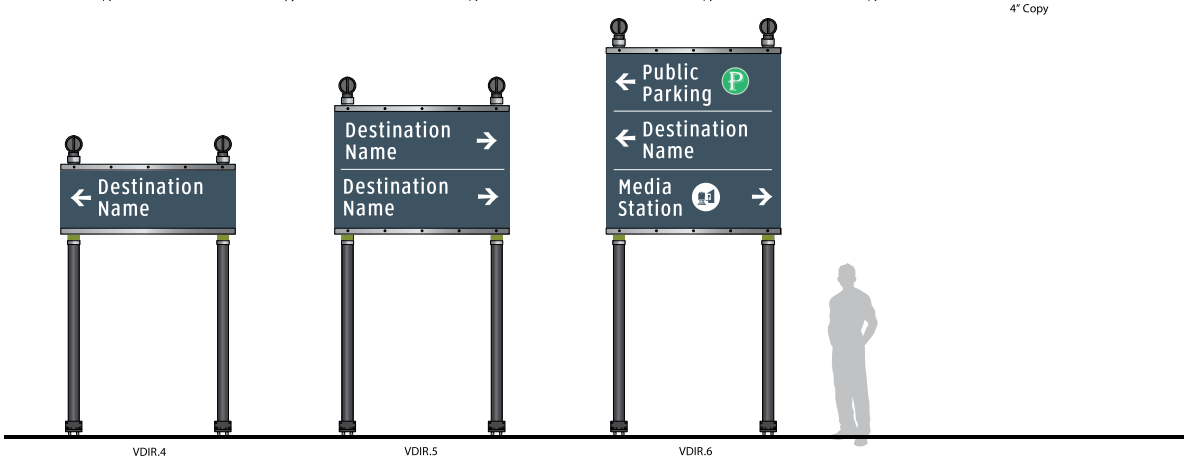
VDIR.2
Vehicular Directional
4" Copy

VDIR.3
Vehicular Directional
4" Copy

VDIR.7
Vehicular Directional
5" Copy

VDIR.8
Vehicular Directional
5" Copy

RES.1
Residential
Directional
4" Copy



VDIR.4
Vehicular Directional
6" Copy

VDIR.5
Vehicular Directional
6" Copy

VDIR.6
Vehiclar Directional
6" Copy

SPECIFICATIONS

MENU OF SIGN TYPES
Vehicular Directional

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.
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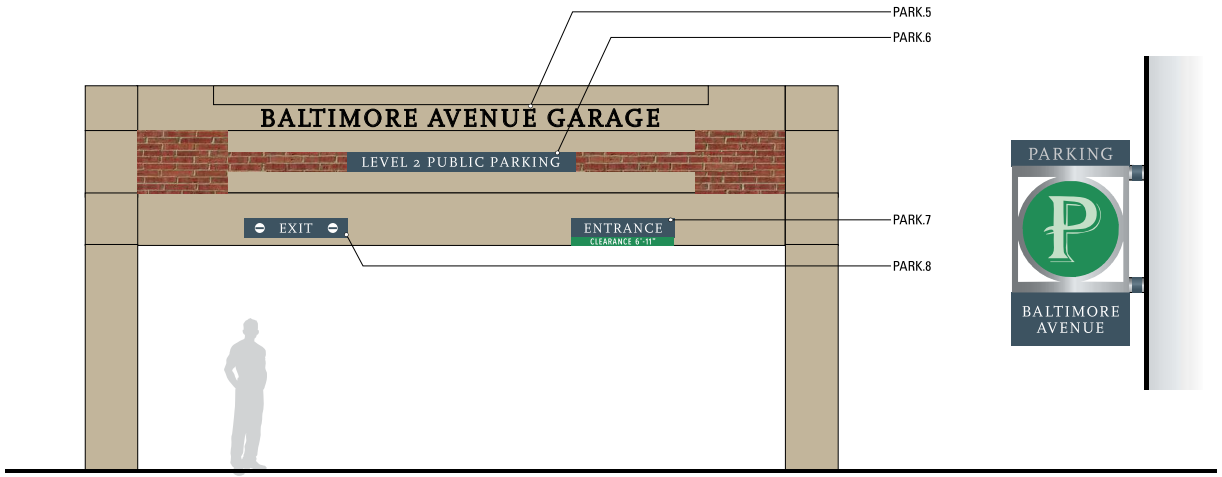
SHEET TITLE
Vehicular Signage Overview

SHEET NO.
C.2



PARK.4
Parking Garage Identification

PARK.1
Parking Trailblazer

PARK.2
Parking Lot Identification

PARK.3
Parking Lot Identification

SPECIFICATIONS

MENU OF SIGN TYPES
Parking

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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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.

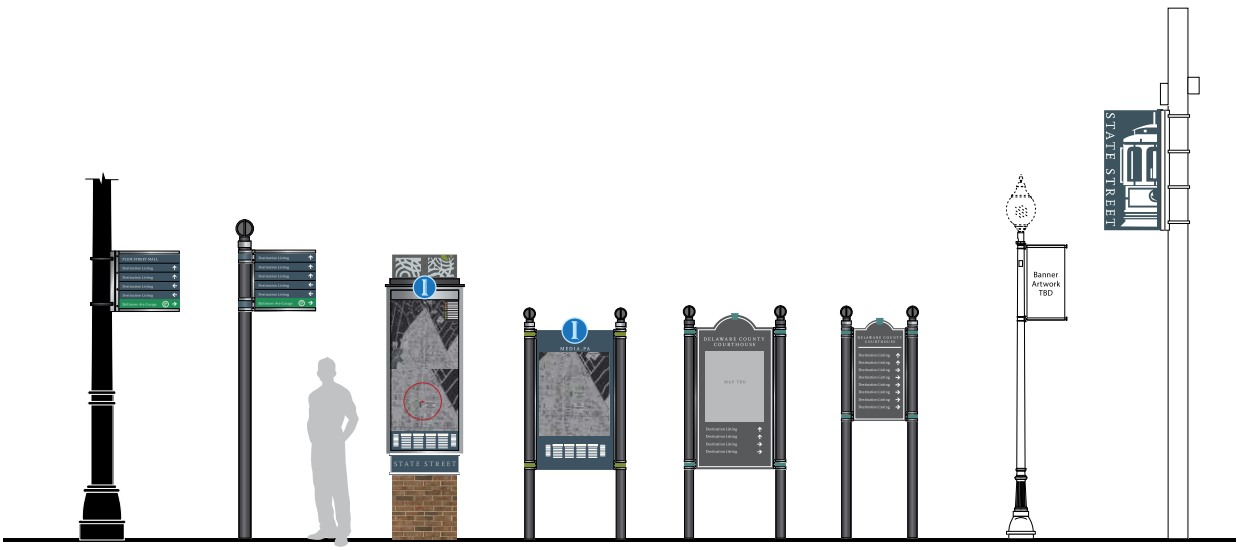
REVISIONS
1. 01/15/21

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
Parking Signage Overview

SHEET NO.
C.3



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.2
Permanent Metal Banner

SPECIFICATIONS

MENU OF SIGN TYPES
Pedestrian

NOTES:
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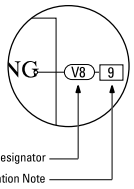
PROJECT NO.

SHEET TITLE
Pedestrian Signage Overview

SHEET NO.
C.4

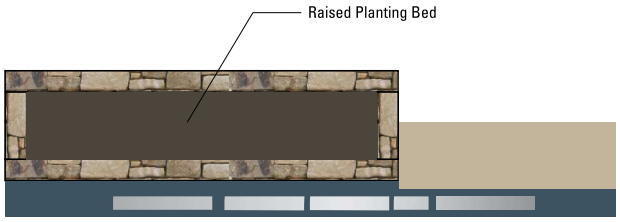
KEY:



The Color Designator Chart is found in the Graphic Standards section.

The Specification Notation is found on the same page as the drawings.

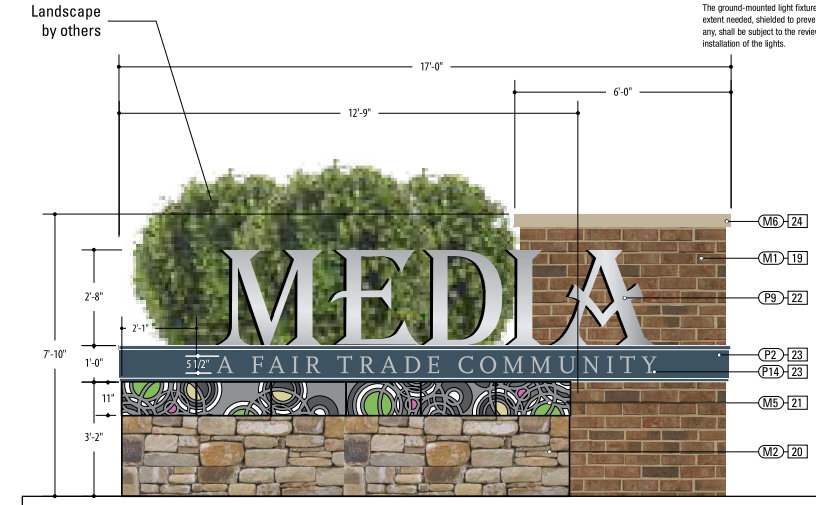
D | Design Intent Drawings



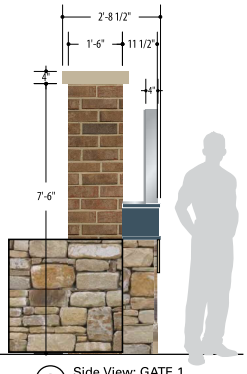
1 Top View: GATE.1
SCALE: 3/8" = 1'-0"

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 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.

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.



2 Front View: GATE.1
SCALE: 3/8" = 1'-0"



3 Side View: GATE.1
SCALE: 3/8" = 1'-0"

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

20. STONE BASE
Material: Stone Veneer
MANUFACTURER: Quality Stone or Approved equal
INSTALL: Morter/Grout
COLOR: To Match Stone
STYLE: 1/3 Cobblesand, 1/3 Regal Ashlar, and 1/3 Ohio drystack
Mounting: per manufacturers specifications

21. CUSTOM ART TILE
MATERIAL: Glazed, Handmade Ceramic
MANUFACTURER: Local Artist
PRODUCT: Custom tile sheets in sizes specified
SIZE AND SHAPE: As Noted
THICKNESS: 1/2"
COLOR: Custom as noted Artwork to be provided
ADHESIVE: As required
GROUT: Epoxy grout or silicone sealant; color to match Dark Grey

22. ALUMINUM LETTERS
MATERIAL: 4" thk Reverse channel individual letters.
FABRICATION PROCESS: Router Cut/Fabricated Solid Front, Back, Sides

EDGES: Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fasten to sign base cap.

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: Preformed custom size concrete cap
CONCRETE CAP FASTENER: Mortar.

Lighting : **PHILIPS LED LYTEPRO Flood**
CONSTRUCTION: Die-cast aluminum body, SS screws.
OPTICS: Wide, Spot and Cutoff distributions available.
ELECTRICAL: Metal Halide and High Pressure Sodium available.
MOUNTING: 1/2" arm with serrated teeth lock arm mount unit into postion. Can be angled for direct lighting.
FINISH: Bronze polyester powder coat.
LISTINGS: UL/cUL 1598 listed, suitable for wet conditions.
WARRANTY: 1 Year for mechanical, finish and electrical.
QTY: Min. 2 per location as required after Field Testing
Contact Philips lighting consultant for electrical and optic solutions for each location. Do NOT spot light any LED panel applications.

Vaughn Van Gilson
Philips Lightolier
856-488-5566
Vaughn.Gilson@philips.com
www.hadco.com

NOTES

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2. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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merje
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Suite 208
West Chester, PA 19380
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Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

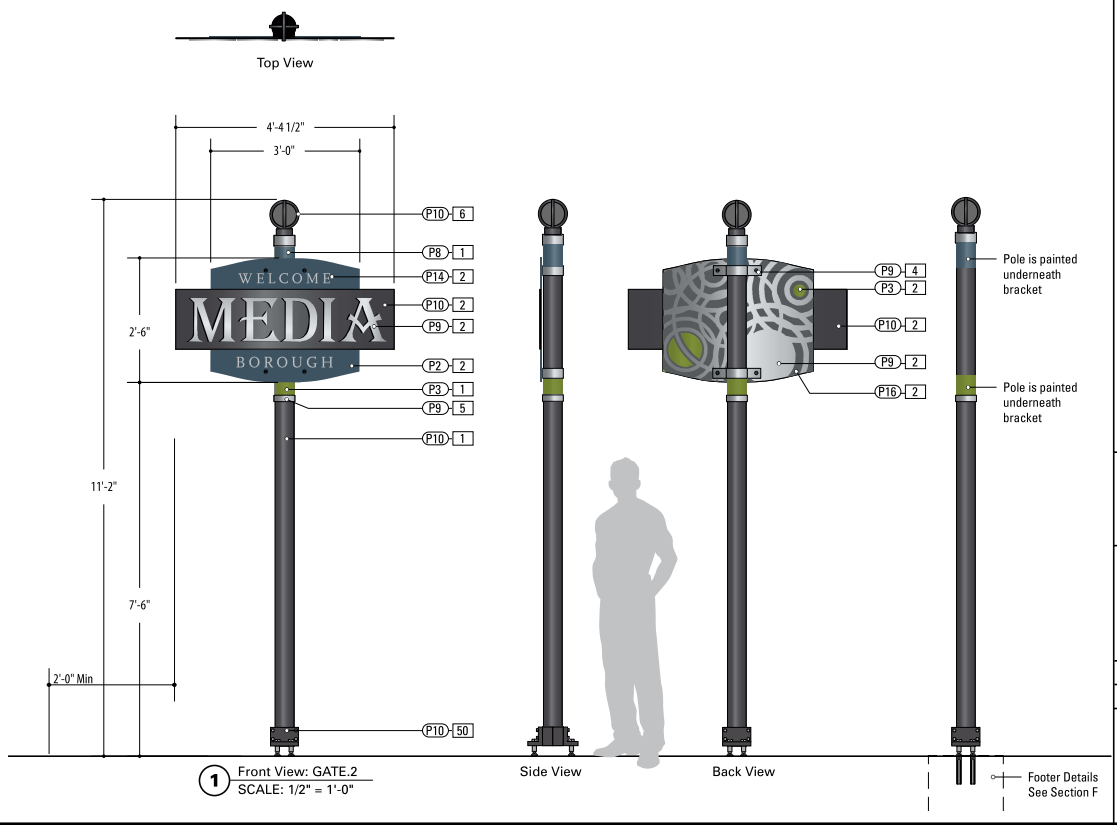
SHEET TITLE
Sign Type GATE.1
Borough Gateway

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.1



SPECIFICATIONS **SIGN TYPE:** GATE.2 **FUNCTION:** Borough Gateway

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. 1/4" SIGN PANEL - PAINT
   MATERIAL: 1/4'' 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 per PENNDOT.

NOTES

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2. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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SHEET TITLE
Sign Type GATE.2
Borough Gateway

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.2

NOT IN SCOPE

SPECIFICATIONS **SIGN TYPE:** GATE.3 **FUNCTION:** 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

20. STONE BASE
Material: Stone Veneer
MANUFACTURER: Quality Stone or Approved equal
INSTALL: Morter/Grout
COLOR: To Match Stone
STYLE: 1/3 Cobblesand, 1/3 Regal Ashlar, and 1/3 Ohio drystack
Mounting: per manufacturers specifications

21. CUSTOM ART TILE
MATERIAL: Glazed, Handmade Ceramic
MANUFACTURER: Local Artist
PRODUCT: Custom tile sheets in sizes specified
SIZE AND SHAPE: As Noted
THICKNESS: 1/2"
COLOR: Custom as noted Artwork to be provided
ADHESIVE: As required
GROUT: Epoxy grout or silicone sealant; color to match Dark Grey

22. CUT ALUMINUM LETTERS
MATERIAL: 1" thk individual letters.
FINISH: Brushed
FABRICATION PROCESS: Router Cut
EDGES: Smooth
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.
FASTENER: Mechanically fasten to brick pylon.

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

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

37. LOGO PLAQUE
MATERIAL: 1/2" thick Aluminum
FABRICATION PROCESS: Router Cut/Etched and Filled Graphics
EDGES: Smooth
COLOR: Black
SURFACE PROCESS: Brushed - Clear Coat

Lighting : **PHILIPS LED LYTEPRO Flood**
CONSTRUCTION: Die-cast aluminum body, SS screws.
OPTICS: Wide, Spot and Cutoff distributions available.
ELECTRICAL: Metal Halide and High Pressure Sodium available.
MOUNTING: 1/2" arm with serrated teeth lock arm mount unit into postion. Can be angled for direct lighting.
FINISH: Bronze polyester powder coat.
LISTINGS: UL/cUL 1598 listed, suitable for wet conditions.
WARRANTY: 1 Year for mechanical, finish and electrical.
QTY: Min. 2 per location as required after Field Testing
Contact Philips lighting consultant for electrical and optic solutions for each location. Do NOT spot light any LED panel applications.

Vaughn Van Gilson
Philips Lightolier
856-488-5566
Vaughn.Gilson@philips.com
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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

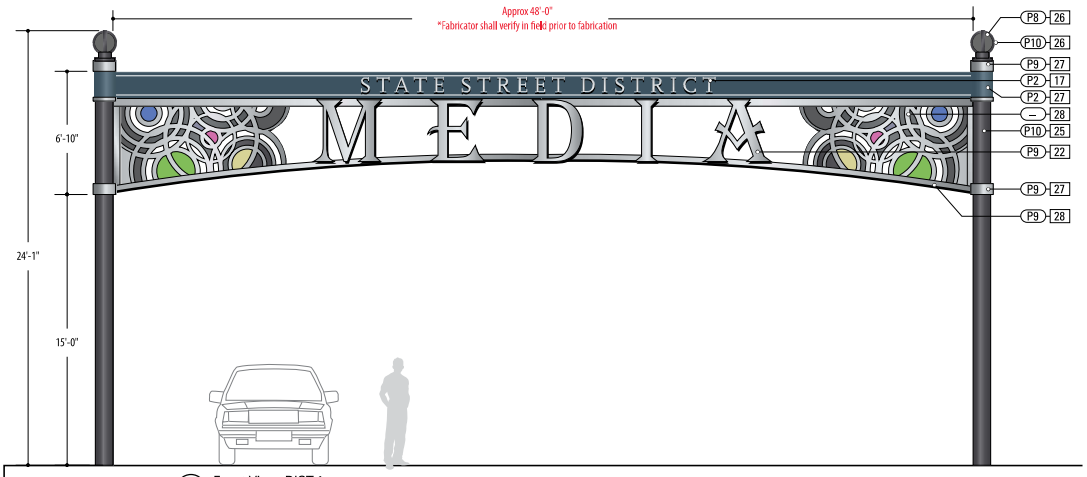
SHEET TITLE
Sign Type GATE.3 Gateway

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.3



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

SPECIFICATIONS **SIGN TYPE:** DIST.1 **FUNCTION:** District Gateway

17. LETTERS
Size: 3/8" Thk.
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 fasten to sign frame.

22. CUT ALUMINUM LETTERS
MATERIAL: 2" thk 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 fasten to sign base cap.

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" 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.

27. 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.

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

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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West Chester, PA 19380
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CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

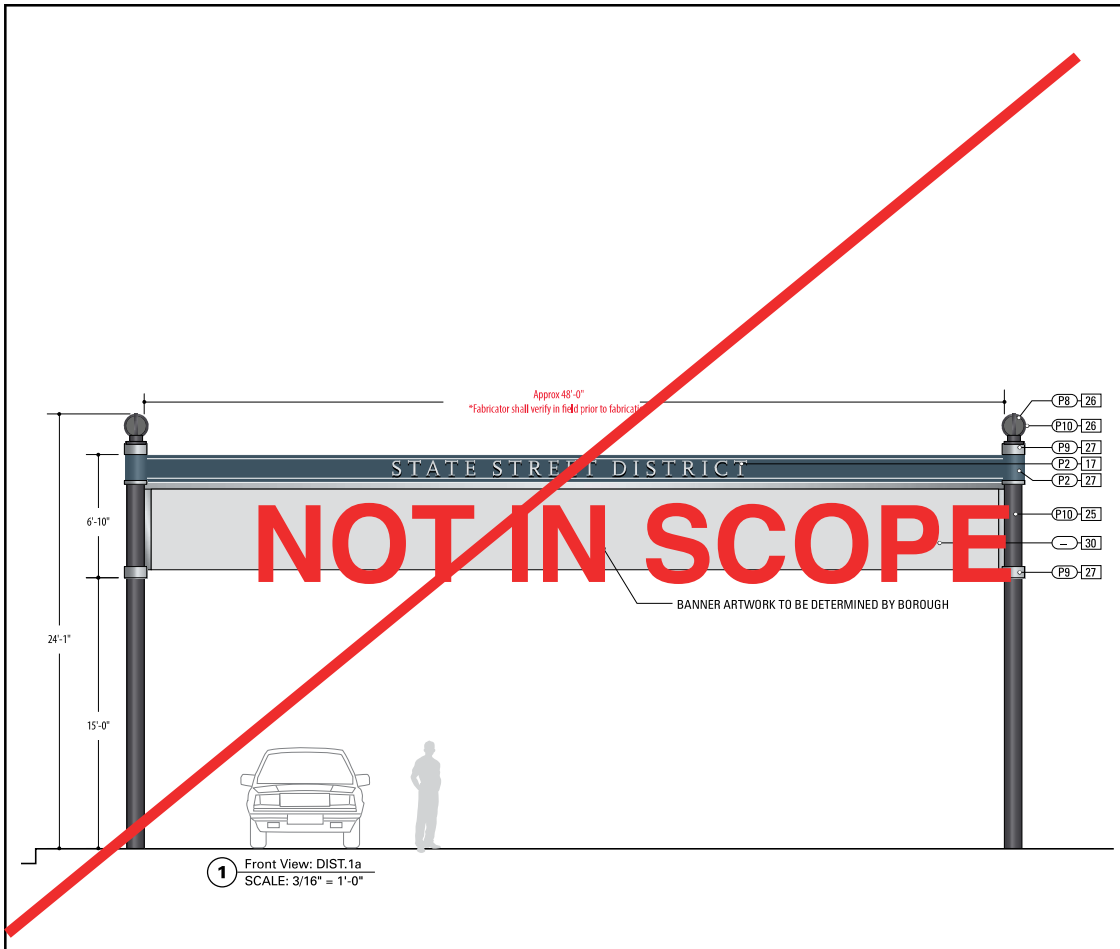
SHEET TITLE
Sign Type DIST.1
District Gateway

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.4



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

SPECIFICATIONS **SIGN TYPE:** DIST.1A **FUNCTION:** District Gateway

17. LETTERS
Size: 3/8" Thk.
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 fasten 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" 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.

27 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 must obtain approval from the Designer or Client for placement prior to fabrication.
2. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Wayfinding and Signage System

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SUBCONSULTANT

SHEET TITLE
Sign Type DIST.1A
District Gateway

DATE 06/30/16

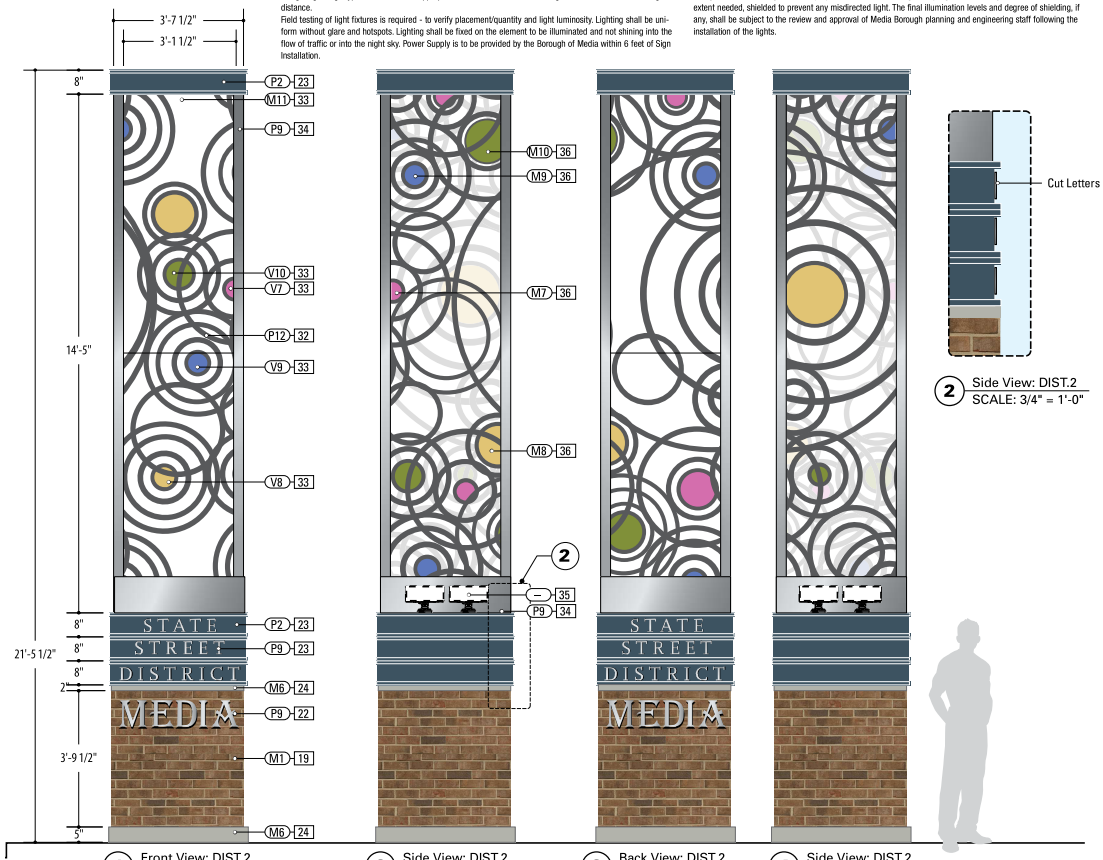
DRAWN BY: LH

REVISIONS

SHEET NO.
D.5

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 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.

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.



1 Front View: DIST.2
SCALE: 3/8" = 1'-0"

OPEN
NO ACRYLIC
BACKER

2 Side View: DIST.2
SCALE: 3/8" = 1'-0"

ACRYLIC
BACKER ON SIDES

3 Back View: DIST.2
SCALE: 3/8" = 1'-0"

OPEN
NO ACRYLIC
BACKER

4 Side View: DIST.2
SCALE: 3/8" = 1'-0"

ACRYLIC
BACKER ON SIDES

2 Side View: DIST.2
SCALE: 3/4" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** DIST.2 **FUNCTION:** District 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

22. CUT ALUMINUM LETTERS
MATERIAL: 1/2" thk individual Aluminum letters.
FABRICATION PROCESS: Router Cut
EDGES: Smooth
SURFACE PROCESS: Brushed
FASTENER: Pin Mount to Brick Base

23. BASE / SIGN 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: Preformed custom size concrete cap
CONCRETE CAP FASTENER: Mortar.

32. 1/4" DECORATIVE (circles) 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 support brackets.

33. FROSTED ACRYLIC SHEET
MATERIAL: 1/4" Acrylite Colorless Satin Ice Acrylic sheet.
FABRICATION PROCESS: Router Cut
EDGES: Smooth
COLORS: Custom as noted
GRAPHIC COLOR SHAPES PROCESS:
3M Scotchcal @ #3630 with 3M approved UV/ Graffiti Vinyl Overlaminate.
(See Color Sheet for all color and material specifications)

34. SUPPORT FRAME
MATERIAL: 4" Aluminum Square Tube, and Aluminum Sheet
FABRICATION PROCESS: Fabricated
EDGES: Smooth
COLORS: Custom As Noted
SURFACE PROCESS: Paint all exposed surfaces with Matthews Acrylic Polyurethane, with clear coat satin finish.

35. COLORBLAST LIGHTING
PRODUCT: Phillips Colorblast 12, color changing LED floodlight. Qty: 2 per sign
ACCESSORIES:
120-000003-03 Accessory Holder for ColorBlast 12 White, Wet & Damp
120-000025-00 Horizontal Spread Lens for ColorBlast 12 36/50°
120-000009-03 Half Top Hat For ColorBlast 12 White, Wet & Damp
CONTROLS: Philips Color Kinetics controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
• Universal power input range : 100 to 240 VAC
Outdoor Rated damp or wet locations.

36. ACRYLIC ROUND BACKER DISCS
MATERIAL: 1/8" Acrylite
FABRICATION PROCESS: Router Cut with applied Transluscent vinyl or embedded color
EDGES: Smooth
COLORS: Custom as noted
FASTENER: Mechanically fasten 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. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.
2. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

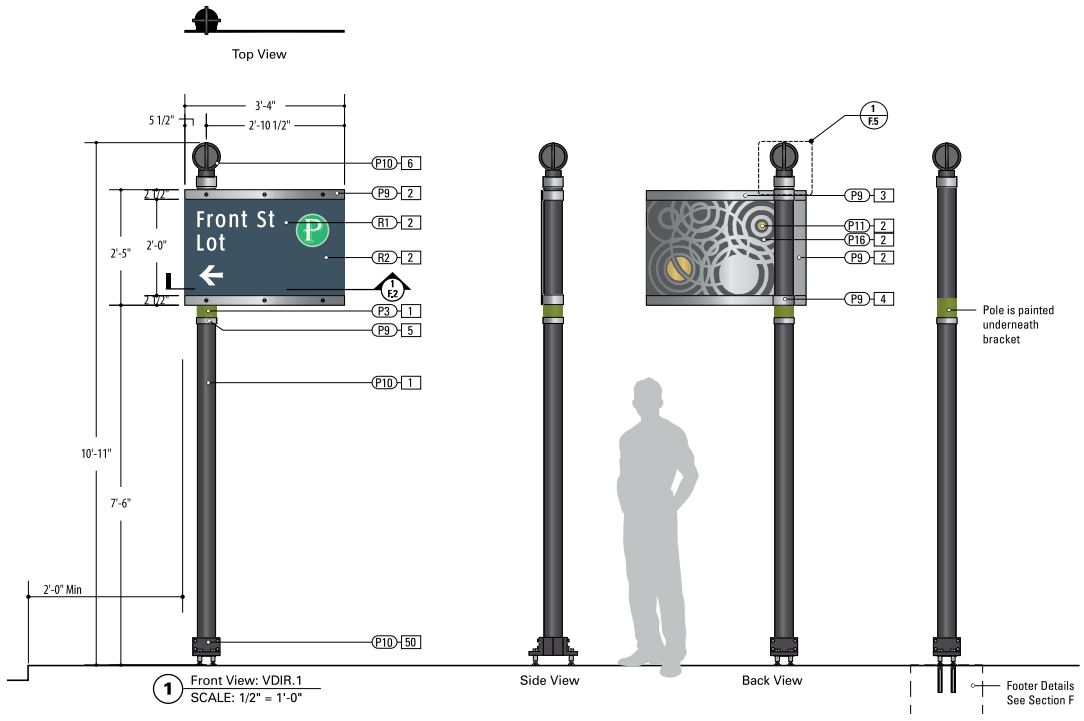
SHEET TITLE
Sign Type DIST.2
District Gateway

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.6



SPECIFICATIONS **SIGN TYPE:** VDIR.1 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type VDIR.1
Vehicular Directional

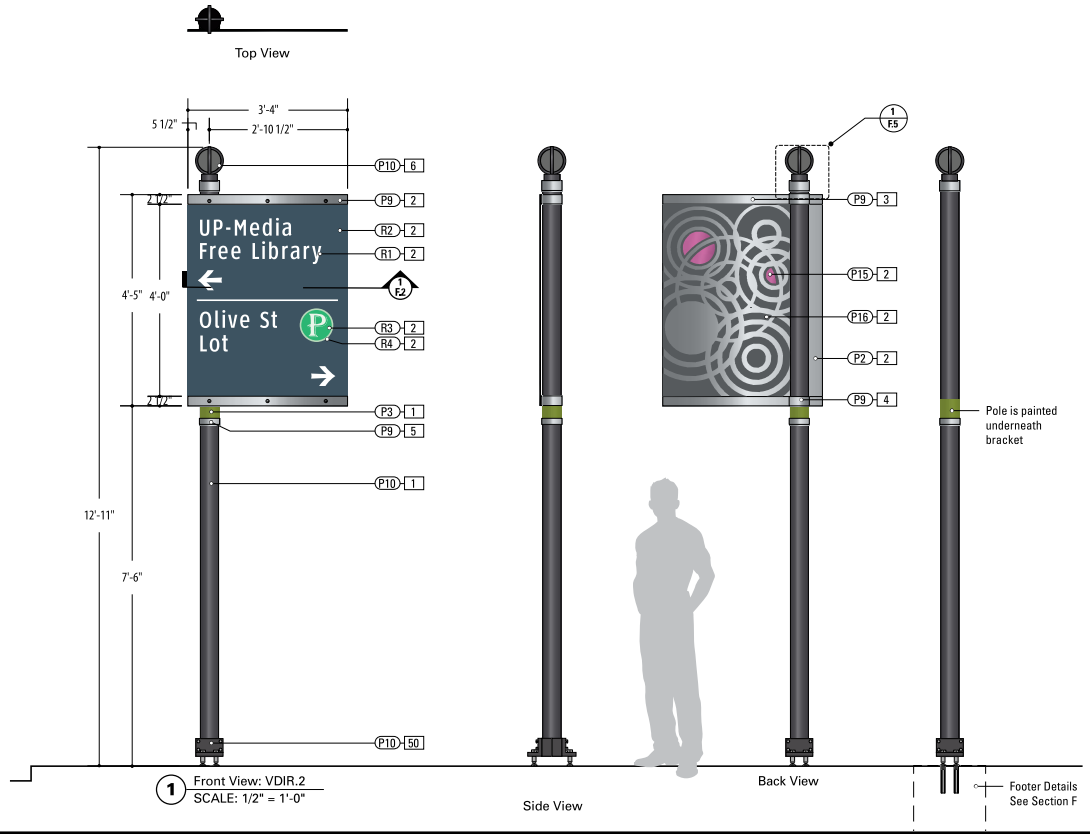
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

D.7



SPECIFICATIONS **SIGN TYPE:** VDIR.2 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

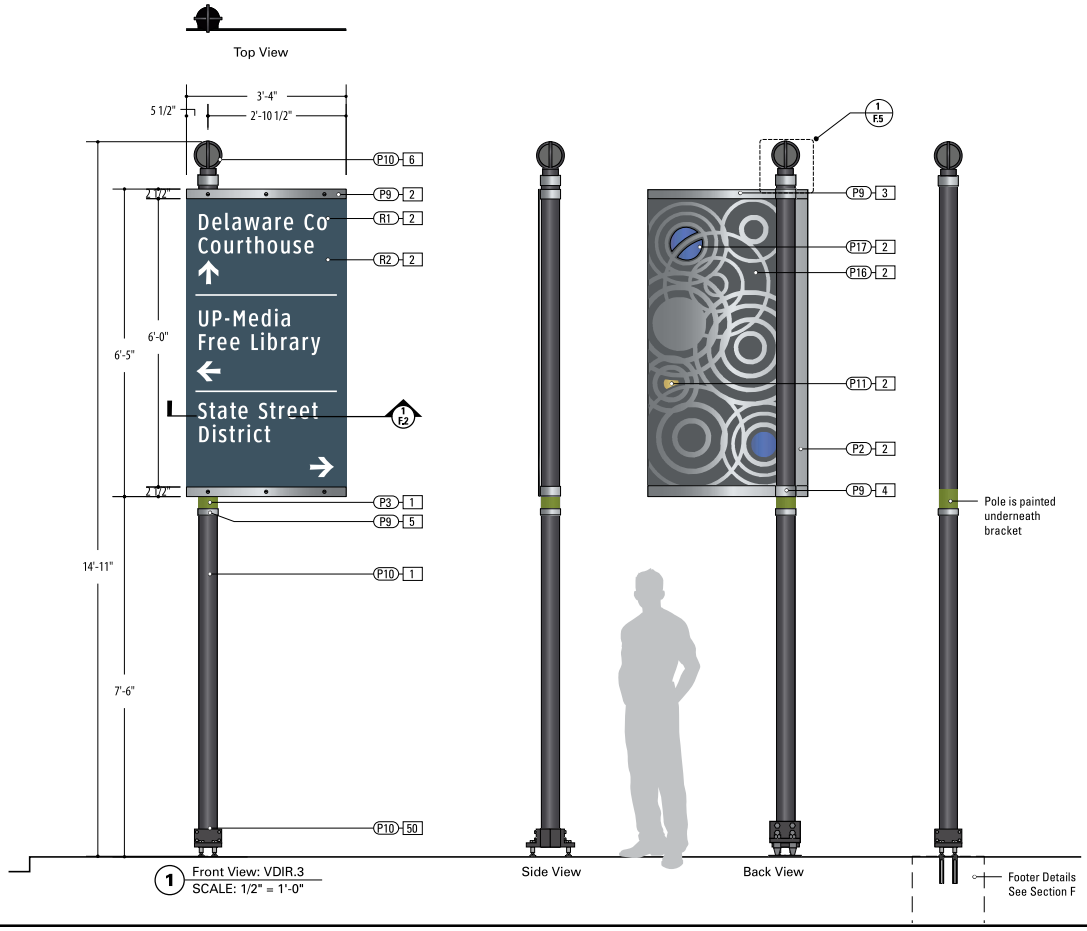
SHEET TITLE
Sign Type VDIR.2
Vehicular Directional

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.8



SPECIFICATIONS **SIGN TYPE:** VDIR.3 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type VDIR.3
Vehicular Directional

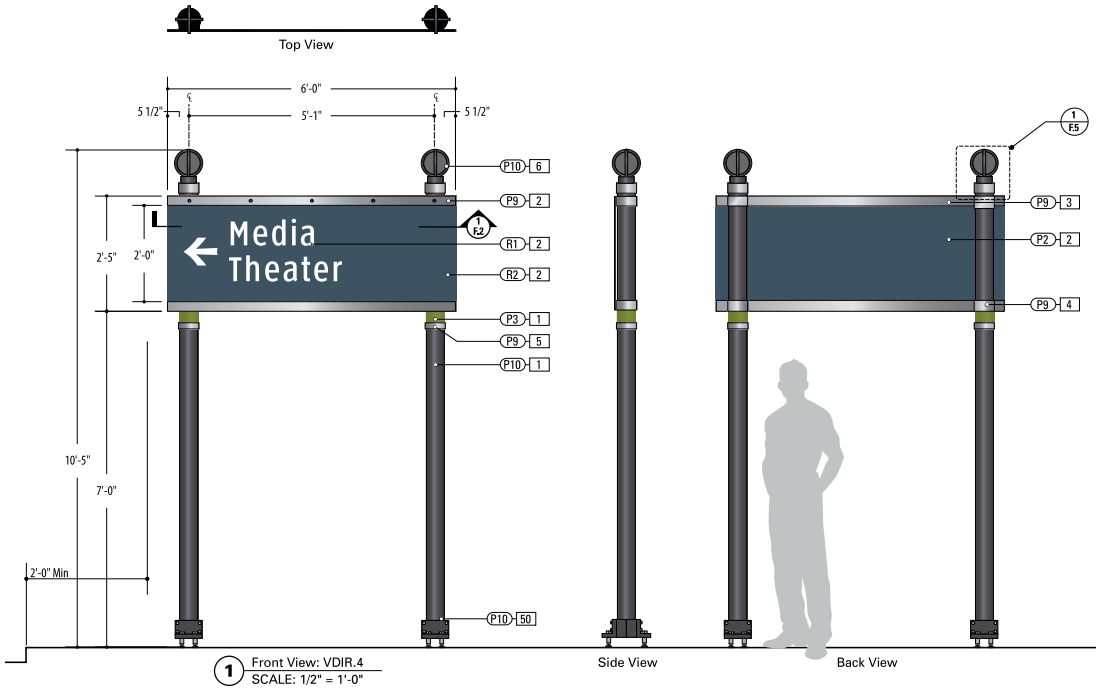
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

D.9



1 Front View: VDIR.4
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** VDIR.4 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

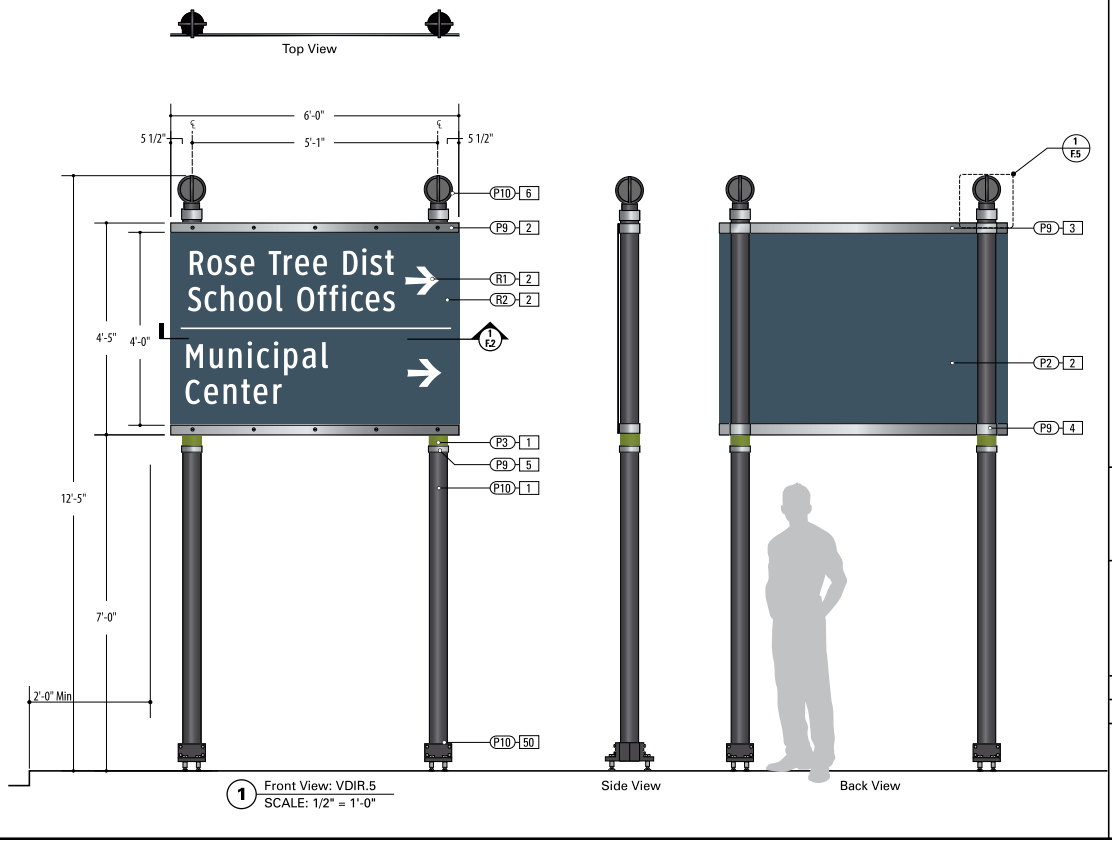
SHEET TITLE
Sign Type VDIR.4
Vehicular Directional

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.10



1 Front View: VDIR.5
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** VDIR.5 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

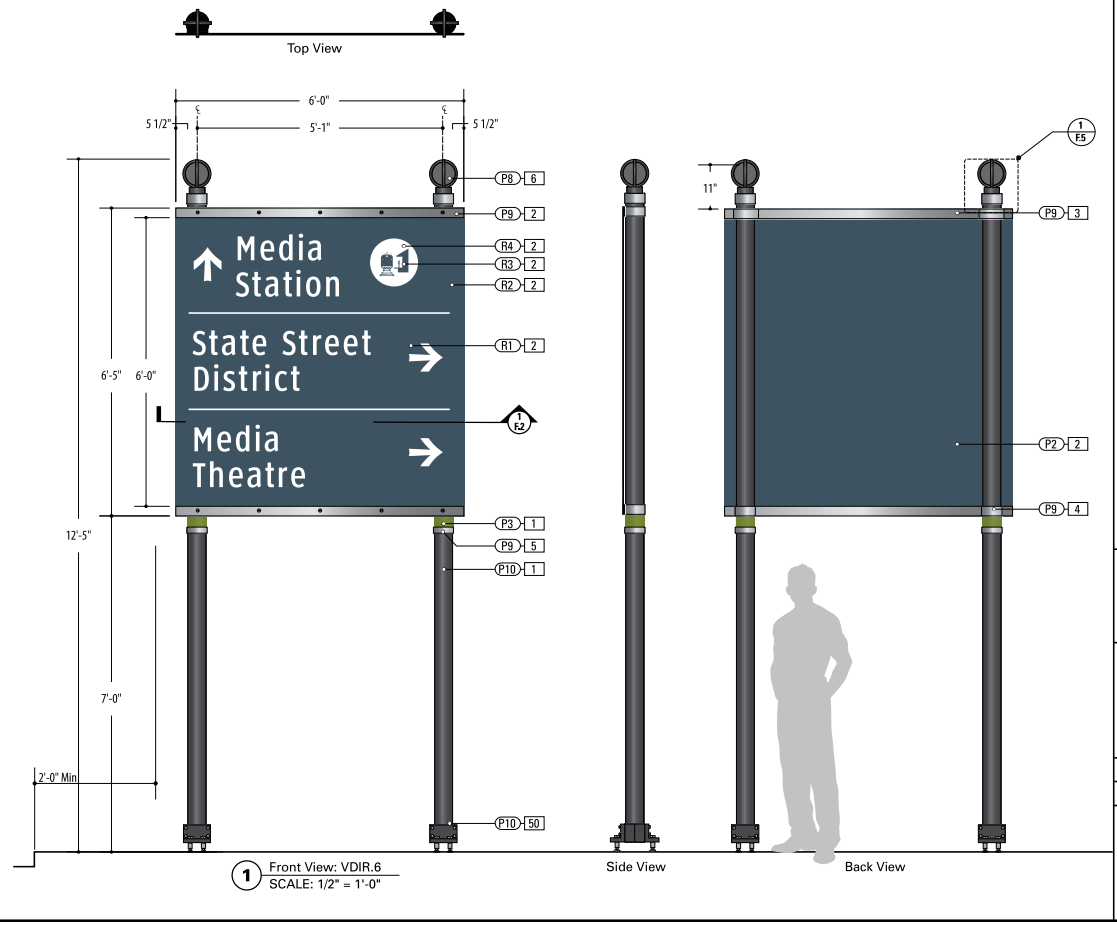
SHEET TITLE
Sign Type VDIR.5
Vehicular Directional

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.11



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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type VDIR.6
Vehicular Directional

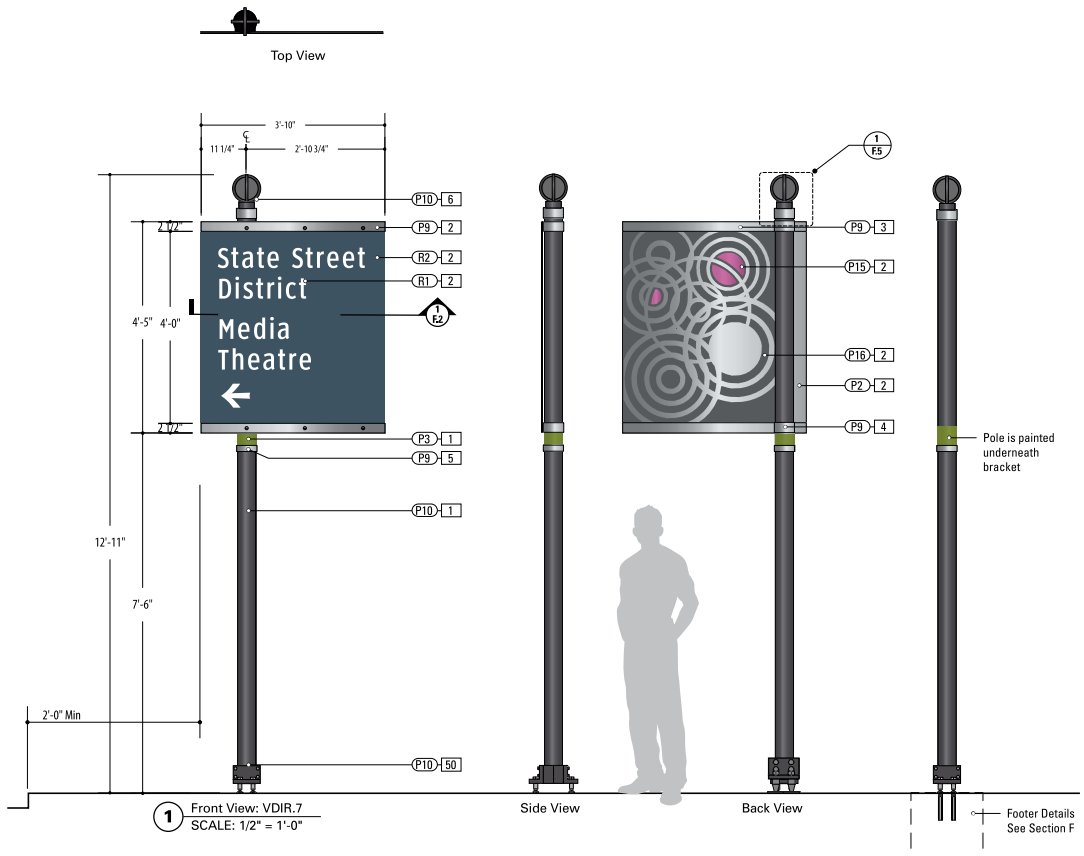
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

D.12



SPECIFICATIONS **SIGN TYPE:** VDIR.7 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type VDIR.7
Vehicular Directional

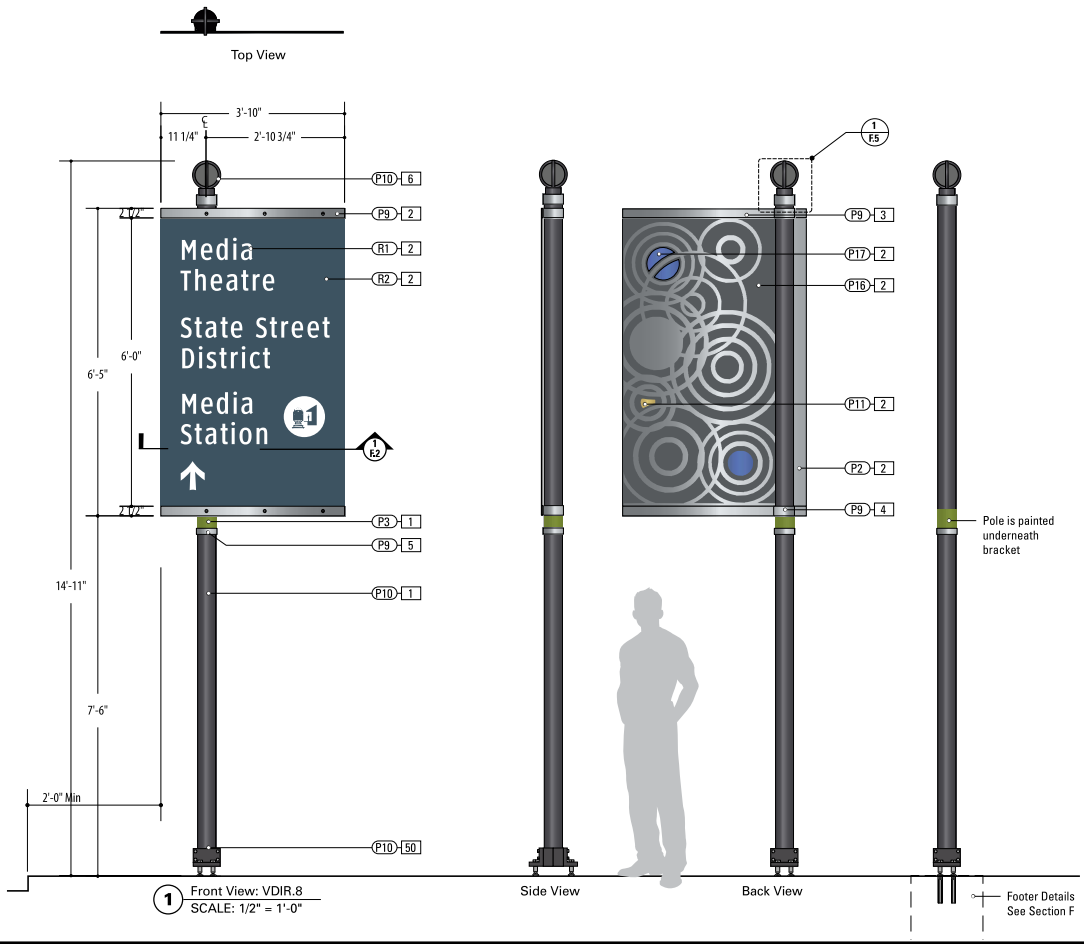
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

D.13



SPECIFICATIONS **SIGN TYPE:** VDIR.8 **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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

DATE 06/30/16

DRAWN BY: LH

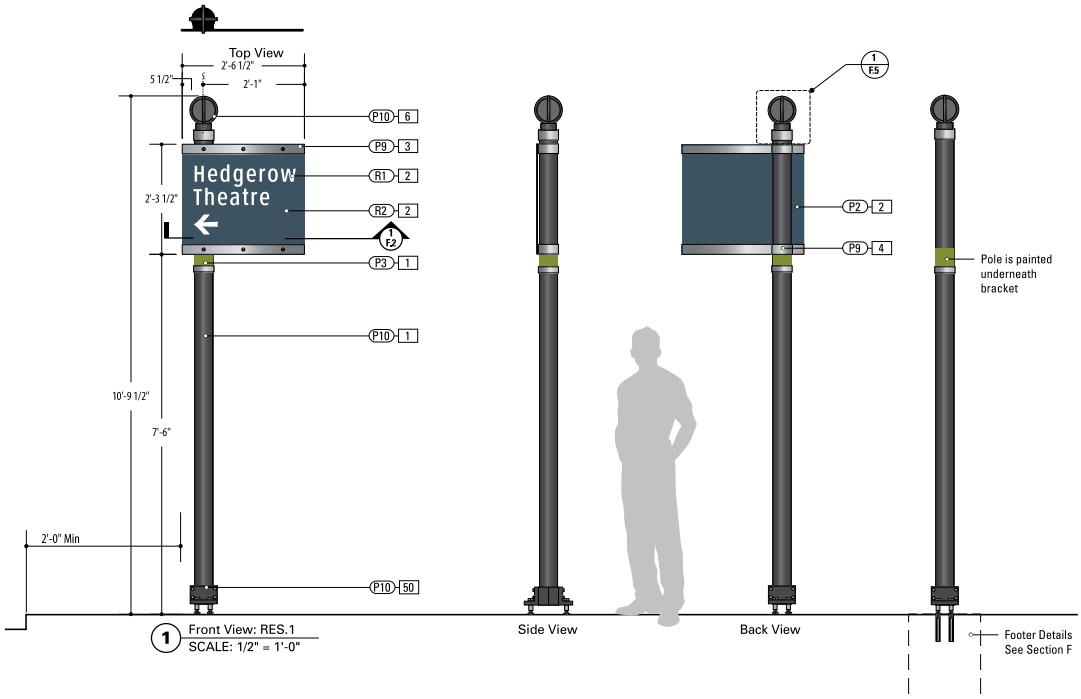
REVISIONS

SHEET TITLE

Sign Type VDIR.8
Vehicular Directional

SHEET NO.

D.14



SPECIFICATIONS **SIGN TYPE:** RES.1 **FUNCTION:** Residential 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.
   FOOTER: As per PENNDOT breakaway specs.

2. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded 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. 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type RES.1
Residential Vehicular Directional

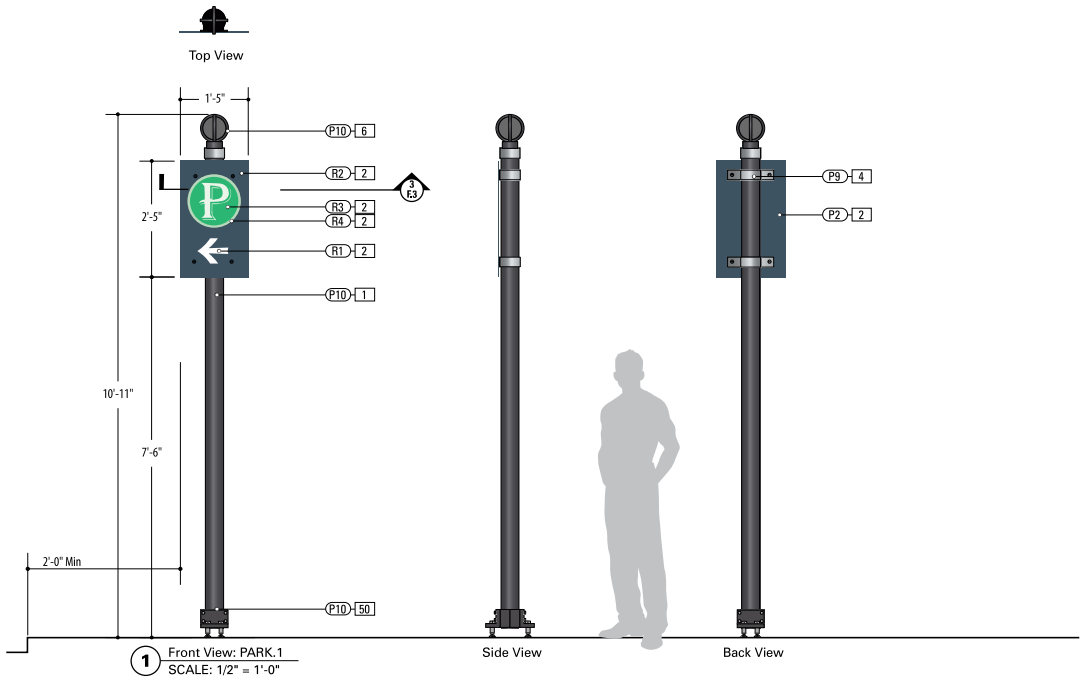
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.

D.15



1 Front View: PARK.1
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** PARK.1 **FUNCTION:** Parking Trailblazer

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. 1/4" SIGN PANEL - REFLECTIVE
   MATERIAL: 1/4" 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 and welded to extrusion, tamper-resistant hardware.
   EDGE & BACK DETAIL: Paint all edges and back with Matthews Acrylic Polyurethane, with clear coat satin finish.

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.

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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

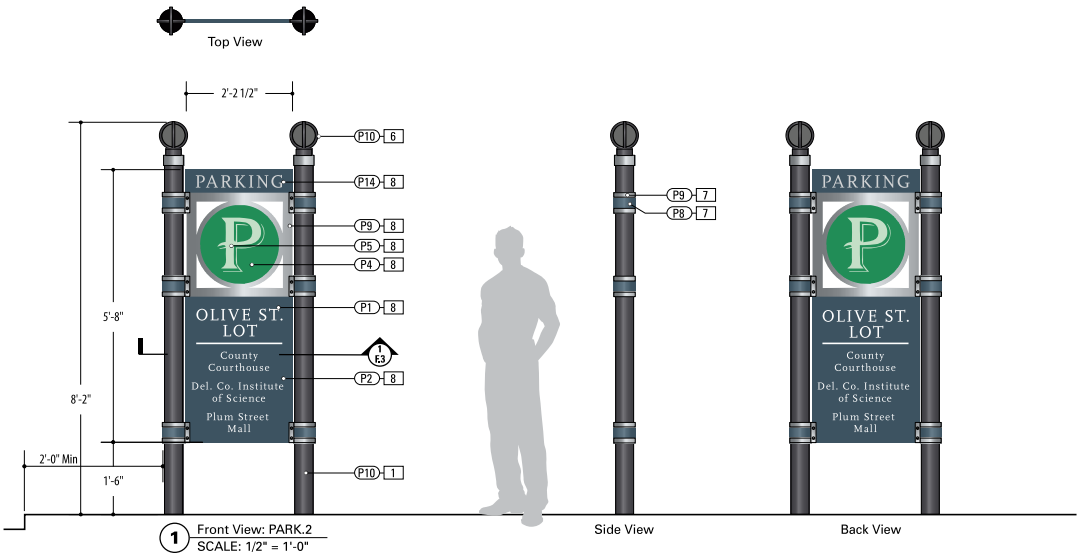
SHEET TITLE
Sign Type PARK.1
Parking Trailblazer

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.16



1 Front View: PARK.2
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** PARK.2 **FUNCTION:** Parking Identification

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.

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.

7. 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.

8. 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.
   FASTENER: Mechanically fastened to Bracket.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

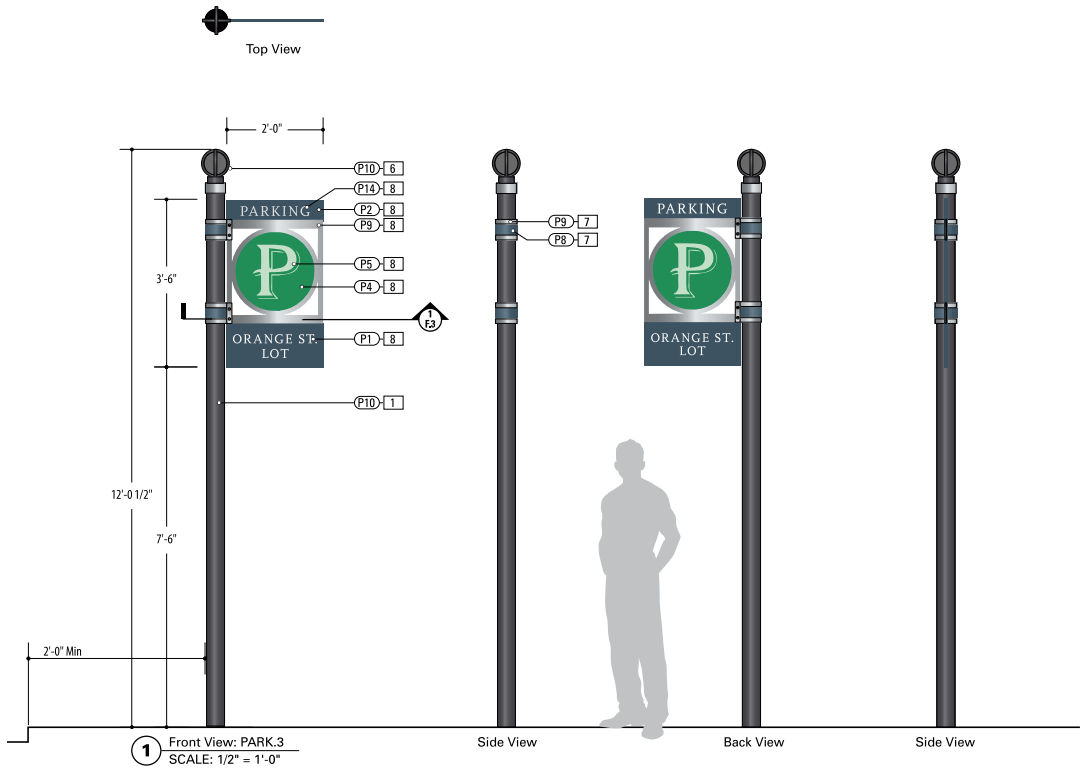
SHEET TITLE
Sign Type PARK.2
Parking Identification

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.17



SPECIFICATIONS **SIGN TYPE:** PARK.3 **FUNCTION:** Parking Identification

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.

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.

7. 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.

8. 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.
   FASTENER: Mechanically fastened to Bracket.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

ENVIRONMENTS & EXPERIENCES

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type PARK.3
Parking Identification

DATE 06/30/16

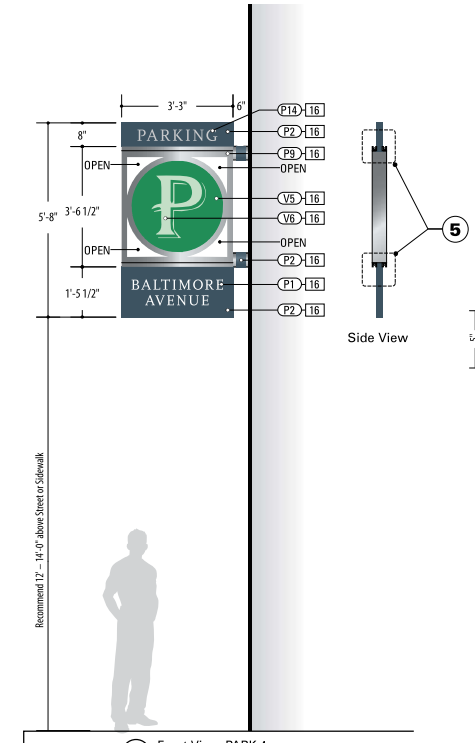
DRAWN BY: LH

REVISIONS

SHEET NO.

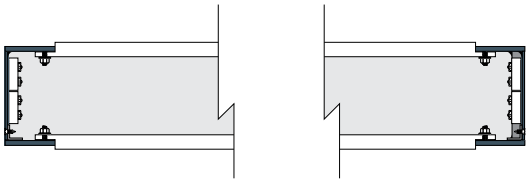
D.18

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 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.

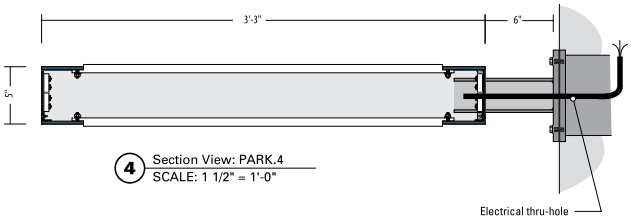


1 Front View: PARK.4
SCALE: 3/8" = 1'-0"

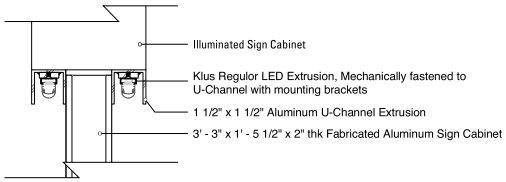
Side View



3 Detail: PARK.4
SCALE: NTS



4 Section View: PARK.4
SCALE: 1 1/2" = 1'-0"



5 Section View: PARK.4
SCALE: 1 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** PARK.4 **FUNCTION:** Flag Parking Garage

16. SIGN STRUCTURE
Material: Aluminum
Process: Fabricated/ Welded
H type construction
Surface Process: Paint as indicated
Color: As indicated in Color Chart
Internal Bracing: As reqd. by sign manufacturers Structural engineer. Fabricators drawings are to be signed and sealed by a certified State of PA licensed Structural Engineer.

SIGN FACE
P - Sign Panel:
Clip Mounting System
Vinyl: 3M Scotchcal Translucent Graphic Film as specified
Diffuser: 3M Diffuser Film as specified
Substrate: Acrylic - or equal
Color: As indicated in Color Chart

Cut Letters: Parking
Material - Aluminum
Finish - Brushed
Mechanically Fastened to Frame

Cut Letters: Baltimore Ave
Material - Aluminum
Finish - Painted
Mechanically Fastened to Frame

INTERNAL LED LIGHT FIXTURE
Lighting Process: Internal Face Lit
Manufacturer: Sylvania LED #OSDC36w2-865-Exterior or approved equal.
Color:White
Fasten: Mount to inside of Logo, provide rear baffle at rear with second row of LEDs.

INTERNAL LED HOUSING
Material: Aluminum
Process: Fabricated/ Welded
H type construction
Surface Process: Paint as indicated
Color: As indicated in Color Chart
Internal Bracing: As reqd. by sign manufacturers Structural engineer. Fabricators drawings are to be signed and sealed by a certified State of Pennsylvania licensed Structural Engineer.

HARDWARE
MOUNTING METHOD: Mechanically Fasten
MATERIAL: Stainless Steel
TYPE: Screw with threaded anchor insert.
SIZE: as determined by Fabricator
MOUNTING SURFACE: Concrete or Brick VIF

EXTERNAL LED LIGHT FIXTURE
Product: KLUS Regular LED Extrusion with Flexible LED Strip. Cut to size.

EXTERNAL LED HOUSING
Material: 1.5" Aluminum U-Channel
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 fasten to sign cabinet

*Fabricator shall VIF all measurements in field

Fabricator/Installer Shall remove existing signs and repair surface as requird per city specifications.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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CLIENT / PROJECT
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Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

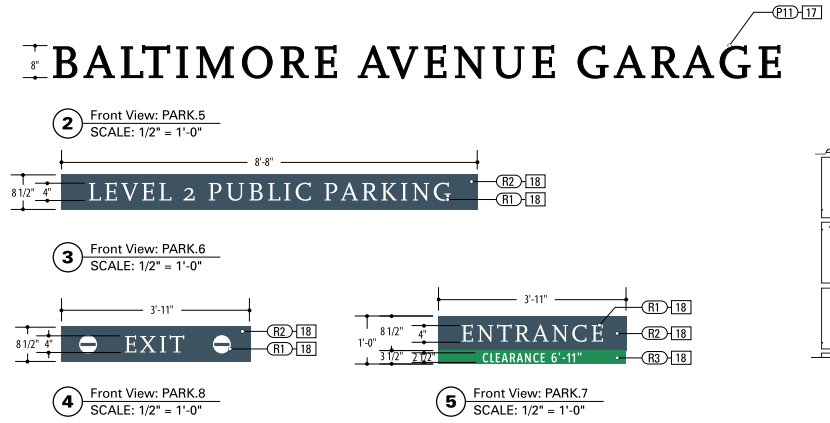
SHEET TITLE
Sign Type PARK.4
Flag Parking Garage Sign

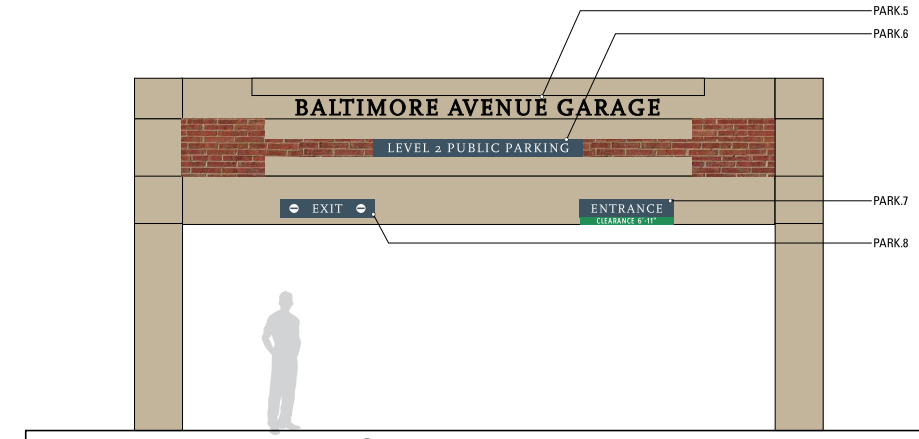
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.19





1 Front View: PARK.5-8
SCALE: 1/4" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** PARK.5-8 **FUNCTION:** Parking Garage Signs

17. LETTERS
    Size: 3/8" Thk.
    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 fasten to existing wall. Anchor suitable for wall material.

18. SIGN PANEL
    MATERIAL: 1/4" 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 existing structure. Anchor Suitable for wall material.

    MOUNTING SURFACE: Concrete or Brick VIF

    *Fabricator shall VIF all measurements in field

    Fabricator/Installer Shall remove existing signs and repair surface as requird per city specifications.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

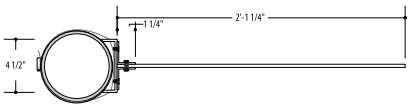
SHEET TITLE
Sign Type PARK.5-8
Parking Garage Signs

DATE 06/30/16

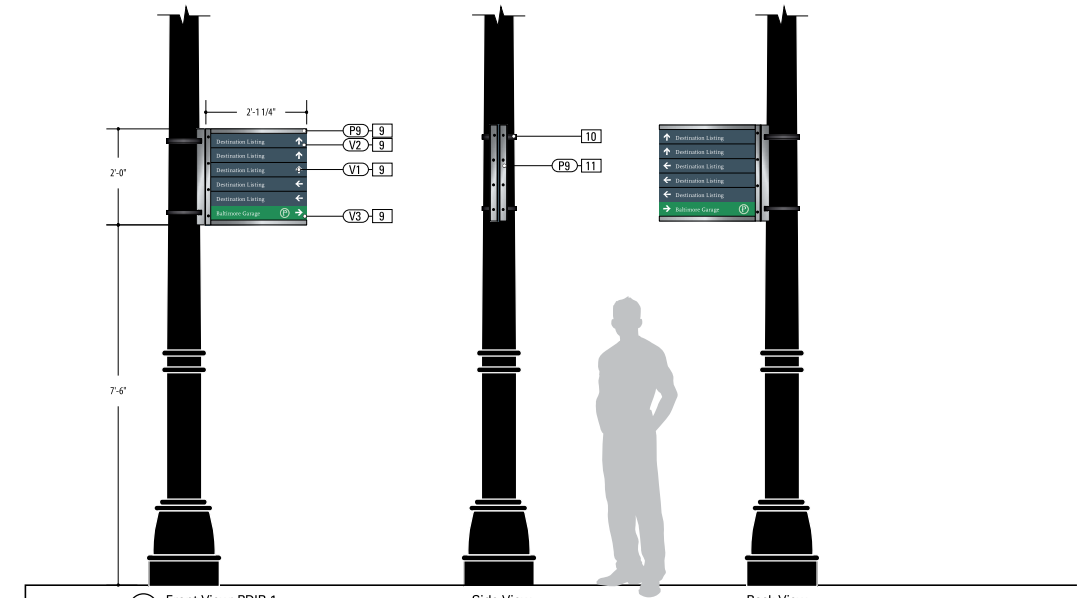
DRAWN BY: LH

REVISIONS

SHEET NO.
D.20



Top View
SCALE: 1 1/2" = 1'-0"



1 Front View: PDIR.1
SCALE: 1/2" = 1'-0"

Side View

Back View

SPECIFICATIONS **SIGN TYPE:** PDIR.1 **FUNCTION:** Pedestrian Directional

9. 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 bracket with L-Angle.
COPY PANEL
GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Scotchcal ® #3690 with 3M approved UV/Graffiti Vinyl Overlaminate.
(See Color Sheet for all color and material specifications)

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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

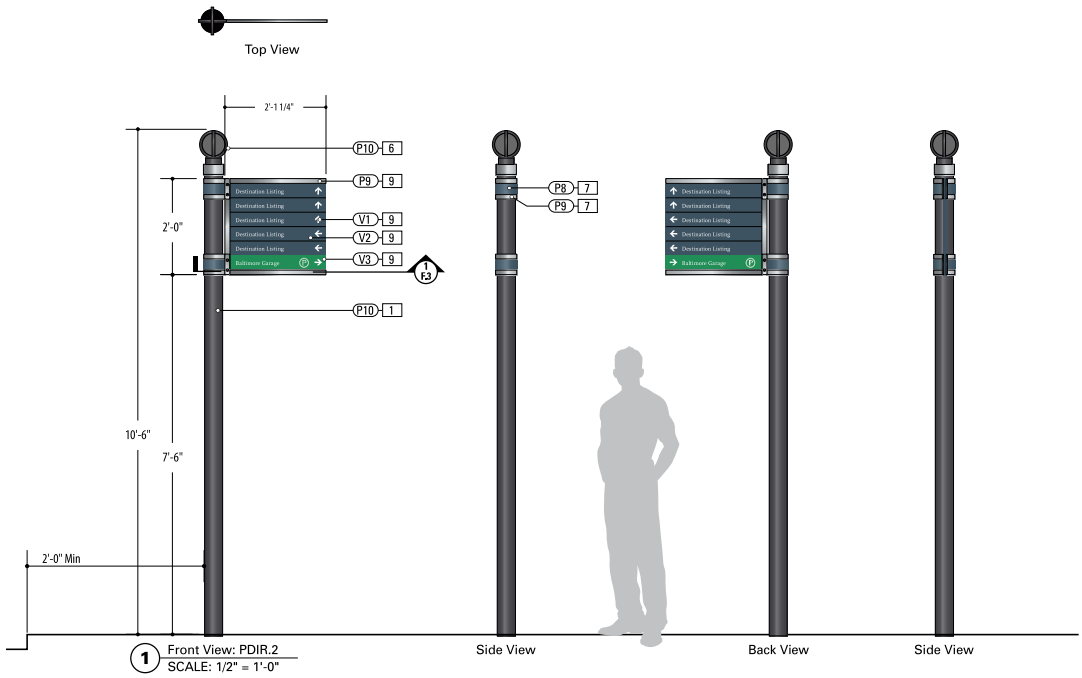
SHEET TITLE
Sign Type PDIR.1
Pedestrian Directional

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.21



1 Front View: PDIR.2
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** PDIR.2 **FUNCTION:** Pedestrian 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.

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.

7. 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.

9. 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 fasten to post with bracket.
   COPY PANEL
   GRAPHIC BACKGROUND AND COPY PROCESS: 3M custom inks print direct to Scotchcal ® #3690 with 3M approved UV/Graffiti Vinyl Overlaminate.(See Color Sheet for all color and material specifications)

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

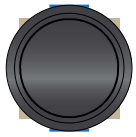
SHEET TITLE
Sign Type PDIR.2
Pedestrian Directional

DATE 06/30/16

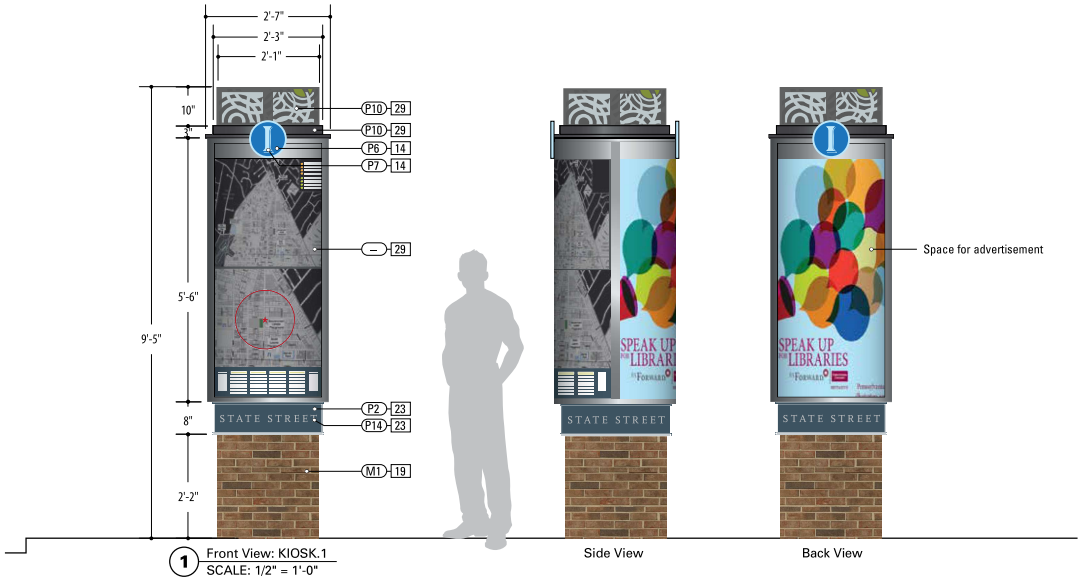
DRAWN BY: LH

REVISIONS

SHEET NO.
D.22



Top View



1 Front View: KIOSK.1
SCALE: 1/2" = 1'-0"

Side View

Back View

SPECIFICATIONS **SIGN TYPE:** KIOSK.1 **FUNCTION:** Pedestrian Kiosk

14. SIGN PANEL
MATERIAL: 1/4" thk. alum. 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.
FASTENER: Mech. Fasten to Base
LETTERS: 3/8" thk 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

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

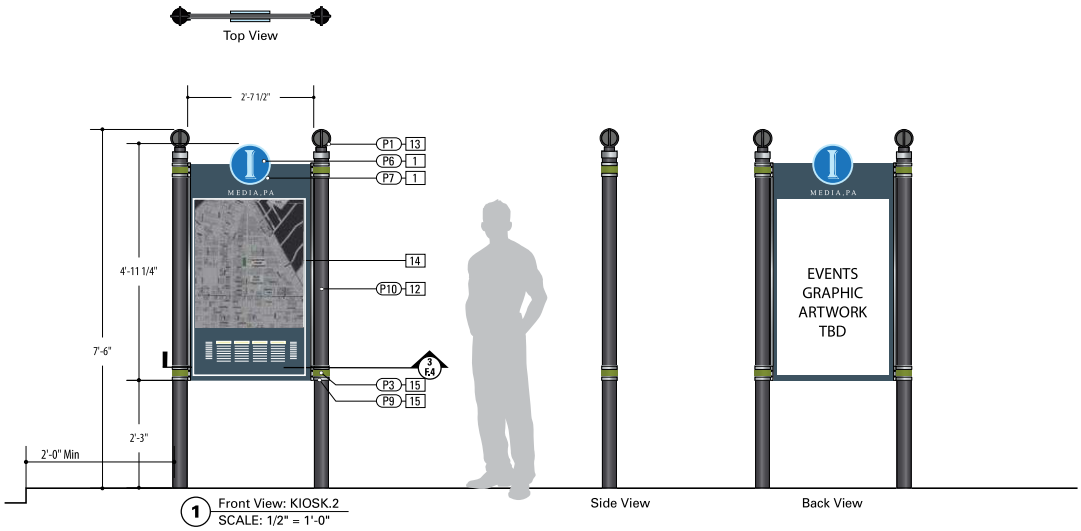
SHEET TITLE
Sign Type KIOSK.1
Pedestrian Kiosk

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.23



SPECIFICATIONS **SIGN TYPE:** KIOSK.2 **FUNCTION:** Pedestrian Kiosk

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" 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.

14. SIGN PANEL
MATERIAL: 1/4" thk. alum. panel
FABRICATION PROCESS: Router Cut - Slides from top between Frame Window.
EDGES: Square, Smooth
SIDE A - SURFACE PRINT PROCESS: Zero VOC Powdercoat
Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel
Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

SIDE B - GRAPHIC BACKGROUND AND COPY PROCESS:
3M custom inks print direct to Scotchcal ® #3690 with 3M approved UV/Graffiti Vinyl Overlaminate.

Side A: MAP
Side B: EVENTS

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.
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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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PROJECT NO.

SUBCONSULTANT

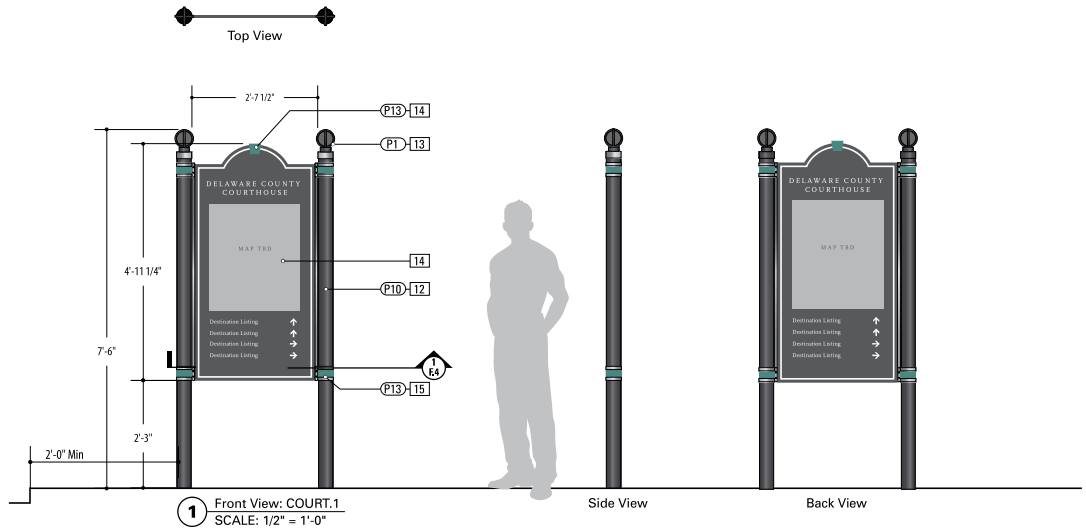
SHEET TITLE
Sign Type KIOSK.2
Pedestrian Kiosk

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.24



1 Front View: COURT.1
SCALE: 1/2" = 1'-0"

SPECIFICATIONS **SIGN TYPE:** COURT.1 **FUNCTION:** Courthouse Kiosk

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" 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.

14. SIGN PANEL
    MATERIAL: 1/4" thk. alum. panel
    FABRICATION PROCESS: Router Cut
    EDGES: Square, Smooth
    SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

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.
    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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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CLIENT / PROJECT
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PROJECT NO.

SUBCONSULTANT

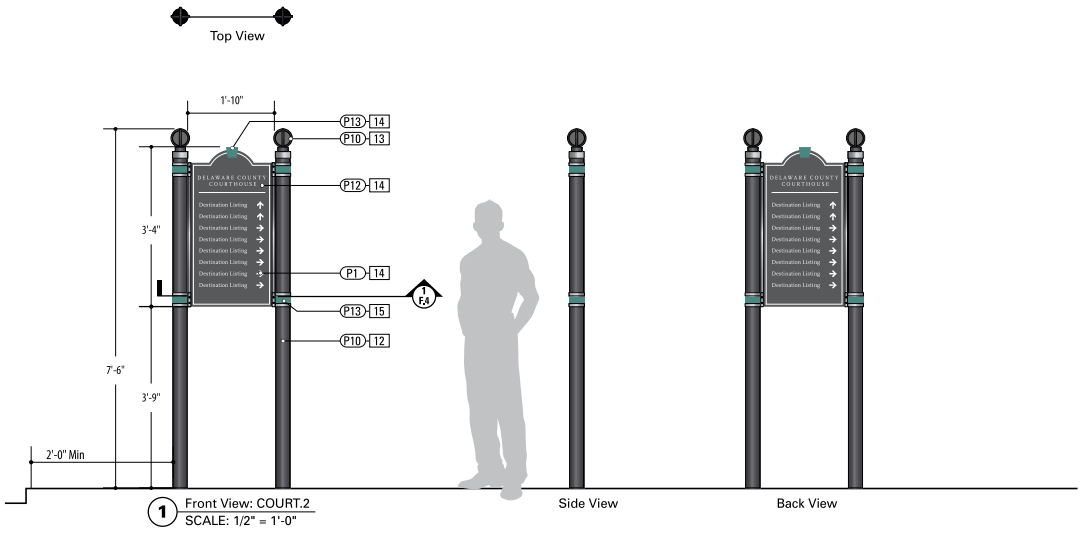
SHEET TITLE
Sign Type COURT.1
Courthouse Kiosk

DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.25



SPECIFICATIONS **SIGN TYPE:** Courthouse **FUNCTION:** Courthouse Ped. Dir.

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" 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.

14. SIGN PANEL
    MATERIAL: 1/4" thk. alum. panel
    FABRICATION PROCESS: Router Cut
    EDGES: Square, Smooth
    SURFACE PRINT PROCESS: Zero VOC Powdercoat Primer w/ Water Based Custom Dye Sublimated Ink Transfer Print on Face + Back of Panel
    Clear UV-Resistant, Anti-Graffiti Powdercoat Topcoat, Matte/Satin Finish (Per Manufacturer Capabilities)

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.
    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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE

Sign Type COURT.2
Courthouse Pedestrian Directional

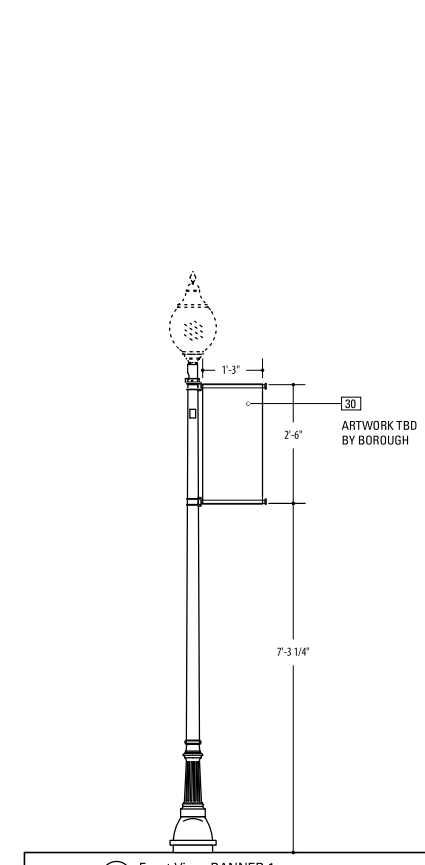
DATE 06/30/16

DRAWN BY: LH

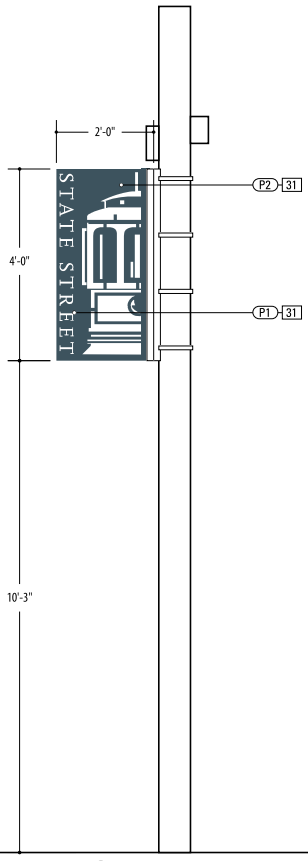
REVISIONS

SHEET NO.

D.26



1 Front View: BANNER.1
SCALE: 1/2" = 1'-0"



2 Front View: BANNER.2
SCALE: 1/2" = 1'-0"

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-rolled and double lock stitched. Brass-spurred grommets are applied to the 2 inside corners locking the hem and providing security at stress points.
ATTACHMENT: Slide banner pole pockets onto bracket fiberglass rods. 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 (spring loaded wind release brackets).
MATERIAL: Two-piece cast aluminum base with patented absorption spring. 3/4" removable fiberglass banner arm with tempered aluminum sleeve.
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

NOTES

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Wayfinding and Signage System

PROJECT NO.

SUBCONSULTANT

SHEET TITLE
Sign Type BANNER.1-2 Banner

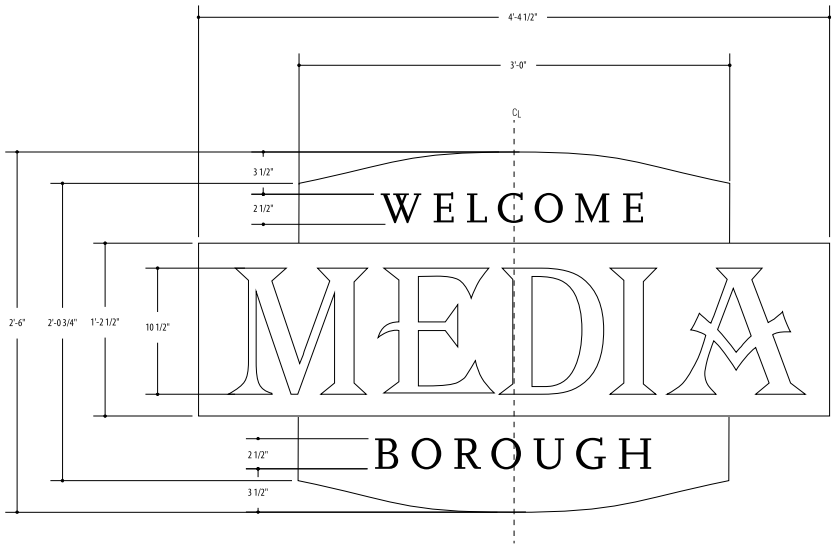
DATE 06/30/16

DRAWN BY: LH

REVISIONS

SHEET NO.
D.27

E | Graphic Layouts



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

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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Media Borough, PA
Wayfinding and Signage System

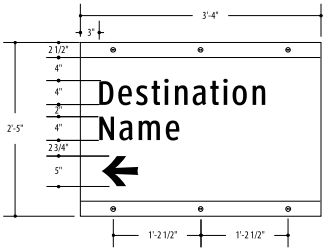
PROJECT NO.

SHEET TITLE

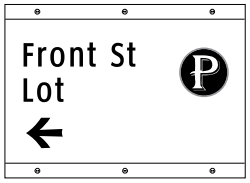
GATE.2
Layout Drawings

SHEET NO.

E.1

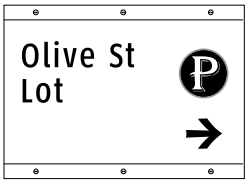


1 Graphic Layout: VDIR.1
SCALE: 3/4" = 1'-0"



Location 105

Location 106



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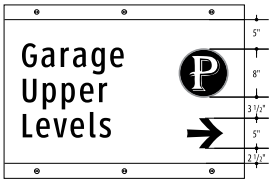
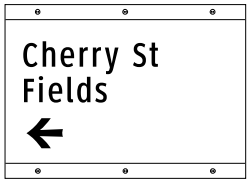


Location 116

Location 120



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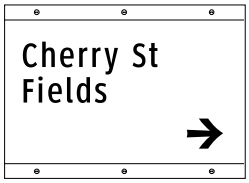

Location 136

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

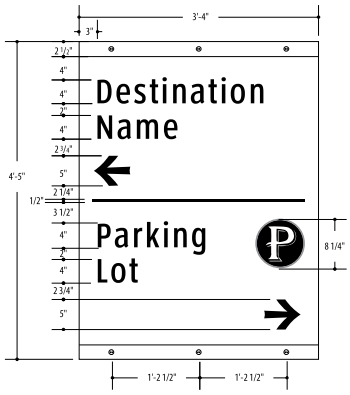
PROJECT NO.

SHEET TITLE

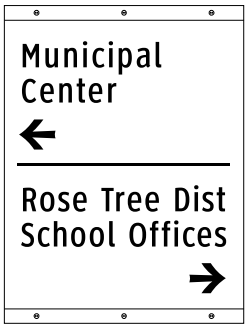
VDIR.1
Graphic Layouts

SHEET NO.

E.2



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



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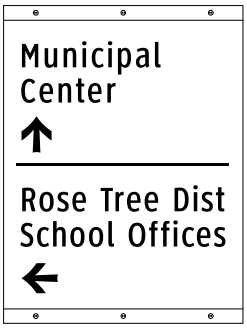

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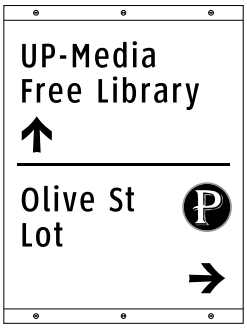

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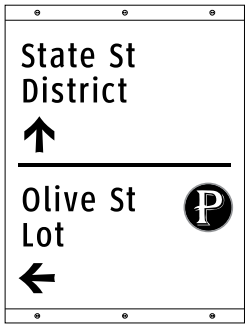

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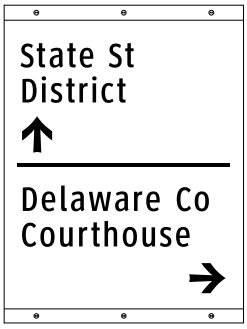

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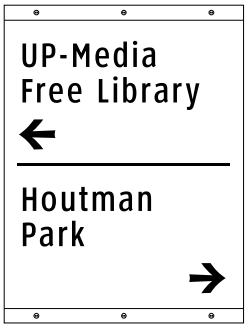

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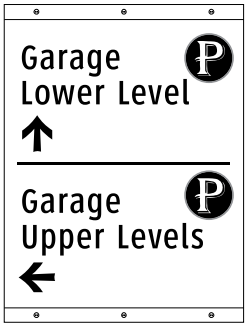

Location 117

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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DATE 06/30/16

DRAWN BY: LH

REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

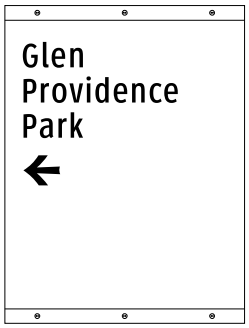
PROJECT NO.

SHEET TITLE

VDIR.2
Graphic Layouts

SHEET NO.

E.3



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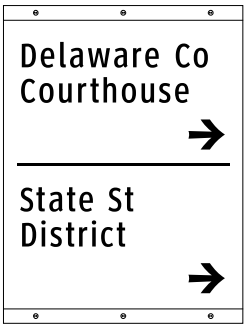

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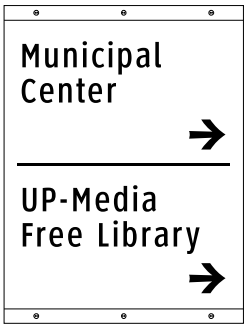
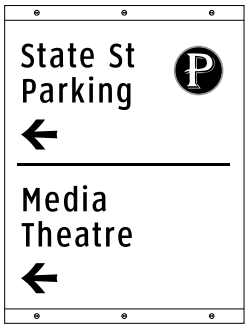


Location 127



Location 129

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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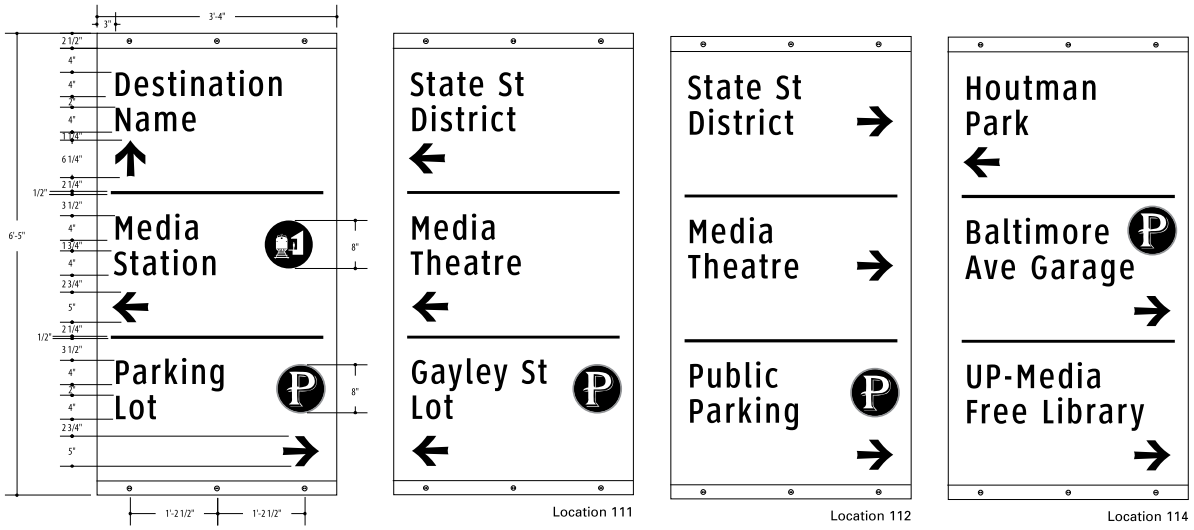
SHEET TITLE

VDIR.2
Graphic Layouts

SHEET NO.

E.4



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

SPECIFICATIONS

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Media Borough, PA
Wayfinding and Signage System

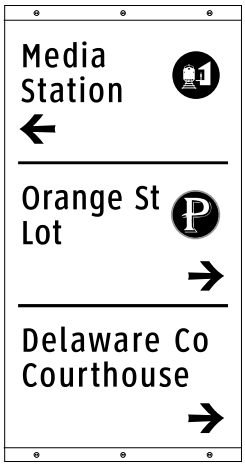
PROJECT NO.

SHEET TITLE

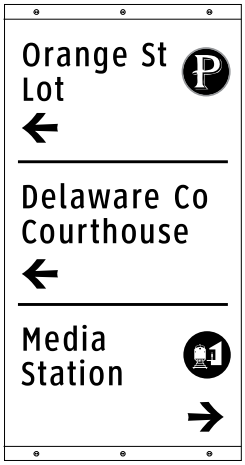
VDIR.3
Graphic Layouts

SHEET NO.

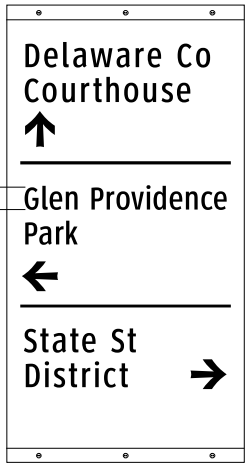
E.5



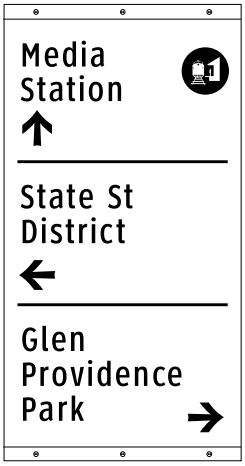
Location 118



Location 119



Location 121



Location 122

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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Media Borough, PA
Wayfinding and Signage System

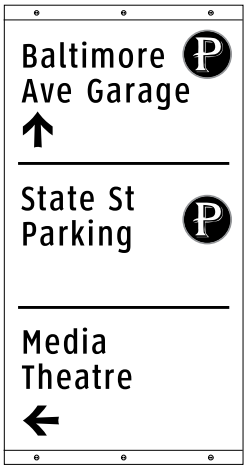
PROJECT NO.

SHEET TITLE

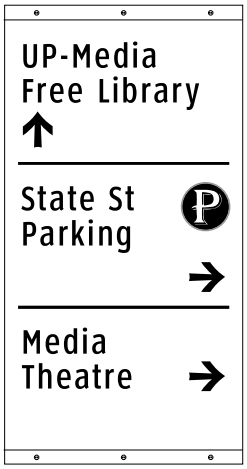
VDIR.3
Graphic Layouts

SHEET NO.

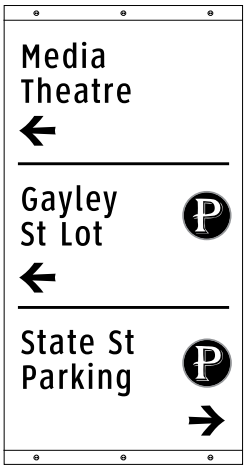
E.6



Location 128



Location 130



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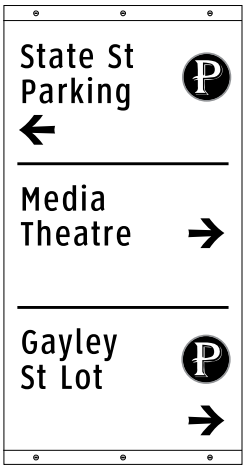

Location 132

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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Media Borough, PA
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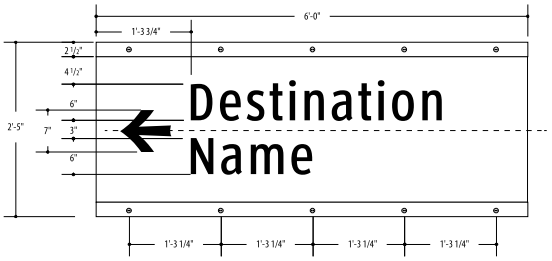
SHEET TITLE

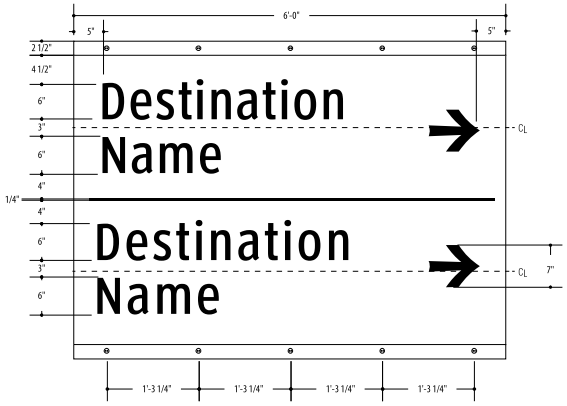
VDIR.3
Graphic Layouts

SHEET NO.

E.7



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



1 Graphic Layout: VDIR.5
SCALE: 3/4" = 1'-0"

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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DATE
06/30/16

DRAWN BY:
LH

REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

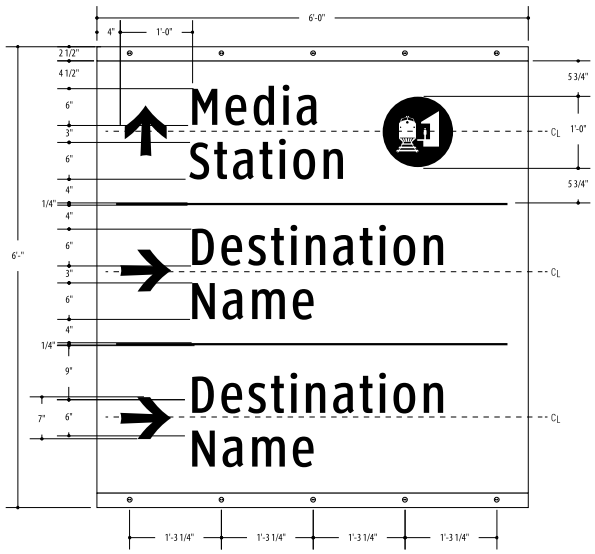
PROJECT NO.

SHEET TITLE

VDIR.4-5
Graphic Layouts

SHEET NO.

E.8



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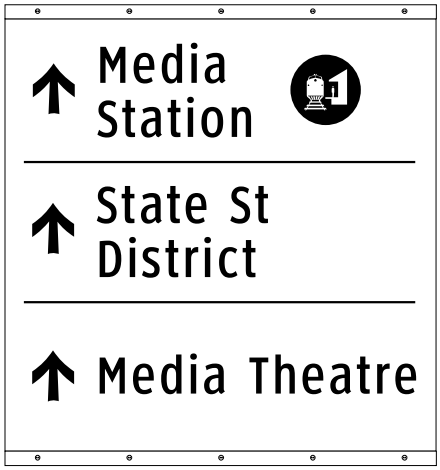
SCALE: 3/4" = 1'-0"



Location 207

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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DATE 06/30/16

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

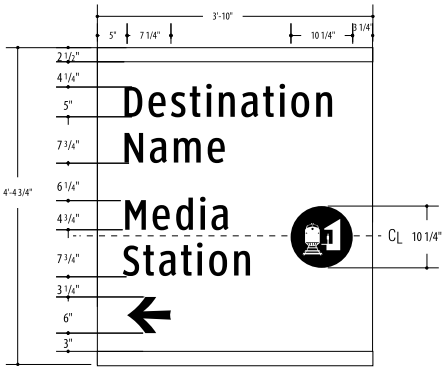
PROJECT NO.

SHEET TITLE

VDIR.6
Graphic Layouts

SHEET NO.

E.9

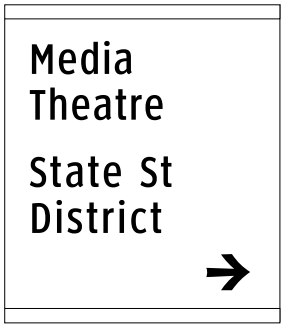


1 Graphic Layout: VDIR.7
SCALE: 3/4" = 1'-0"

Location 133

Location 134

Location 201



Location 203

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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Media Borough, PA
Wayfinding and Signage System

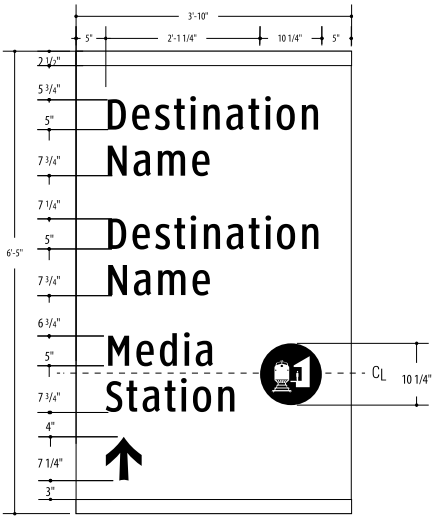
PROJECT NO.

SHEET TITLE

VDIR.7
Graphic Layouts

SHEET NO.

E.10



1 Graphic Layout: VDIR.8
SCALE: 3/4" = 1'-0"

Location 200

Location 206

SPECIFICATIONS

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

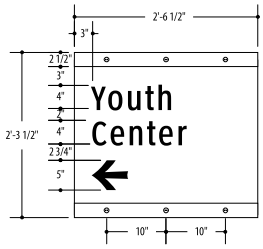
PROJECT NO.

SHEET TITLE

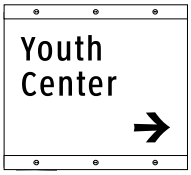
VDIR.8
Graphic Layouts

SHEET NO.

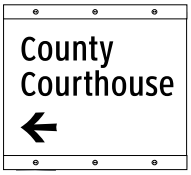
E.11



Location 100

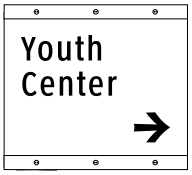


Location 101

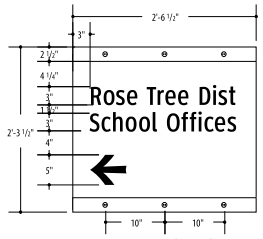


Location 107

Location 125



Location 202



Location 126

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

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

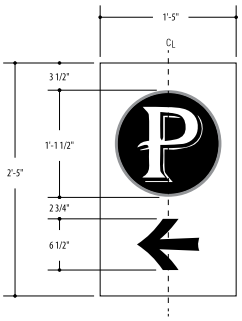
PROJECT NO.

SHEET TITLE

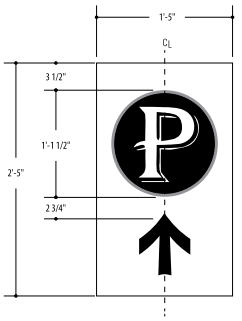
RES.1
Graphic Layouts

SHEET NO.

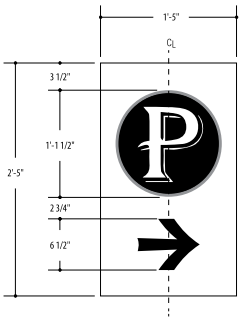
E.12



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



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



3 Graphic Layout: PARK.1
SCALE: 1" = 1'-0"

SPECIFICATIONS

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Media Borough, PA
Wayfinding and Signage System

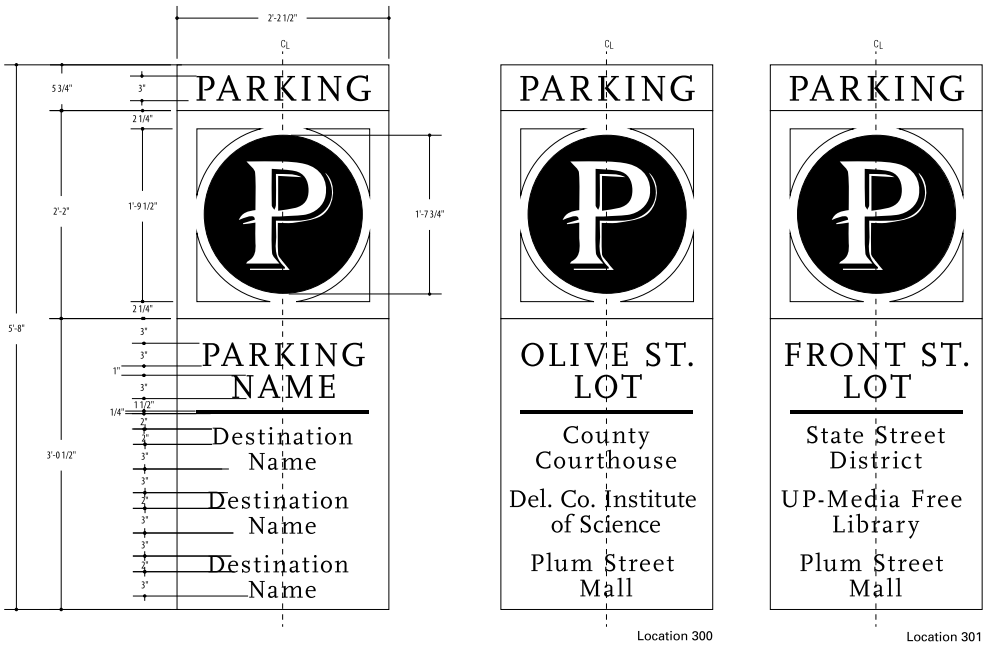
PROJECT NO.

SHEET TITLE

PARK.1
Graphic Layouts

SHEET NO.

E.13



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

SPECIFICATIONS

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

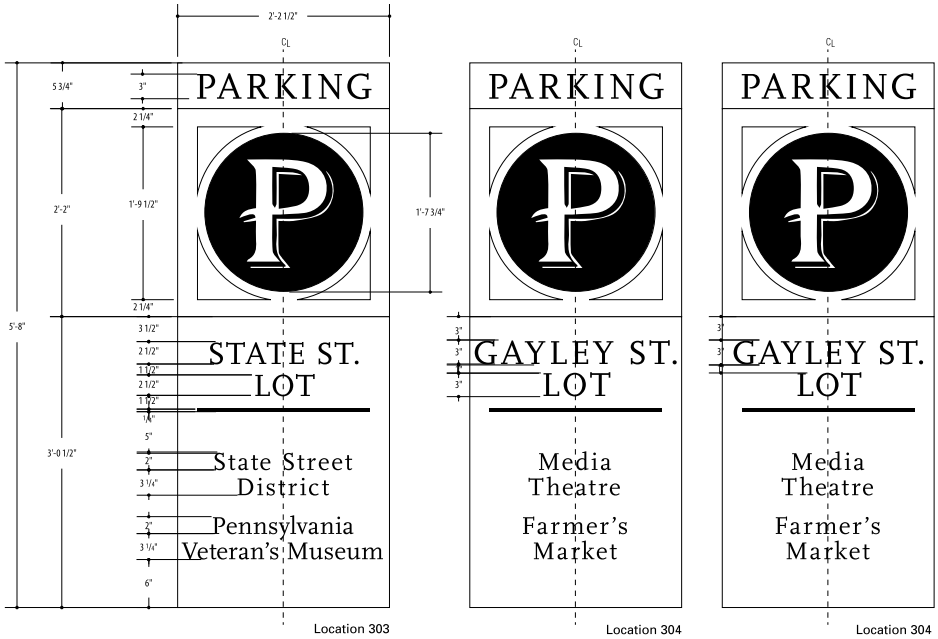
PROJECT NO.

SHEET TITLE

PARK.2
Graphic Layouts

SHEET NO.

E.14



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

SPECIFICATIONS

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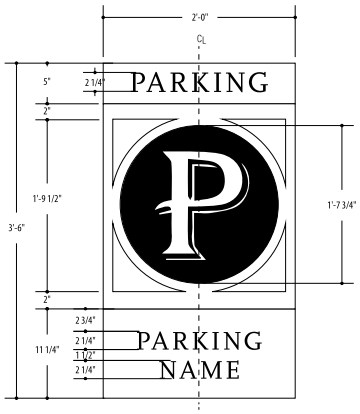
Media Borough, PA
Wayfinding and Signage System

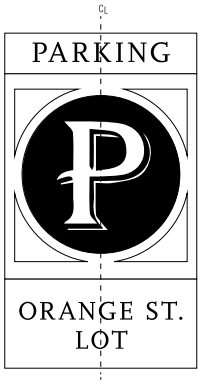
PROJECT NO.

SHEET TITLE
PARK.2
Graphic Layouts

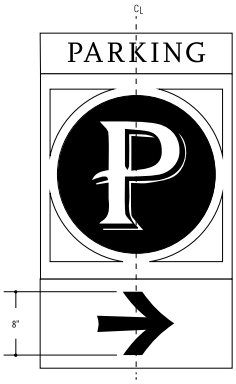
SHEET NO.
E.15



1 Graphic Layout: PARK.3
SCALE: 1" = 1'-0"



Location 306



Location 302

SPECIFICATIONS

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

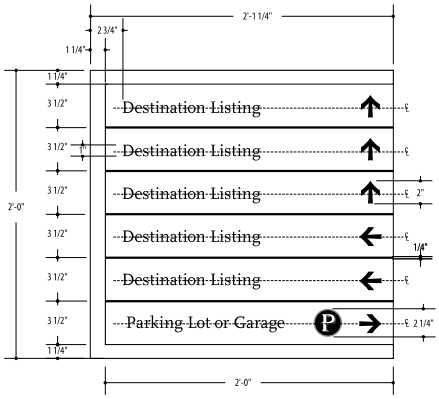
PROJECT NO.

SHEET TITLE

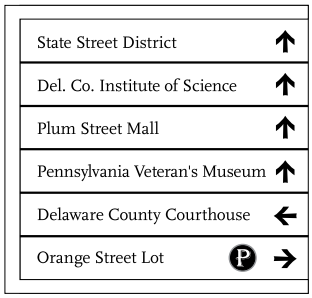
PARK.3
Graphic Layout

SHEET NO.

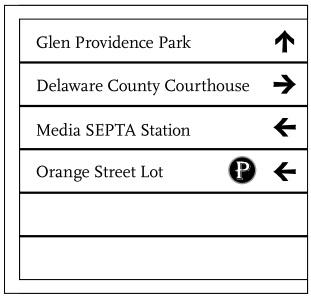
E.16



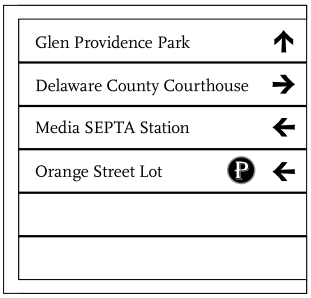
1 Graphic Layout: PDIR.1 & 2
SCALE: 1 1/2" = 1'-0"



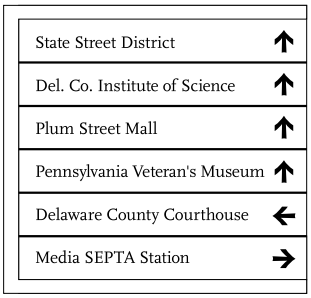
Location 500
Side A



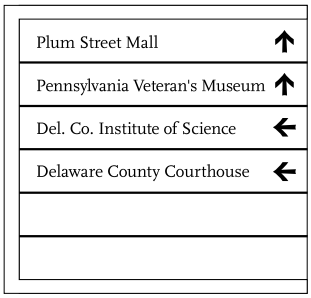
Location 500
Side B



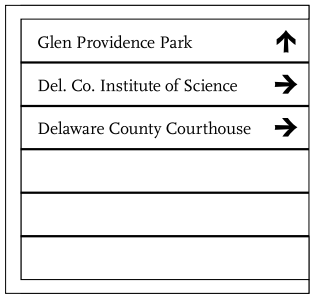
Location 501
Side A



Location 501
Side B



Location 502
Side A



Location 502
Side B

SPECIFICATIONS

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

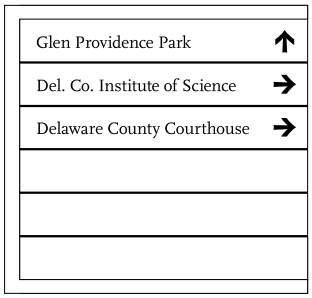
PROJECT NO.

SHEET TITLE

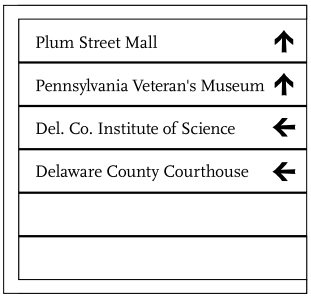
PDIR.1-2
Graphic Layouts

SHEET NO.

E.17

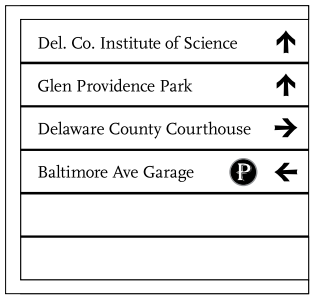


Location 503
Side A

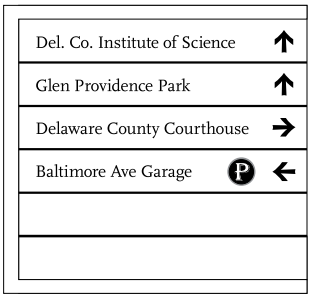


Location 503
Side B

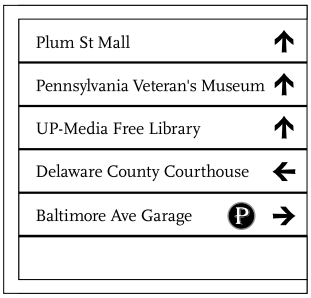
Location 504
Side A



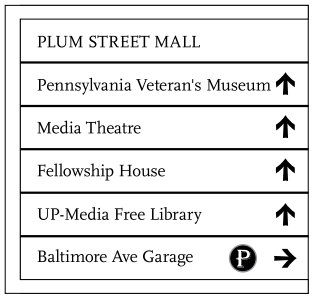
Location 504
Side B



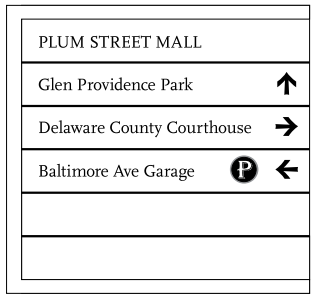
Location 505
Side A



Location 505
Side B



Location 506
Side A



Location 506
Side B

SPECIFICATIONS

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

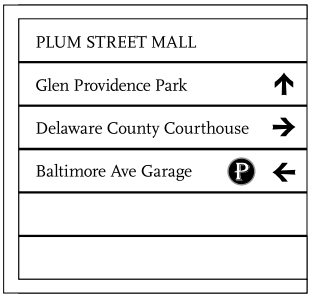
PROJECT NO.

SHEET TITLE

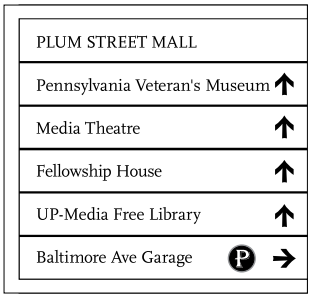
PDIR.1-2
Graphic Layouts

SHEET NO.

E.18

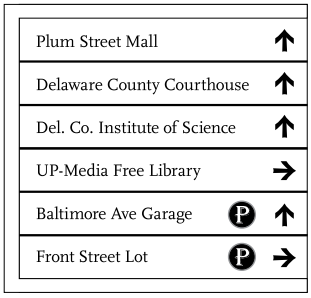


Location 507
Side A

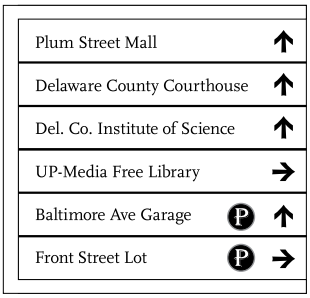


Location 507
Side B

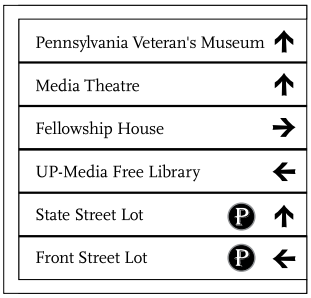
Location 509
Side A



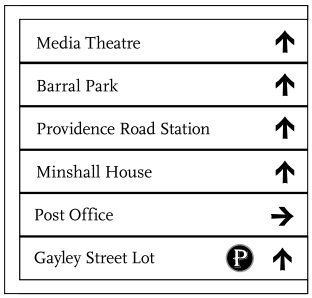
Location 509
Side B



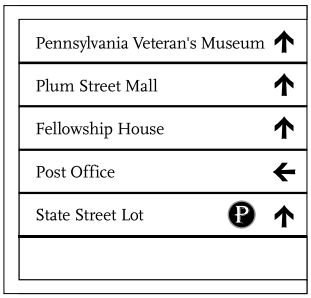
Location 510
Side A



Location 510
Side B



Location 512
Side A



Location 512
Side B

SPECIFICATIONS

SIGN PANEL LAYOUTS:

NOTES:

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

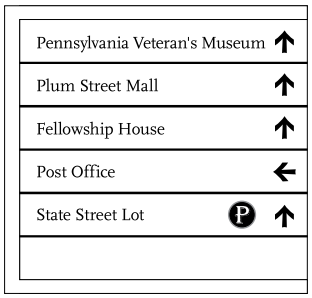
PROJECT NO.

SHEET TITLE

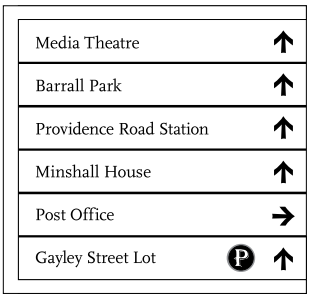
PDIR.1-2
Graphic Layouts

SHEET NO.

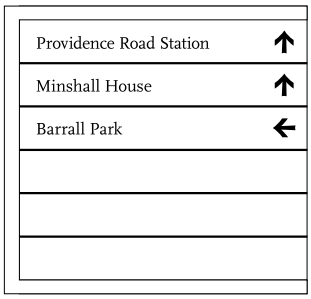
E.19



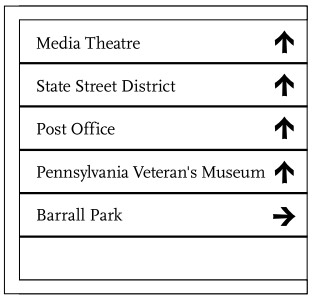
Location 513
Side A



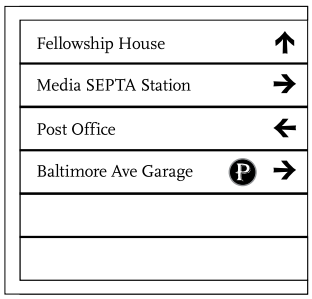
Location 513
Side B



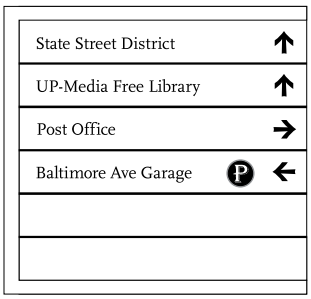
Location 514
Side A



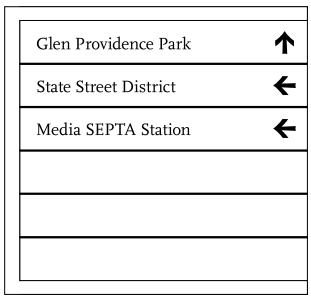
Location 514
Side B



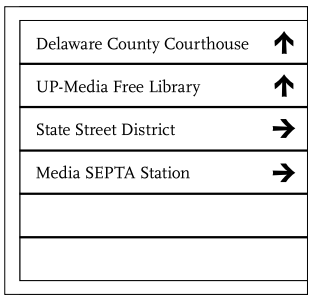
Location 519
Side A



Location 519
Side B



Location 520
Side A



Location 520
Side B

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

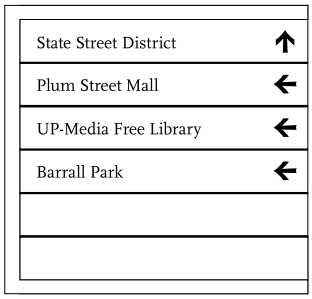
PROJECT NO.

SHEET TITLE

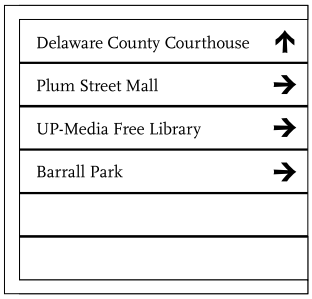
PDIR.1-2
Graphic Layouts

SHEET NO.

E.20



Location 523
Side A



Location 523
Side B

SPECIFICATIONS

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Media Borough, PA
Wayfinding and Signage System

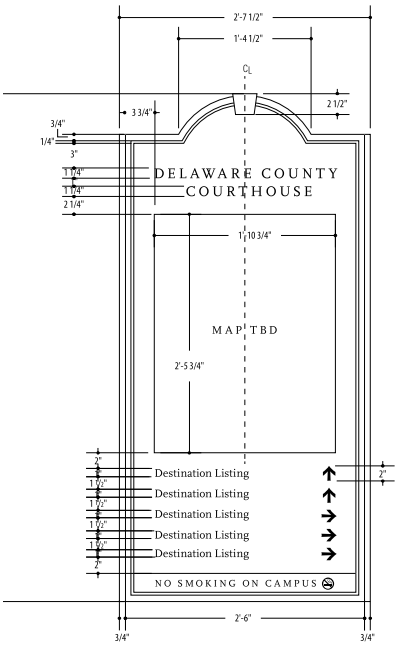
PROJECT NO.

SHEET TITLE

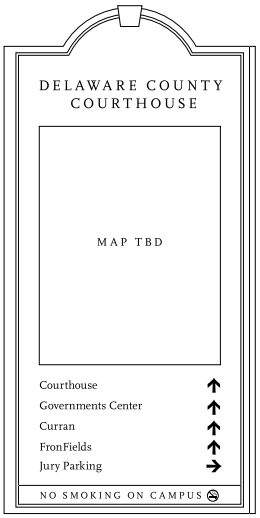
PDIR.1-2
Graphic Layouts

SHEET NO.

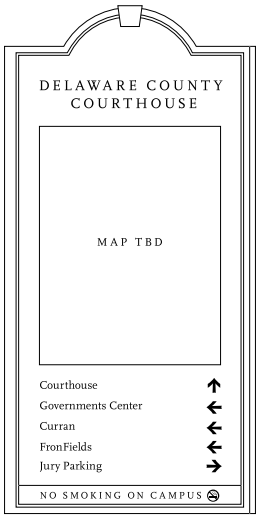
E.21



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



Location 608



Location 609

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

COURT.1
Graphic Layouts

SHEET NO.

E.22

Location 610

SPECIFICATIONS

SIGN PANEL LAYOUTS:

NOTES:

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Media Borough, PA
Wayfinding and Signage System

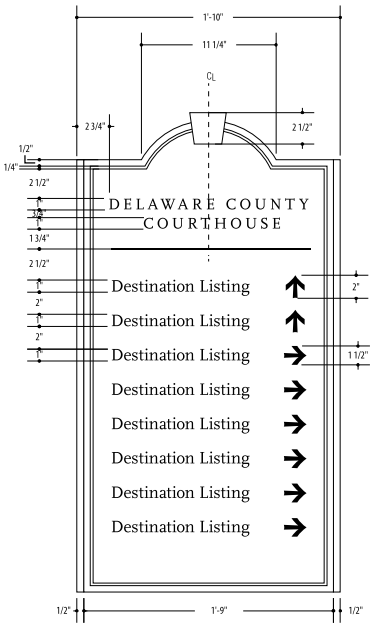
PROJECT NO.

SHEET TITLE

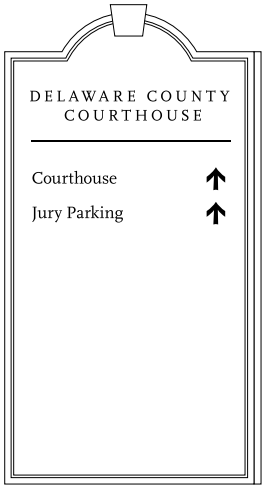
COURT.1
Graphic Layouts

SHEET NO.

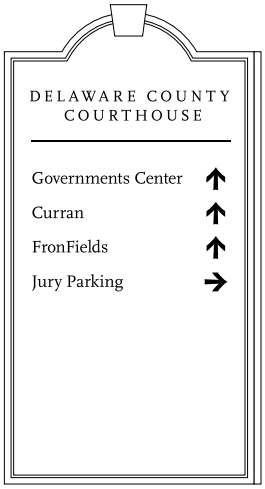
E.23



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



Location 525
Side A



Location 525
Side B

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

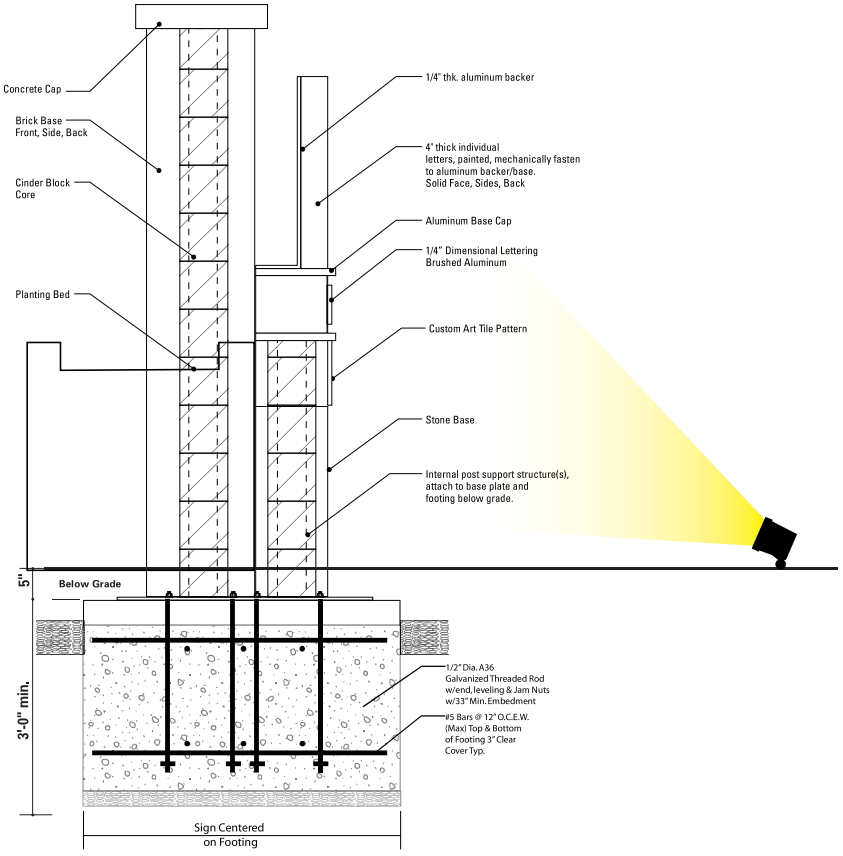
SHEET TITLE

COURT.2
Graphic Layouts

SHEET NO.

E.24

F | Construction Details



SPECIFICATIONS

Construction Details

Sign Type:
GATE.2

NOTES:
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Media Borough, PA
Wayfinding and Signage System

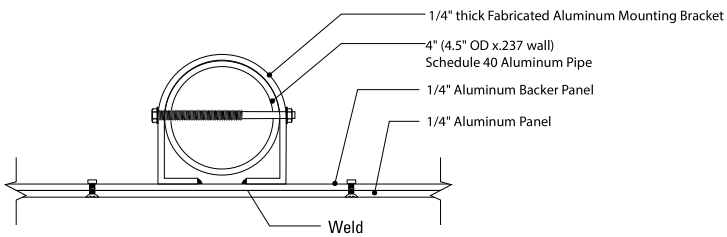
PROJECT NO.

SHEET TITLE

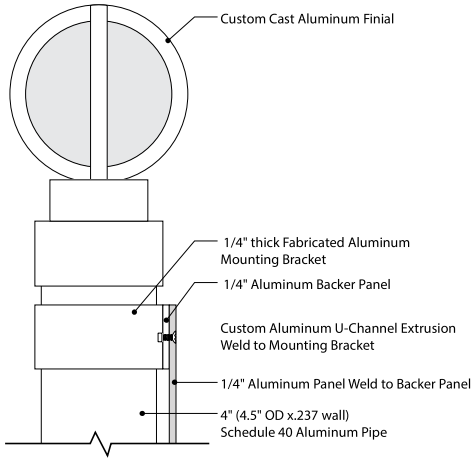
GATE.1
Section Details

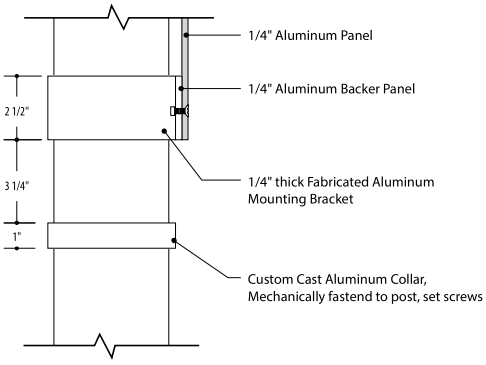
SHEET NO.

F.1



1 Section View: VDIR.1-8
SCALE: 3" = 1'-0"





SPECIFICATIONS

Construction Details

Sign Type:
VDIR.1
VDIR.2
VDIR.3
VDIR.4
VDIR.5
VDIR.6
VDIR.7
VDIR.8

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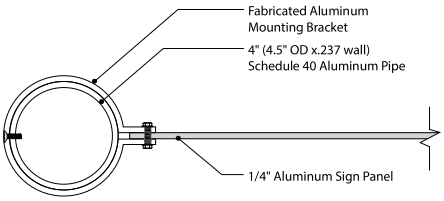
Media Borough, PA
Wayfinding and Signage System

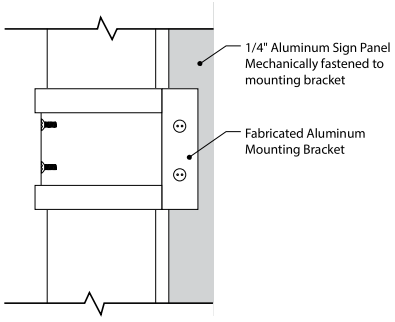
PROJECT NO.

SHEET TITLE
VDIR.1-8
Section Details

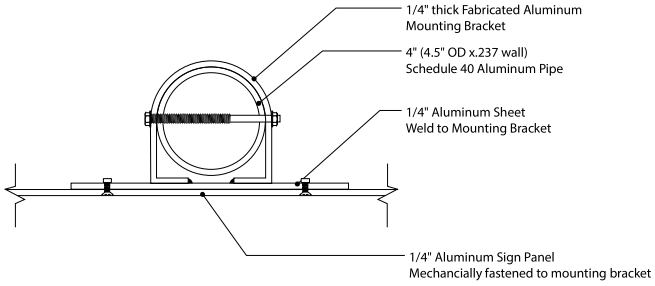
SHEET NO.
F.2



1 Section View: PARK.2-3, PDIR.2
SCALE: 3" = 1'-0"



2 Collar Detail: PARK.2-3, PDIR.2
SCALE: 3" = 1'-0"



3 Section View: PARK.1
SCALE: 3" = 1'-0"

SPECIFICATIONS

Construction Details

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

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DATE 06/30/16

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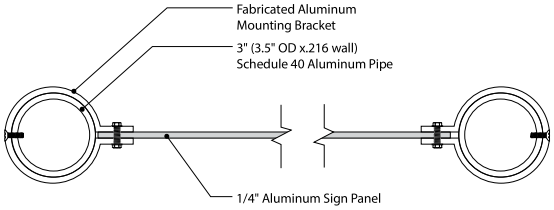
REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

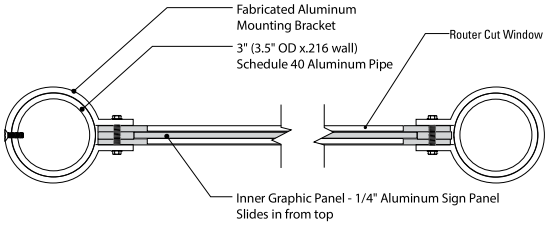
PROJECT NO.

SHEET TITLE
PARK.1-3 & PDIR.2
VSection Details

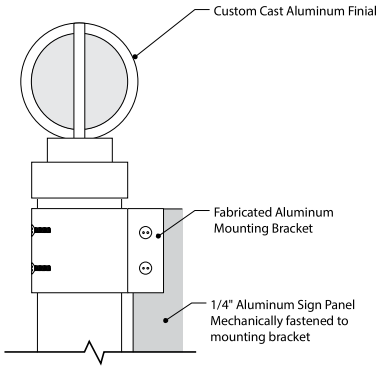
SHEET NO.
F.3



1 Section View: COURT.1-2
SCALE: 3" = 1'-0"



3 Section View: KIOSK.2
SCALE: 3" = 1'-0"



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

SPECIFICATIONS

Construction Details

Sign Type:
COURT.1
COURT.2
KIOSK.2

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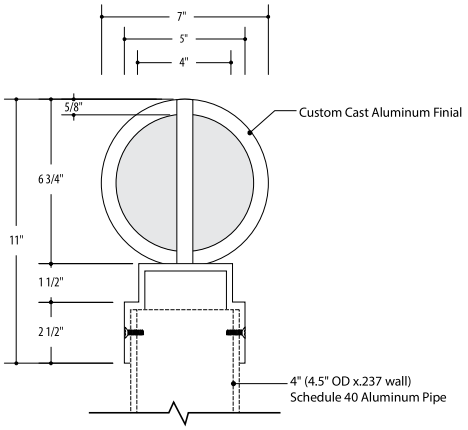
Media Borough, PA
Wayfinding and Signage System

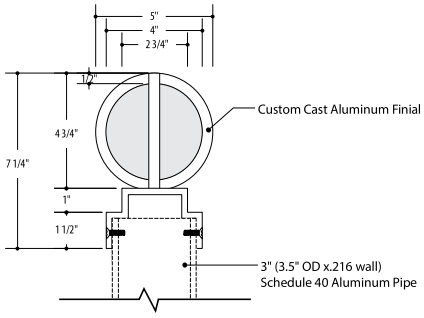
PROJECT NO.

SHEET TITLE
COURT.1-2, KIOSK.2
Section Details

SHEET NO.
F.4



1 4" Pole Finial Details
SCALE: 3" = 1'-0"



2 3" Pole Finial Details
SCALE: 3" = 1'-0"

SPECIFICATIONS

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3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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

DATE 06/30/16

DRAWN BY: LH

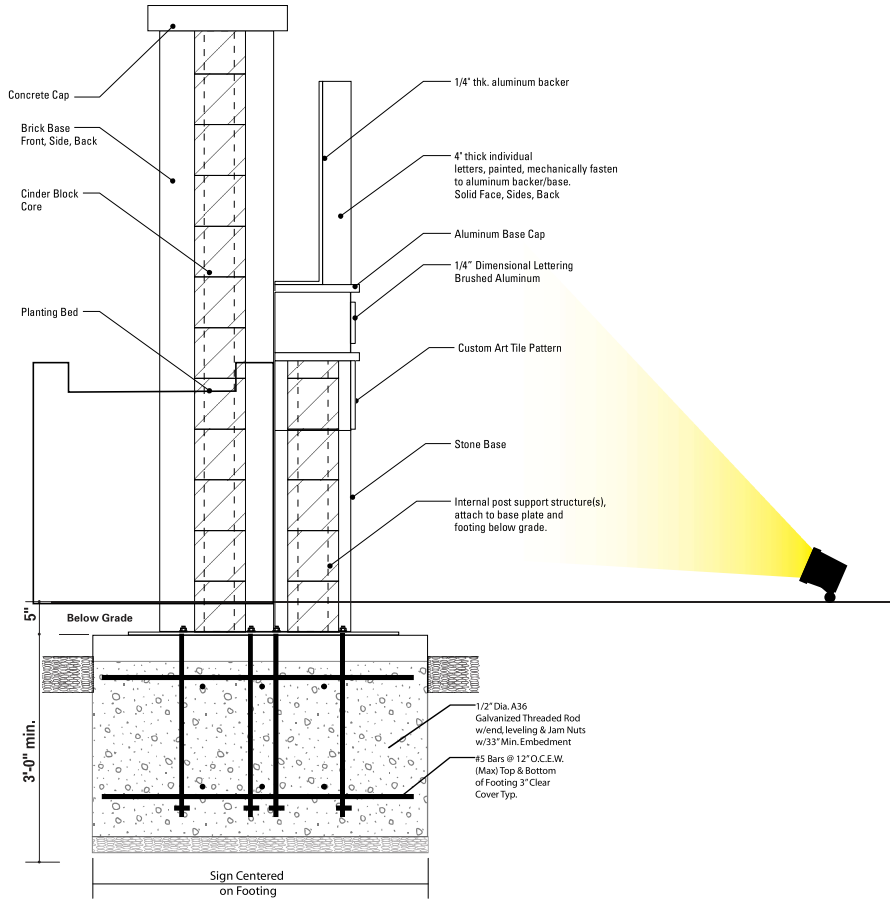
REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
Finial Details

SHEET NO.
F.5



SPECIFICATIONS

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 3,000 POUNDS PER SQUARE FOOT. SOIL UNIT WEIGHT OF 125 PCF AND FRICTION ANGLE OF 30 DEGREES (ASSUMED).

2) CONCRETE STRENGTH AT 28 DAYS F'C=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 DRAWING SHEETS.

NOTES:

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DRAWN BY:
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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

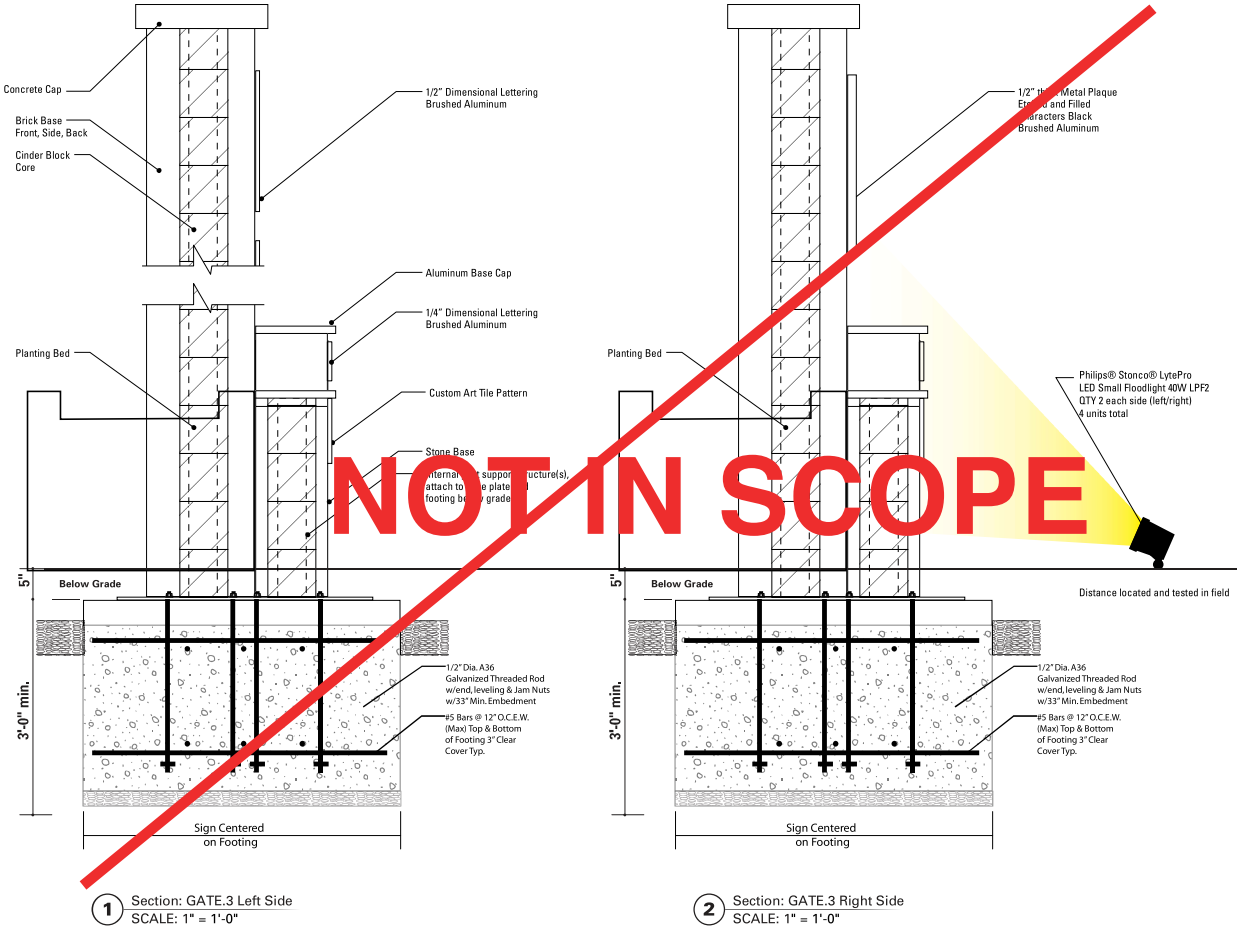
PROJECT NO.

SHEET TITLE

GATE.1
Construction Details

SHEET NO.

F.6



NOT IN SCOPE

1 Section: GATE.3 Left Side
SCALE: 1" = 1'-0"

2 Section: GATE.3 Right Side
SCALE: 1" = 1'-0"

SPECIFICATIONS

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NOTE:

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2) CONCRETE STRENGTH AT 28 DAYS F'C=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 DRAWING SHEETS.

NOTES:
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REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
GATE.3
Construction Details

SHEET NO.
F.7

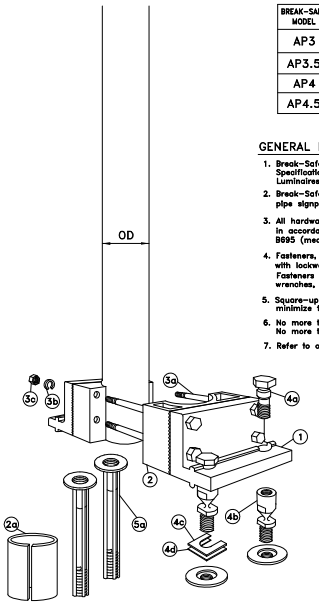
PARTS LIST

ITEM	DESCRIPTION	SIZE/SPECIFICATIONS	QTY/ POST	PART NUMBER
1	Bracket, Type AP3/AP3.5, AP4/AP4.5	6061-T6 Aluminum	2	SBMAP 3, 3.5, 4 & 4.5"
2	Bracket Adaptor, Type AP3, AP3.5, AP4, AP4.5	6061-T6 Aluminum	2	
2a	with Adaptor Ring, Type AP3, AP4	6061-T6 Aluminum	1	
3	Bracket Hardware Assembly, Type AP3, AP3.5, AP4, AP4.5, Includes:		1	SB-AP3.5H, 4.5H
3a	Bolt	12.7mm(1/2"-13UNC, Hex Head, ASTM A325, Galv. ASTM A153	4	
3b	LockWasher	12.7mm(1/2"), ANSI B18-21-1, Galv. ASTM A153	4	
3c	Nut	12.7mm(1/2"-13UNC, Heavy Hex, ASTM A563 Gr. DH, Galv. ASTM A153	4	
4	Coupling & Special Bolt Assembly, Type A, Includes:		1	SB-CALP
4a	Special Bolt	15.9mm(5/8"-11UNC, ASTM A449, Galv. ASTM A153/B695	4	
4b	Coupling	15.9mm(5/8"-11UNC, LP, AMS 8378D, Galv. ASTM A153, Polyester Coat	4	
4c	Shim	15.9mm(5/8") Horseshoe, 14 Gauge, Galv. Steel Sheet	2	
4d	Shim	15.9mm(5/8") Horseshoe, 18 Gauge, Galv. Steel Sheet	2	
5	Anchor Assembly, Type A, Includes:		1	SBAAPK
5a	Anchor	15.9mm(5/8"-11UNC, 304 S.S. Ferrule, AISI 1038 Rod, AISI 1008 Coil	4	

**Complete assembly includes line items 1-4*

BREAK-SAFE MODEL AP SELECTION TABLE

BREAK-SAFE MODEL	PIPE OUTSIDE DIAMETER (OD)	NOMINAL SCH. 40 PIPE SIZE
AP3	73 mm (2-7/8")	2-1/2"
AP3.5	89 mm (3-1/2")	3"
AP4	102 mm (4")	3-1/2"
AP4.5	114 mm (4-1/2")	4"



GENERAL NOTES:

1. Break-Safe meets all requirements of "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."
2. Break-Safe Model AP is designed to fit steel or aluminum round pipe signposts. See table above for pipe sizes.
3. All hardware items are American Standard sizes, galvanized in accordance with ASTM A153 (hot dipped) or ASTM B695 (mechanically applied).
4. Fasteners, except for special bolt and coupling, are installed with lockwashers, and do not have specific torque requirements. Fasteners should be secured as tight as possible with conventional wrenches, unless noted otherwise.
5. Square-up and level individual components, particularly Anchors to minimize the need for shimming between the Couplings and Anchors.
6. No more than two shims shall be placed under any one coupling. No more than three shims underneath any pair of couplings.
7. Refer to other side of page for complete installation instructions.

TRANSPO The Smart Solutions Company
20 Jones Street
New Rochelle, NY 10801
914-636-1000
www.transpo.com

Break-Safe Model AP

Breakaway Support System for Sign Posts

Scale: Not To Scale | Date: March 2013

Drawing No. BS-AP-1 | Sheet: 1 of 2

Patent Nos. 4,528,786 and 5,596,845

INSTALLATION INSTRUCTIONS

ANCHOR ASSEMBLY:

Note: Precise positioning of the anchors is critical to proper assembly of the system. It is recommended that actual posts be used to locate the correct position of the anchors.

1. Fabricate a flat, rigid template with four (4) 16mm (5/8") diameter holes located to match the specified anchor pattern of the Break-Safe Brackets attached to the signpost. See diagram below.
2. Attach four (4) Transpo Type A Female Anchors to the template using four (4) 16mm (5/8") diameter bolts. Ensure that each Anchor Washer is snug against the bottom of the template.
3. Lower Anchor Assembly into fresh concrete foundation, and vibrate into position such that the tops of the Anchor Washers are flush with the finished top surface of the foundation. Support the template such that all Anchors are level and in their proper locations.
4. Allow concrete to cure, and then remove the bolts and template from the top of the foundation.

BRACKET ASSEMBLY:

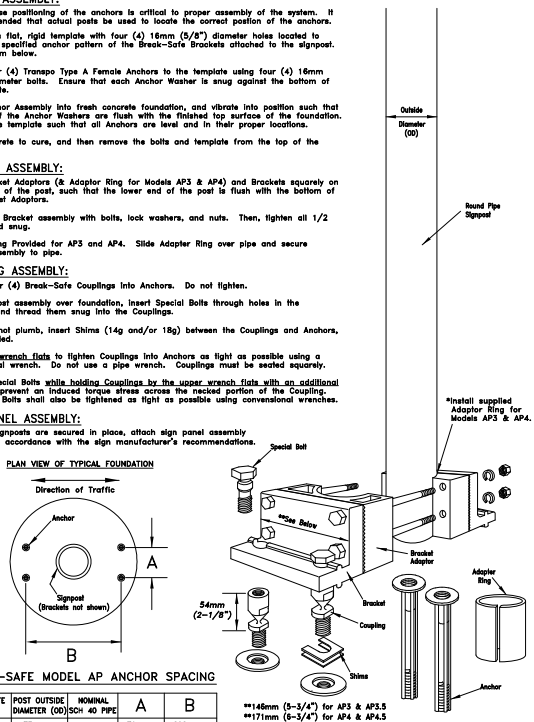
1. Place Bracket Adaptors (& Adaptor Ring for Models AP3 & AP4) and Brackets squarely on the bottom of the post, such that the lower end of the post is flush with the bottom of both Bracket Adaptors.
2. Secure the Bracket assembly with bolts, lock washers, and nuts. Then, tighten all 1/2 turn beyond snug.
3. Adapter Ring Provided for AP3 and AP4. Slide Adapter Ring over pipe and secure bracket assembly to pipe.

COUPLING ASSEMBLY:

1. Thread four (4) Break-Safe Couplings into Anchors. Do not tighten.
2. Suspend post assembly over foundation, insert Special Bolts through holes in the Brackets, and thread them snug into the Couplings.
3. If post is not plumb, insert Shims (14g and/or 18g) between the Couplings and Anchors, where needed.
4. Use lower wrench flats to tighten Couplings into Anchors as tight as possible using a conventional wrench. Do not use a pipe wrench. Couplings must be seated squarely.
5. Tighten Special Bolts while holding Couplings by the upper wrench flats with an additional wrench to prevent an induced torque stress across the necked portion of the Coupling. All Special Bolts shall also be tightened as tight as possible using conventional wrenches.

SIGN PANEL ASSEMBLY:

1. After all signposts are secured in place, attach sign panel assembly to posts in accordance with the sign manufacturer's recommendations.



PLAN VIEW OF TYPICAL FOUNDATION

BREAK-SAFE MODEL AP ANCHOR SPACING

BREAK-SAFE MODEL	POST OUTSIDE DIAMETER (OD)	NOMINAL SCH 40 PIPE	A	B
AP3*	73 mm (2-7/8")	2-1/2"	70 mm (2-3/4")	202 mm (7-15/16")
AP3.5	89 mm (3-1/2")	3"	70 mm (2-3/4")	202 mm (7-15/16")
AP4*	102 mm (4")	3-1/2"	83 mm (3-1/4")	227 mm (8-15/16")
AP4.5	114 mm (4-1/2")	4"	83 mm (3-1/4")	227 mm (8-15/16")

**Install supplied Adaptor Ring for Models AP3 & AP4.*

**146mm (5-3/4") for AP3 & AP3.5
**171mm (6-3/4") for AP4 & AP4.5

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20 Jones Street
New Rochelle, NY 10801
914-636-1000
www.transpo.com

Break-Safe Model AP

Breakaway Support System for Sign Posts

Scale: Not To Scale | Date: March 2013

Drawing No. BS-AP-2 | Sheet: 2 of 2

Patent Nos. 4,528,786 and 5,596,845

SPECIFICATIONS

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

DATE: 06/30/16

DRAWN BY: LH

REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

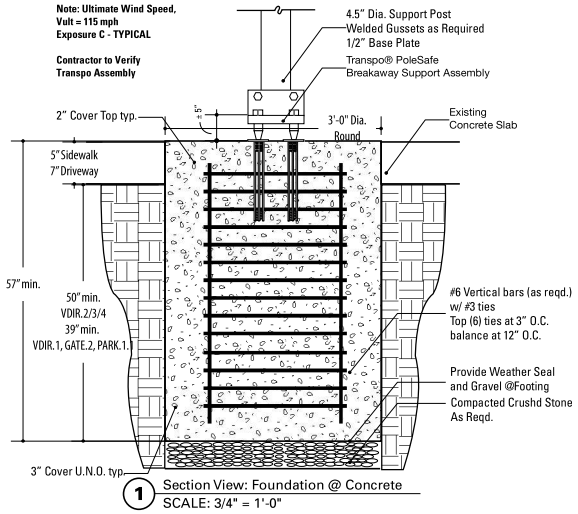
PROJECT NO.

SHEET TITLE

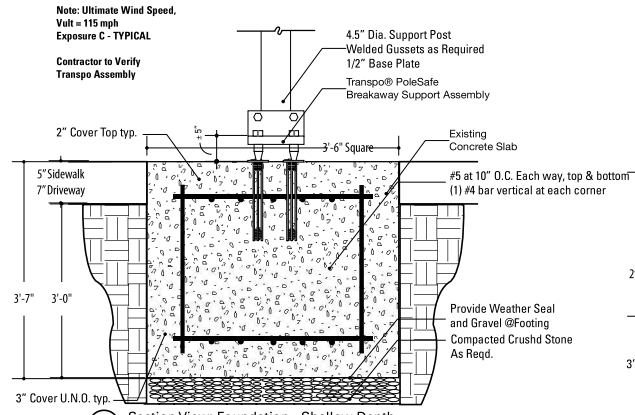
Transpo Break-Safe AP 4.5 Details

SHEET NO.

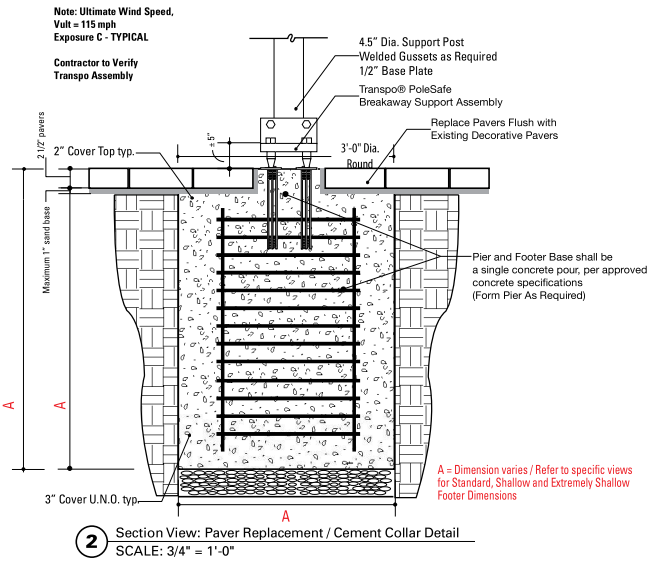
F.8



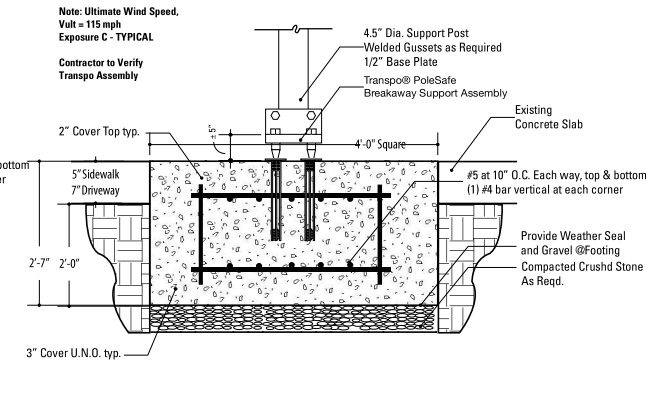
1 Section View: Foundation @ Concrete
SCALE: 3/4" = 1'-0"



3 Section View: Foundation - Shallow Depth
SCALE: 3/4" = 1'-0"



2 Section View: Paver Replacement / Cement Collar Detail
SCALE: 3/4" = 1'-0"



4 Section View: Foundation - Extremely Shallow Depth
SCALE: 3/4" = 1'-0"

SPECIFICATIONS

The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks.

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2) CONCRETE STRENGTH AT 28 DAYS F'C=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 DRAWING SHEETS.

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ENVIRONMENTS & EXPERIENCES

merje

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

DATE
06/30/16

DRAWN BY:
LH

REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

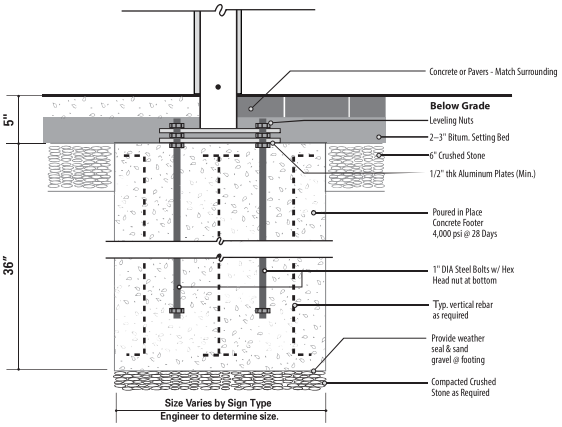
PROJECT NO.

SHEET TITLE

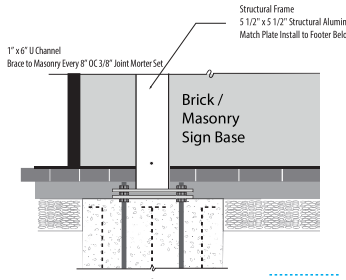
Transpo Break-Safe AP 4.5 Foundation Details

SHEET NO.

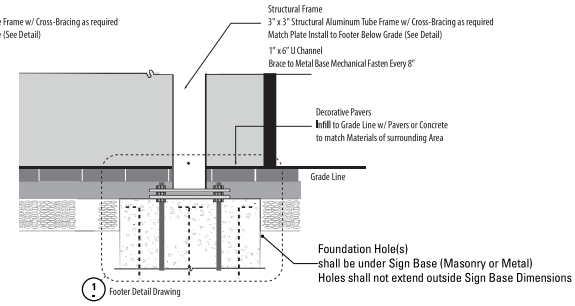
F.9



1 Section - Bolt w/ Nut Plate-to-Plate MOUNTING
Concrete Pavers Surface
SCALE: 1" = 1' - 0"



2 Section - KIOSK.1 - Detail at Base
SCALE: 1/2" = 1'-0"



3 Section - KIOSK.2 - Detail at Base
SCALE: 1/2" = 1'-0"

SPECIFICATIONS

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 Borough of Media, 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 Borough of Media, 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 SIGN TYPES IDENTIFIED AND REGISTERED PROFESSIONAL ENGINEER FOR THE BOROUGH OF MEDIA IS REQUIRED TO SIGN AND SEAL THE SUBMITTAL OF SHOP DRAWINGS.

NOTE:
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2) CONCRETE STRENGTH AT 28 DAYS F'C=4,000 PSI. REINFORCEMENT SHALL BE ASTM A615 FY=60,000 PSI.

3) FOLLOW ALL RELEVANT 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.

5) SUBSTITUTE FOUNDATION TYPES (i.e. SCREW IN BASE) ARE ACCEPTABLE WITH ENGINEER'S APPROVAL

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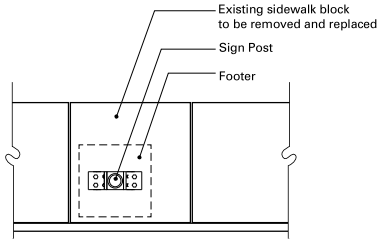
CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

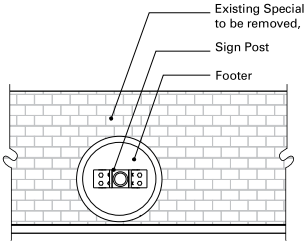
SHEET TITLE
Plate-to-Plate Footer Detail

SHEET NO.
F.10



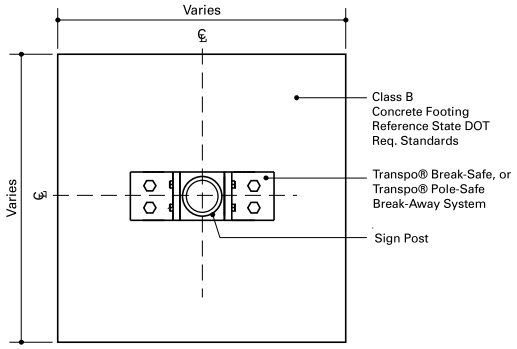
NOTE: When locating a footer within a single pavement block adjacent to at least 2 expansion joints, the entire block of pavement shall be removed and replaced with the same materials and finish of adjacent sidewalk areas.

1 Plan: Footer Placement
SCALE: NTS



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.

3 Plan: Specialty Pavers Footer Placement
SCALE: NTS



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

Acceptable Footer Detail

Unacceptable Footer Detail

Acceptable Footer Detail

Unacceptable Footer Detail

Acceptable Footer Detail

Unacceptable Footer Detail

SPECIFICATIONS

Sidewalk Footer Placement Details

The FABRICATOR shall be familiar with all site conditions and shall be responsible for all underground utility checks.

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NOTE:

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2) CONCRETE STRENGTH AT 28 DAYS F'C=4,000 PSI REINFORCEMENT SHALL BE ASTM 36 FY=60,000 PSI

3) FOLLOW THE LATEST 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and U/V) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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

DATE 06/30/16

DRAWN BY: LH

REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
Sidewalk Footer Placement Details

SHEET NO.
F.11

A perfect blend of

design, performance

and value

PHILIPS STONCO 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.

LYTEPRO LED SMALL FLOODLIGHT 40W LPF2

Project:
Location:
Catalog No:
Fixture Type:
Mfg Lamps: Qty:
Notes:

Ordering guide[1]

example: LPF2-E-4K-F1-K-F1-PCB-1-BZ

Series / # of COB[2]	Drive Current	Color Temperature	Distribution	Mounting	Options	Voltage	Finish
LPF2	E	4K	FL	K	PCB	8	BZ
LPF2 LytePro LED Small Floodlight 40W	E 500 mA	4K 4000K[3] 5K 5000K[3]	FL Flood	K Knuckle 1/2" NPT	F1[4] Single Fusing F2[5] Double Fusing F3[6] Double Fusing, Canada PCB[7] Photocontrol DM25[8,9] Dynadimmer	1 120V 2 208V 3 240V 4 277V 6 347V 8 120-277V	BZ Textured Dark Bronze WH Textured White DGY Textured Dark Gray

Accessories – Ordering Guide (must be ordered separately)

Catalog #	Description
LPF2WG[10,11]	Wire Guard
LPF2SG[10,11]	Stone Guard
LPFW10BZ[10,11]	Bronze Wall Adapter
LPFW10WH[10]	White Wall Adapter
LPFW10DGY[11]	Textured Dark Gray Wall Adapter

Stocked Luminaires – Ordering Guide[12,13,15,16]

Catalog #	Description	Master Pack, QTY	UPC Code
STKLPF2K-8	LPF2, Knuckle Mount, 120-277V	Yes, 4	786034936932

Footnotes:
1. MTO configurations are assembled in the USA.
2. COB denotes Chip On Board LED platform.
3. Both 4K and 5K options have a minimum 80 CRI.
4. "F1" for 120-277, 347V.
5. "F2" for 208, 240V.
6. "F3" for 208, 240V Canadian double pull.
7. Specify voltage. "PCB" not available with "8" universal voltage option.
8. "F2" or "F3" only available 120-277V and returns to 70% for 6 hours.
9. Dynadimmer is suitable for use from +10°C to 40° temperature ambient only.
10. Limited operations stocked in our Carrollton KY.
11. Contact factory for availability of large order quantities.
12. LPFW10WH and 2GY are Made to Order only.
13. All stock products are BZ Textured Dark Bronze, 4K Neutral White and "F1" Flood Optics.
14. Stock LPF products ship out of our Carrollton Distribution facility within 2-days of receipt of order.
15. Always consult factory for current inventory levels. Larger quantities may be converted to MTO if necessary.
16. LPF2 is provided with full 4-color POP packaging.

PHILIPS Stonco

Features

- LPF2 delivers 3,460 lumens at 40W, with an efficacy of 87 lumens per watt
- Effectively replaces equivalent 150W HID as minimum
- 4000K neutral white is standard, 5000K cool white is optional, minimum 80 CRI
- DLC certified optics provide excellent uniformity ideal for general facade, target and landscape illumination
- Fixtures are IP66 rated and suitable for use in ambients from -40°C to 40°C
- Rated system life of 100K hours for the driver and LED ($>L_{70}$) at ambients up to 30°C
- 5-year limited warranty, see philips.com/warranties for details
- LPF2 stocked in dark bronze, 120-277V and 4000K Neutral White for quick 2-day shipment
- Additional made to order versions available that are assembled in the USA, consult factory for current lead time

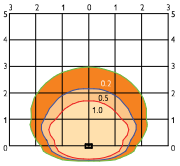
Performance Specifications

Beam Specs	Flood (FL)
Initial Lumens (4K and 5K)[17]	3,460
Average Wattage[18]	40W
Lumens/Watt	87
NEMA Beam	6H x 6V
50% beam (horizontal X vertical)	93° x 79°
10% beam (horizontal X vertical)	127° x 105°
Max Candela	1,974 cd

17. Lumen values based on photometric tests performed in accordance with IESNA LM-79.
18. System input wattage may vary based on input voltage, by up to +/- 8% and based on manufacturer forward voltage by up to +/- 8%.

Photometrics

Flood (FL)



LPF2 40W - 12' Mounting Height, 30° Tilt

Mounting Height	18	15	12	10	8
Multiplier	0.32	0.56	1.0	1.5	2.5

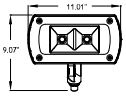
Notes: Grid is in multiples of mounting height and values shown are in footcandles. Values shown are based on initial lumens.

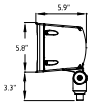
LYTEPRO LED SMALL FLOODLIGHT 40W LPF2

Dimensions

Approximate luminaire weight – 7.3lbs (3.3kg)

Fixture EPA – 0.39 sq. ft.

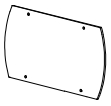




Accessory Details (must be ordered separately)

LPF2WG wire guard (field installed)

LPF2SG stone guard (field installed)



LPFW10 wall adapter (field installed)

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

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 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and UV) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

ENVIRONMENTS & EXPERIENCES
merje
120 North Church Street
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T 484.266.0648
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DATE 06/30/16
DRAWN BY: LH

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REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
Philips Stonco Ground Lighting

SHEET NO.
F.12

PERMA•BANNER
POLE MOUNT SYSTEM

Assembly and Installation Instructions

Carefully select the location of your sign to be sure that it will be readily visible to those for which 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...

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. 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.

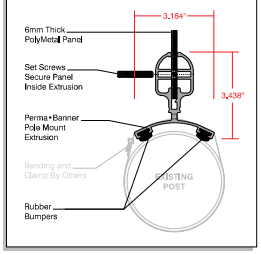
Step 2
Plan carefully, it is important to check your clearances before beginning to install Perma•Banner pole signs. Determine the direction in which the panel needs to be seen and be sure it is mounted high enough to clear vehicles on roadsides and clear raised hands in pedestrian areas.

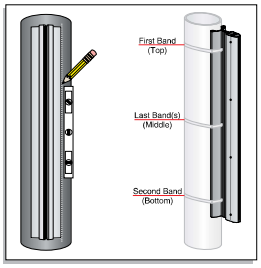
Step 3
The general idea in mounting these signs is to
1. Fasten the top stainless steel banding and clamp it to the pole first.
2. Then make sure the sign is level and fasten the bottom banding and tighten with clamps.
3. Thread and tighten the banding and clamps through all the middle slots of the extrusion, 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.

Make-A-Clamp Banding Kit sold separately

Assembly Detail





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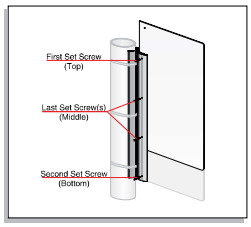
Since 1922 HOWARD INDUSTRIES Architectural Signage Systems

Pole Mount Continued

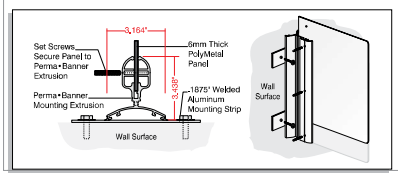
Step 4
Slide the sign blade into position. Line up the sign blade holes to the set screw holes.
1. Fasten the top set screw to hold the sign blade in place.
2. Fasten the bottom set screw, then
3. Fasten the middle set screw(s).

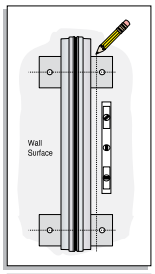


Wall Mount

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 pre-drilled holes in the brackets on the wall. Secure all brackets to the wall surface using appropriate fasteners, not supplied. Re-attach sign blade:
1. Fasten the top set screw to hold the sign blade in place.
2. Fasten the bottom set screw, then
3. Fasten the middle set screw(s).





Appropriate fastener type not supplied.

SPECIFICATIONS

NOTES:
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REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
PermaBanner

SHEET NO.
F.13

ColorBlast 12
ColorBlast 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, ColorBlast can be used in both indoor and outdoor installations. ColorBlast 12 high-intensity LEDs produce superior light output of over 1200 lumens, while ColorBlast 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 ColorBlast 12, 21° for ColorBlast 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 — ColorBlast fixtures work seamlessly with the complete line of Philips controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.
- Additional options for controlling and dispersing light — Designed specifically for the family of ColorBlast fixtures by City Theatrical, Inc., accessories include top hats, half top hats, egg crate louvers, barndoors, and horizontal and vertical spread lenses.

Outdoor Rated
Fully sealed for maximum fixture life and IP66 rated for outdoor applications, ColorBlast fixtures meet or exceed specifications for use in wet locations. Rugged, die-cast aluminum housing is available in white or black powder-coated finish.

ColorBlast 12
10° beam angle

LED	Lumens	Efficacy
RGB	1207	16.9

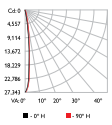
ColorBlast 12
22° beam angle

LED	Lumens	Efficacy
RGB	1090	15.3

Photometrics

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

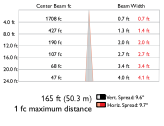
Polar Candela Distribution



	0	22.5	44	67.5	90
0	27345	27345	27345	27345	27345
5	12774	12842	13092	13677	12995
15	488	486	473	484	498
25	197	192	196	185	194
35	114	111	116	110	114
45	60	59	58	59	56
55	21	21	21	21	21
65	2	2	2	2	2
75	1	1	1	1	2
85	0	0	0	0	0
90	0	0	0	0	0

VA 0° 10° 20° 30° 40°

Illuminance at Distance



	Center Beam fc	Beam Width
4.0 ft	1708 fc	0.7 ft 0.7 ft
8.0 ft	427 fc	1.3 ft 1.4 ft
12.0 ft	190 fc	2.0 ft 2.0 ft
16.0 ft	107 fc	2.7 ft 2.7 ft
20.0 ft	68 fc	3.4 ft 3.4 ft
24.0 ft	47 fc	4.0 ft 4.1 ft

165 ft (50.2 m)
1 fc maximum distance

Vert. Spread: 9.6°
Horiz. Spread: 9.7°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	1,062.6	88%	88.1%
0-40	1,134.6	94%	94.1%
0-60	1,197.4	99.2%	99.3%
60-90	8.1	0.7%	0.7%
0-90	1,205.5	99.9%	100%
90-180	0	0%	0%
0-180	1,205.5	99.9%	100%

Total Efficiency: 99.9%

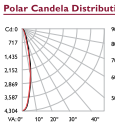
Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80			70			50			30			10		0
RW %:	70	50	30	70	50	30	70	50	30	70	50	30	70	50	0
RCR: 0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.00
1	1.15	1.13	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.00 .99 .97
2	1.12	1.09	1.06	1.04	1.10	1.07	1.05	.95	1.04	1.02	1.00	1.01	1.00	.98	.99 .97 .96 .95
3	1.09	1.05	1.02	.99	1.07	1.03	1.01	.93	1.01	.99	.97	.99	.97	.95	.97 .95 .94 .93
4	1.06	1.01	.98	.95	1.05	1.00	.97	.91	.99	.96	.94	.97	.94	.93	.95 .93 .92 .91
5	1.04	.98	.95	.92	1.02	.98	.94	.89	.96	.93	.91	.95	.92	.91	.93 .91 .90 .89
6	1.02	.96	.92	.89	1.00	.96	.92	.88	.94	.91	.89	.93	.91	.89	.92 .90 .89 .87
7	1.00	.94	.89	.86	.97	.93	.90	.85	.92	.89	.87	.91	.89	.87	.90 .88 .87 .86
8	.98	.91	.87	.83	.95	.92	.88	.83	.90	.87	.85	.90	.87	.86	.89 .87 .85 .84
9	.96	.89	.85	.81	.93	.90	.86	.81	.88	.85	.83	.88	.86	.84	.87 .85 .84 .83
10	.95	.88	.84	.80	.92	.88	.84	.80	.87	.84	.82	.87	.84	.83	.86 .84 .83 .82

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

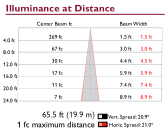
Polar Candela Distribution



	0	22.5	44	67.5	90
0	4300	4300	4300	4300	4300
5	3614	3616	3626	3653	3634
15	1217	1218	1222	1222	1224
25	376	376	377	377	376
35	166	166	166	166	166
45	93	93	93	93	93
55	51	51	52	52	52
65	28	28	29	29	29
75	12	12	12	13	12
85	0	0	0	0	0
90	0	0	0	0	0

VA 0° 10° 20° 30° 40°

Illuminance at Distance



	Center Beam fc	Beam Width
4.0 ft	269 fc	1.3 ft 1.3 ft
8.0 ft	67 fc	3.0 ft 3.0 ft
12.0 ft	30 fc	4.4 ft 4.5 ft
16.0 ft	17 fc	5.9 ft 5.9 ft
20.0 ft	11 fc	7.4 ft 7.4 ft
24.0 ft	7 fc	8.9 ft 8.9 ft

65.5 ft (19.9 m)
1 fc maximum distance

Vert. Spread: 20.9°
Horiz. Spread: 21.0°

Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	824.1	75.6%	75.7%
0-40	929.8	85.3%	85.4%
0-60	1,046.7	96%	96.1%
60-90	42.5	3.9%	3.9%
0-90	1,089.2	99.9%	100%
90-180	0	0%	0%
0-180	1,089.2	99.9%	100%

Total Efficiency: 99.9%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80			70			50			30			10		0
RW %:	70	50	30	70	50	30	70	50	30	70	50	30	70	50	0
RCR: 0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.00
1	1.14	1.11	1.08	1.06	1.11	1.09	1.07	.94	1.05	1.03	1.01	1.01	1.00	.98	.96 .95 .94
2	1.08	1.04	1.00	.96	1.06	1.02	.98	.88	.99	.96	.93	.96	.93	.91	.93 .91 .89 .88
3	1.03	.97	.93	.89	1.01	.96	.92	.83	.93	.90	.87	.91	.88	.85	.89 .86 .84 .82
4	.99	.92	.87	.83	.97	.91	.86	.79	.89	.84	.81	.87	.83	.80	.85 .82 .79 .78
5	.94	.87	.82	.78	.92	.86	.81	.74	.84	.80	.76	.82	.79	.75	.81 .77 .75 .73
6	.91	.83	.77	.74	.88	.82	.77	.72	.81	.76	.73	.79	.75	.72	.78 .74 .72 .71
7	.87	.79	.74	.70	.86	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75 .71 .69 .67
8	.84	.76	.71	.67	.83	.75	.70	.66	.74	.70	.66	.73	.69	.66	.72 .69 .66 .65
9	.81	.73	.68	.64	.80	.72	.67	.63	.71	.67	.64	.71	.67	.64	.70 .66 .63 .62
10	.79	.70	.65	.62	.78	.70	.65	.61	.69	.65	.62	.68	.64	.61	.68 .64 .61 .60

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

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

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 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and UV) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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REVISIONS

CLIENT / PROJECT
Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE
Phillips Colorblast Color Changing LED Floodlight

SHEET NO.
F.14

Specifications

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

Item	Specification	ColorBlast 6	ColorBlast 12
Output	Beam Angle	10° / 21°	10° / 22°
	Lumens*	584 (10° beam angle) 534 (21° beam angle)	1207 (10° beam angle) 1090 (22° beam angle)
	LED Channels	Red / Green / Blue	
	Mixing Distance	6 in (152 mm) to uniform light	
	Lumen Maintenance†	50,000+ hours L50 @ 50° C (full output)	
Electrical	Input Voltage	24 VDC via PDS-150e or PDS-60	
	Power Consumption	25 W maximum at full output, steady state	50 W maximum at full output, steady state
Control	Interface	PDS-150e 24V (DMX or Ethernet) PDS-60 24V (DMX, Pre-programmed, or Ethernet)	
	Control System	Philips full range of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, or third-party controllers	
Physical	Dimensions *(Height x Width x Depth)*	8.4 x 6.3 x 5.1 in (213 x 160 x 130 mm)	8.4 x 12.6 x 5.1 in (213 x 320 x 130 mm)
	Weight	Net: 6.5 lb (2.95 kg) Gross: 8.4 lb (3.8 kg)	Net: 8 lb (3.65 kg) Gross: 9.8 lb (4.45 kg)
	Housing	Die-cast aluminium, black or white powder-coated finish	
	Lens	Clear glass (10° beam angle) Frosted glass (21° beam angle)	Clear glass (10° beam angle) Frosted glass (22° beam angle)
	Fixture Connections	60 ft (18.3 m) unified power / data cable	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Humidity	0 – 95%, non-condensing	
	Maximum Fixtures Per Power / Data Supply	PDS-150e 24V: 6 PDS-60 24V: 2	PDS-150e 24V: 3 PDS-60 24V: 1
Certification and Safety	Certification	UL / cUL, FCC Class A, CE, PSE, C-Tick, SAA, CQC	
	Environment	Dry / Damp / Wet Location, IP66	

* Lumen measurement complies with IES LM-79-08.

† L_{50} = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/approotes/ for more information.

‡ These figures, provided as a guideline, are accurate for this configuration only. Changing the configuration can affect the fixture run lengths.

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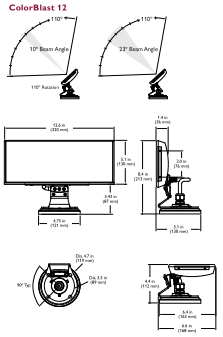
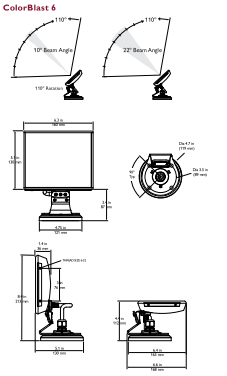
ColorBlast 12



ColorBlast 6



Included in the box

ColorBlast 6 or ColorBlast 12 fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
Watertight grommet assembly
3/32 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

Fixtures, Power / Data Supplies, and Controllers

ColorBlast 6 and ColorBlast 12 fixtures are part of a complete system which includes:

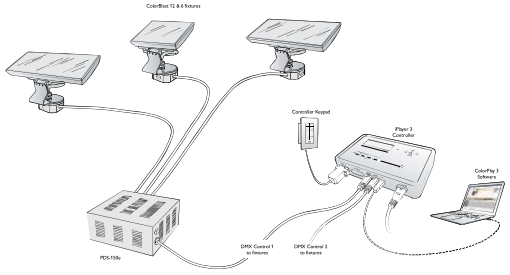
- One or more power / data supplies
- Any Philips controller, including Light System Manager and iPlayer 3, or a third-party DMX controller

	Item	Type	Housing Color	Item Number	Philips 12NC
ColorBlast fixtures	ColorBlast 12	22° Beam Angle	White	116-200025-00	910503700589
		10° Beam Angle		116-200025-02	910503700591
		22° Beam Angle	Black	116-200025-01	910503700590
		10° Beam Angle		116-200025-03	910503700592
	ColorBlast 6	21° Beam Angle	White	116-200026-00	910503700593
		10° Beam Angle		116-200026-02	910503700595
		21° Beam Angle	Black	116-200026-01	910503700594
		10° Beam Angle		116-200026-03	910503700596
Power / data supplies	PDS-150e 24V	DMX / Ethernet		109-Z000008-01	910503700092
	PDS-60 24V	Pre-programmed		109-Z000017-00	910503700096
		DMX / Ethernet		109-Z000017-03	910503700097

Use Item Number when ordering in North America

Typical ColorBlast installation

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



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.

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Phillips Colorblast Color Changing LED Floodlight

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Accessories

Designed specifically for the family of Blast fixtures, accessories provide additional options for controlling and dispersing light. Accessory holders snap to the front of the fixture and are required for mounting accessories. Accessory holders prevent accessories from falling out if the fixture is tipped or hung upside down.

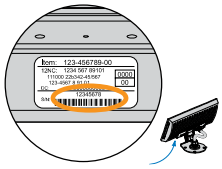
Item	Type	Housing Color	Item Number	Philips 12NC
Accessory Holders	ColorBlast 12	White	120-000003-03	910503702839
		Black	120-000003-04	910503702840
	ColorBlast 6	White	120-000004-03	910503702841
		Black	120-000004-04	910503702842
Half Top Hats	ColorBlast 12	White	120-000009-03	910503702847
		Black	120-000009-04	910503702848
	ColorBlast 6	White	120-000010-03	910503702849
		Black	120-000010-04	910503702850
Top Hats	ColorBlast 12	White	120-000005-03	910503702843
		Black	120-000005-04	910503702844
	ColorBlast 6	White	120-000006-03	910503702845
		Black	120-000006-04	910503702846
Egg Crate Louvers	ColorBlast 12	White	120-000015-03	910503702851
		Black	120-000015-04	910503702852
	ColorBlast 6	White	120-000016-03	910503702853
		Black	120-000016-04	910503702854
Barndoors	ColorBlast 12	White	120-000019-03	910503702855
		Black	120-000019-04	910503702856
	ColorBlast 6	White	120-000020-03	910503702857
		Black	120-000020-04	910503702858
Horizontal Glass Spread Lens*	ColorBlast 12	36° (ribs out) / 50° (ribs in)	120-000025-00	910503703897
	ColorBlast 6	36° (ribs out) / 50° (ribs in)	120-000026-00	910503703899
Horizontal /Vertical Glass Spread Lens*	ColorBlast 12	40°	120-000025-01	910503703898
	ColorBlast 6	40°	120-000026-01	910503702772

* Intended for use with Blast fixtures with 10° clear lens

Use Item Number when ordering in North America.

Refer to the ColorBlast 6 and ColorBlast 12 Installation Instructions for specific warning and caution statements.

Record fixture serial numbers



For complete instructions on how to wire the power / data supply, refer to the specific power / data supply's Installation Guide or Specification Sheet. For sample wiring diagrams, visit www.philipscolorkinetics.com/support/wiringfx_prod.html#

Installation

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 150e 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 gaskets, clamps, 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.

   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-150e, or one ColorBlast 12 fixture to each PDS-60. You can connect up to six ColorBlast 6 fixtures to each PDS-150e, 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).
2. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and cables.
3. 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.
4. Assign each fixture to a position in the lighting design plan.
5. 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.

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

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Wayfinding and Signage System

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Phillips Colorblast Color Changing LED Floodlight

SHEET NO.

F.16

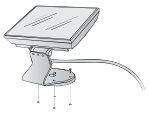
4. Ensure that all additional parts and tools are available, including:
   - The included 8-32 screws for indoor installations, or the 10-24 stainless steel screws for outdoor installations
   - The included 3/32 in hex key wrench
   - The included junction box gasket (optional)
   - Unless mounting 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.)
   - Conduit 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 wall, ceiling, or other suitable 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 sits flush to the mounting surface.
3. Using the provided 8-32 screws, attach the fixture to the mounting surface.



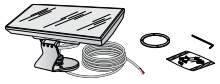
4. Repeat steps 2 and 3 for each fixture in the installation.

Mounting ColorBlast to a Junction Box

1. 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.
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.

ColorBlast 6

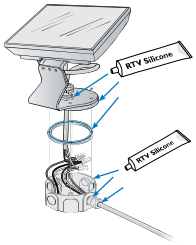
ColorBlast 12



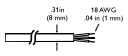
Included in the box

ColorBlast 6 or ColorBlast 12 fixture
(2) 8-32 screws for indoor installation
(4) 10-24 stainless steel screws for outdoor installation
Watertight grommet assembly
3/32 in hex key wrench for fixture positioning and locking
Junction box gasket
Installation Instructions

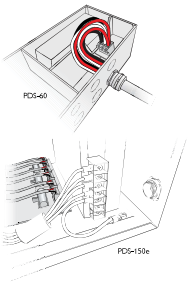
If installing in a wet or damp location, you must mount fixtures to outdoor-rated junction boxes, as described below.



Fixture cable connector dimensions



ColorBlast 12 wiring

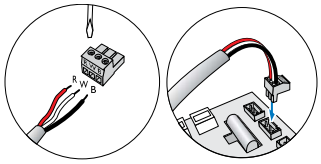


5. Insert the fixture cable through the provided junction box gasket, and pull the cable through the junction box.
6. If installing in a wet or damp location, seal all junction boxes with contractor-grade RTV silicone sealant. Use gaskets, clamps, and other parts and fittings required to comply with 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

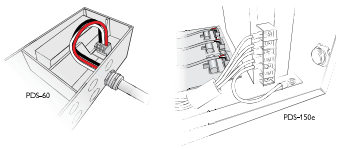
Make sure the power is OFF before mounting and connecting ColorBlast fixtures.

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 green ground wire from each fixture cable to the earth ground on the power / data supply.

ColorBlast 6 wiring



4. Repeat for each power / data supply in your installation.

SPECIFICATIONS

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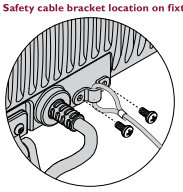
Attach Safety Cable (Optional)

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.

Safety cable bracket location on fixture



Safety cable minimum requirements

Material	316 Stainless Steel
Size	5/64 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 (49 wires) preformed stranded

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 iPlayer 3 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.

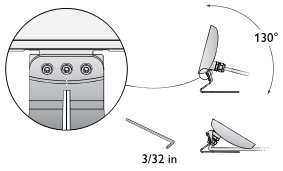
For complete details on addressing and configuring fixtures, controllers, and power / data supplies with QuickPlay Pro, refer to the *Addressing and Configuration Guide*, which you can view or download at www.philipscolorkinetics.com/support/addressing.

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

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

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.



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

Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.philipscolorkinetics.com

DAS-000034-00 R03 04-12

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

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 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.

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. All vinyl and painted surfaces must receive a compatible anti-graffiti (and UV) clear coat or vinyl over laminate.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. Contractor must provide shop drawings for all structural components, signed and sealed by a licensed engineer in the State of project.

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

DATE 06/30/16

DRAWN BY: LH

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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

Phillips Colorblast Color Changing LED Floodlight

SHEET NO.

F.18

DATA SHEET

REGULOR LED extrusion – article number B468+43

Product characteristics

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 Regulor 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 degree (without insert) and 30^0, 60^0, 90^0 (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 in drywall is performed using special PDS springs (index 00800). If you would like to mount the profile in an Armstrong drop ceiling with the use of PDS springs, we recommend special safety washers (42712).
An integrated, straight line of light can be achieved by assembling: 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.

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/KA-BIS
frosted (1547/17071)
clear (1548/17072)
cover type LIGER
frosted matte (17031)

cover type HS
frosted (1369)
clear (1370)

cover type S
clear (00220)

end cap
without hole (00310)
with hole (00313)

mounting bracket
zinc (1072)
chrome matt. (1345)

DATA SHEET

REGULOR LED extrusion – article number B468+43

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

www.KlusDesign.com
We reserve the right to change and modify our products.
2501 27th Ave, Suite F-10, Vero Beach, FL 32960 / United States / Customer Service: sophia@klusdesign.com / (Ph.) 772 321 2260, 772 569 6655

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

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merje
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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

KLUS Regulor LED Extrusion

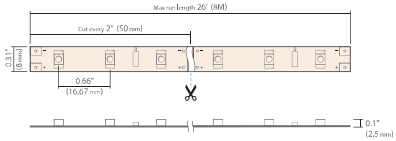
SHEET NO.

F.19

KLUS

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

cULus LISTED



Product code No.	Color Temp.	Watts/ Meter Watts/ Foot	LEDs/ Meter LEDs/ Foot	Lumens / Meter Lumens/ Foot	CRI	LED Chip Type	Beam Angle	Input Voltage
WP-K-27-1210	2700K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	300 L/M 95 L/F	90+	Epistar 3528	140°	12V
WP-K-30-1210	3000K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	320 L/M 100 L/F	90+	Epistar 3528	140°	12V
WP-K-35-1210	3500K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	345 L/M 105 L/F	90+	Epistar 3528	140°	12V
WP-K-40-1210	4000K	4.8 W/M 1.5 W/F	60 LEDs/M 18 LEDs/F	370 L/M 125 L/F	90+	Epistar 3528	140°	12V

-22°F to 122°F OPERATING TEMPERATURE · IP65 IP · NO MERCURY CONTENT · 12V DC POWER OUT · DIMMABLE · OUTDOOR · UV RESISTANCE · CE · RoHS

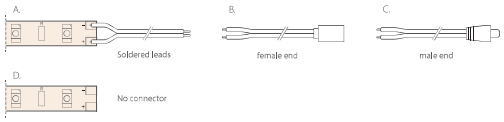
Water and dust resistant – IP 65

Protects aganist:

- Rain and humidity
- Water splash
- Dust and dirt
- Water jets
- Particles

Wire options:

36"-72" wire leads (20 gauge jacketed wire)



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REVISIONS

CLIENT / PROJECT

Media Borough, PA
Wayfinding and Signage System

PROJECT NO.

SHEET TITLE

KLUS Regulor LED Extrusion LED Strips

SHEET NO.

F.20

G | Performance Specifications

PROJECT EXECUTIVE SUMMARY

merje

1. PROJECT INFORMATION

Project Type:	**Community Wayfinding**
Project Location:	**Media, PA**
Owner:	**Media Borough**
Owner's Project Mgr.:	**Kevin M. Matson** **P.E. - Borough Engineer** **kmatson@lighthouse-engineers.com** **610-513-7220**
Designer:	**MERJE** **120 N. Church St, Suite 208** **West Chester, PA**
Contract Doc. Date:	**January 15, 2021**

ALL QUESTIONS DURING THE BIDDING PERIOD SHALL BE DIRECTED TO THE OWNER REPRESENTATIVE IN WRITING PER BIDDING PROCEDURES. BIDDERS SHALL NOT CONTACT THE DESIGNER DIRECTLY DURING THE BIDDING PERIOD. THE OWNER SHALL ISSUE A ADDENDUM FOR ANY QUESTIONS THAT MAY EFFECT THE WORK ASSOCIATED WITH THE PROJECT BID.

2. WORK AND SCHEDULE

Project consists of Gateway signs, Vehicular post and panel signs, Parking signs, Identification signs, Pedestrian and Informational kiosks.

Work Sequence: The sequence and timeframes shall be conducted as follows from award of contract and Notice to proceed. (* Tasks run simultaneously)

Award of Contract	**03/18/2021**
Notice To Proceed (NTP) provided by OWNER	**05/01/2021**
Kick-Off Meeting	**05/08/2021**
Shop Drawings	**06/01/2021***
Samples	**07/01/2021***
Field Mark-Outs	**07/01/2021***
Fabrication and Installation	**10/31/2021***
Project Substantial Completion (Contract Duration)	**270 Days**

3. COST ASSOCIATED WITH THIS PROJECT BID

The BIDDER shall include, but is not limited to, all of the following costs in their bid, either as a line item or within the general costs of their Lump Sum Bid.

All Fabrication, Electrical and Installation Costs
Prototype Signs (Fabricated and Installed) (see Bid Sheet for Sign Type)
Sample Sign Components (see Bid Sheet for list)
Shop Drawings, Color & Material Samples
Engineering (Structural, Civil and Electrical)
Traffic Control Plans
Utility Clearances
Permits & Fees
Other Reimbursables
Removal of Existing Signs
Shipping & Storage
Bonds
Project Management + All Other Costs
Taxes

1. SUMMARY OF KEY SPECIFICATIONS

NOTE: This summary is being provided to the Bidder as a courtesy to highlight and make them aware of specific requirements of the project. Providing this Executive Summary does not relieve the Bidder of their responsibility to read and understand the totality of the drawings, specifications ad requirements as outlined in this complete document. By submitting a bid, the bidder acknowledges they have thoroughly reviewed all Design Intent Drawings, Technical Specifications and Contract requirements and that all necessary project cost are included in their bid, including fabrication, installation, material specifications, performance requirements, prototypes, samples, coordination and warranties as outlined here within.

1.1 GENERAL CONDITIONS (see Section - 00550 for additional details)

A. Use of Drawings. The DESIGN INTENT DRAWINGS, specifications and files are meant for DESIGN INTENT ONLY and are not for construction. CONTRACTOR shall verify and be responsible for all final drawings, dimensions and conditions of the job, including proper orientation of graphic layouts, panel shapes, brackets and mounting methods. (see Section 00550 - GENERAL CONDITIONS for more details)

B. Shop Drawings. CONTRACTOR shall produce all necessary shop drawings, indicating all materials, processes, specifications, fabrication details, and installation methods shall be submitted to The OWNER or their representative/agent for approval prior to proceeding with fabrication and installation.

C. Sign Copy and Graphic Layouts. All sign panel copy and graphic layouts, shall be proofread and approved by the OWNER prior to production. CONTRACTOR shall be responsible for replacing all signs, sign panels or other elements that did not receive an approval signature from the OWNER prior to fabrication.

D. Basis for Design. The CONTRACTOR shall maintain the basis of design as presented in the provided DESIGN INTENT DRAWINGS and shall remain responsible for the development of the final means and methods necessary to build structurally sound and approved signs and the related installation of the proposed signs.

E. Limits of DESIGNER. It is understood by the CONTRACTOR and the OWNER that the DESIGNER is not a licensed ENGINEER or Architect, and that responsibility for the interpretation of design intent drawings and engineering of all work performed under this contract to yield an effective, structurally sound and safe product is the responsibility of the OWNER'S CONTRACTOR and/or licensed STRUCTURAL ENGINEER

F. Structural Engineering: Provide all necessary structural engineering calculations and signed and sealed drawings for proposed signs, structures (existing and new) and other elements as necessary to perform the work and provide a structurally sound and safe product. CONTRACTOR shall have all drawings signed and sealed by a registered Structural ENGINEER, licensed in the state the project is being installed.

G. Traffic Control Plans. Prior to the start of the project the CONTRACTOR shall provide Traffic Control Plans and strategy based on the OWNER'S requirements. For work located in the public right-of-way the CONTRACTOR shall follow all State Department of Transportation, County or Municipal government regulations, permits and ordinances.

1.2 POST & PANEL / PYLON SIGNS
(see Sections 10436 and 10437 for additional details)

A. Delivery, Handling And Storage

1. Delivery and Handling. Ship and deliver post, panels and all other sign components in the appropriate protective covering and crating to fully protect all sign components and surfaces against damage.

   Remove all protective covering, as required per product manufacturer instructions, in order to maintain warranties.

2. Defects. All delivered sign components shall be delivered free of any defect, including, but not limited to scratches, chips, cracking, dents, peeling, bubbling, adhesive glue / tape marks, marker writings, undesirable film coatings or other visual distractions or defects.

B. Warranty

1. Contractors Warranty Period: Contractor shall provide a warranty of 3 years from date of Substantial Completion, for all workmanship associated with the fabrication and installation of the sign system.
2. Product and Manufacturers Warranties. CONTRACTOR shall pass on to the OWNER and honor all associated third-party product warranties. Including but not limited to;
   a. Paint Warranty: Minimum 7 years
   b. Reflective Vinyl / Custom Color Warranty: Minimum 8 yrs
   c. Non-Reflective Vinyl Warranty: Minimum 10 years

C. Paint: Use polyurenthane paints or approved equal.

Clear Coat: Apply a compatible protective UV / Anti-Graffiti Clearcoat to all painted, printed, and/or vinyl surfaces. Contractor shall verify all product warranties and compatibility with applied to surfaces.

D. Reflective Sheeting and Custom Color Application Process

1. 3M Certified Fabricator: Reflective Vinyl Printing shall be performed by a current accredited 3M Certified Fabricator or 3M Certified Digital Fabricator.
2. Single Vinyl Product and Manufacturer: All vinyl sheeting, inks and overlays shall maintain the same manufacturer and required specifications. Mixing products, processes or materials from different manufacturers is not permitted.
3. Use 3M 3930 High Intensity Reflective Sheeting or approved equal that meets MUTCD requirements for Community Wayfinding Signage (MUTCD Section 2D.50)
4. Imaging Custom Colors (3M). Custom colors shall be applied to high intensity prismatic sheeting by the following imaging methods describe below or approved equal;
   a. 3M Series 3930 Sheeting and Color Application shall be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Product Bulletin for 3M 1170 for fabrication procedures and specifications.
   b. Preferred Printer. 3M Series 3930 sheeting may be imaged by the Durst RHO 161 TS printer.
   c. Preferred Vendor: Sherine Industries: (604) 513-1887.