New Carrollton, MD

Gateway Signage

DESIGN INTENT DRAWINGS

September 27, 2016

merje
ENVIRONMENTS & EXPERIENCES

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

Table of Contents

Section 1 – SIGN SYSTEM STANDARDS

A. Graphic Standards
Typography Specifications..... A.1
Paint and Material Color Chart A.4

B. Placement Guidelines
Gateway Signage..... B.1

Section 2 – SIGNAGE DRAWINGS

C. Menu of Sign Types
Gateway Identification..... C.1

D. Design Intent Drawings
GATE.1..... D.1
GATE.2 ..... D.2

E. Graphic Layouts
GATE.1..... E.1
GATE.2 ..... E.2

F. Construction Details
GATE.1 Section Details F.1
GATE.2 Section Details..... F.2
Lighting Details..... F.3

G. Performance Specifications

A | Graphic Standards

TYPEFACE FOR: GATEWAY SIGNS

ITC Franklin Gothic Demi Condensed

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

Downtown
NOT acceptable

123A
acceptable

123A
NOT acceptable

1 2 3 A
NOT acceptable

SPECIFICATIONS

The Franklin Gothic Demi Condensed Typeface is the required message font for vehicular sign types GATE.1 & GATE.2

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.

ITC Franklin Gothic Demi Condensed

This apostrophe is CORRECT.
PARK’S

This apostrophe is INCORRECT.
PARK'S

NOTES

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PROJECT NO.

SUBCONSULTANT

DATE 09/30/16

DRAWN BY: JC

REVISIONS

SHEET TITLE
Typography Specifications

SHEET NO.
A.1

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TYPEFACE FOR: GATEWAY SIGNAGE

Mrs Eaves Small Caps (with .25 stroke)

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	Downtown NOT acceptable
123A acceptable	123A NOT acceptable	123A NOT acceptable

SPECIFICATIONS

The Mrs Eaves Small Caps Typeface is the required message font for vehicular sign types GATE.1 & GATE.2

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.

MRS EAVES SMALL CAPS

This apostrophe is CORRECT.

Park's

This apostrophe is INCORRECT.

Park's

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REVISIONS

SHEET TITLE

Typography Specifications

SHEET NO.

A.2

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LETTER-SPACING

Inconsistencies in Letter Spacing

TYPEFACE 1

CARROLLTON

TYPEFACE 2

WELCOME

Corrected Letter Spacing

TYPEFACE 1

CARROLLTON

TYPEFACE 2

WELCOME

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.

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SHEET TITLE

Typography Specifications

REVISIONS

SHEET NO.

A.3

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P PAINTS	NAME	SPECIFICATION	APPLICABLE	PROCESS
P1	Moneta Gold Metallic	Matthews Paint MP21250	Standard for System (typ.)	Surface applied, exterior sign paint and protective top coat: MATTHEWS Acrylic Polyurethane with Clear Coat Satin finish.
P2	Graymore	Matthews Paint MP11163	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	Bluestone	Chistled face, smooth cut sides and back	Facade of bluestone is made of varying lengths of cut bluestone adhered to face nad sides of cut cinderblock core.

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 New Carrollton Gateway Signage. All media, vinyl, paint, and inks must be produced so that the colors match as specified on this page.

NOTE: See page G.2 of Technical Specifications for additional sample requests. (Part 1: Section 4 - D.5)

NOTES

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REVISIONS

SHEET TITLE

Paint and Materials Color Chart

SHEET NO.

A.4

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B | Placement Guidelines

Figure 1

Sign A: GATE.1

Exact measurements to be verified in field by fabricator prior to purchase of sign materials

Figure 2

Sign B: GATE.2

Exact measurements to be verified in field by fabricator prior to purchase of sign materials

SPECIFICATIONS

FIGURE 1 - Gateway Sign - Sign Placement Guideline
FIGURE 2 - Gateway Sign - 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 CIty 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.

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REVISIONS

SHEET TITLE

Sign Placement Guidelines

SHEET NO.

B.1

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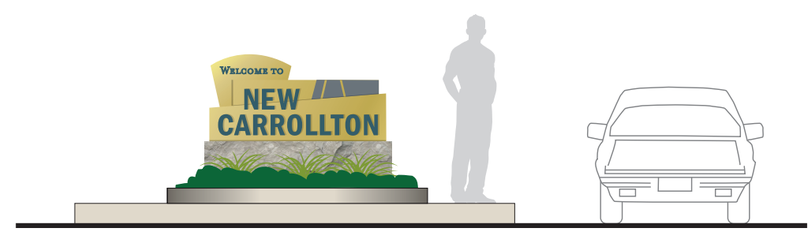
C | Menu of Sign Types

GATE.1
Primary City
Gateway



GATE.2
Secondary City
Gateway

SPECIFICATIONS

MENU OF SIGN TYPES
Gateway 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. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
4. All exposed edges painted to match adjacent face.
5. Fabricator Shop Drawings shall be signed and sealed by MD Registered Structural Engineer.

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REVISIONS

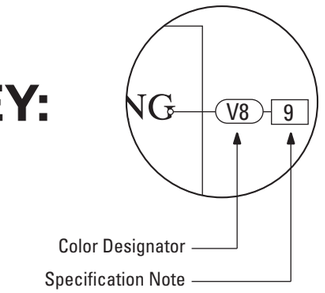
CLIENT / PROJECT
New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE
Gateway Signage Overview

SHEET NO.
C.1

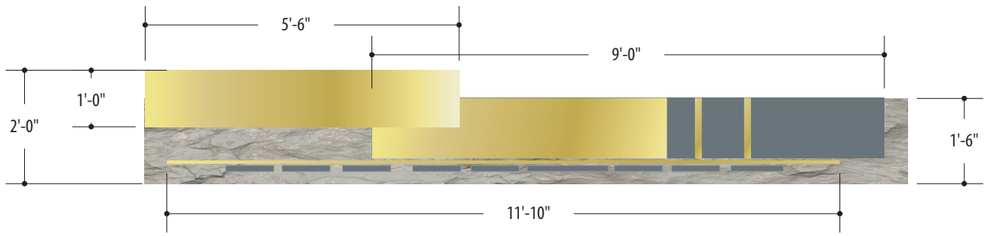
KEY:



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

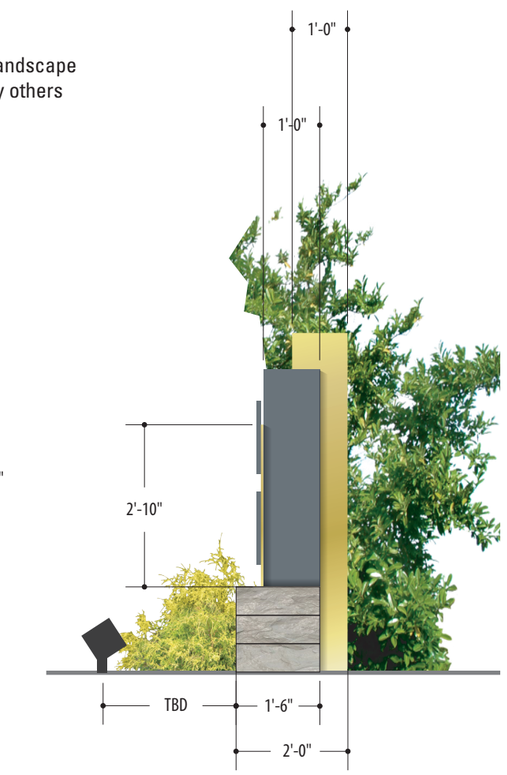
The Specification Notation is found on the same page as the drawings.

D | Design Intent Drawings



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

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:** Primary Gateway

1. **GATEWAY BASE**
   MATERIAL: Partition cinderblock core with bluestone facade made of varing lenths of cut bluestone. Chistled face, smooth cut sides and back.
   STONE STYLE: Bluestone
   MOUNTING: per manufacturers specifications

2. **ALUMINUM SIGN CABINET**
   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

3. **CUT ALUMINUM LETTERS**
   MATERIAL: 1" thk cut aluminum individual letters.
   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 Aluminum Panel

4. **ALUMINUM PANEL**
   MATERIAL: 1/2" thk cut aluminum pael
   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 sign cabinet

5. **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

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 City of New Carrollton 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 The City of New Carrollton 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. Welds: All welds shall be ground smooth, paint all seams. Hardware: Exposed hardware shall be tamper proof fasteners.
3. All exposed edges painted to match adjacent face.
4. Fabricator Shop Drawings shall be signed and sealed by MD Registered Structural Engineer

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CLIENT / PROJECT
New Carrollton, MD
Gateway Signage

PROJECT NO.

SUBCONSULTANT

DATE 09/30/16

DRAWN BY: JC

REVISIONS

SHEET TITLE
Sign Type GATE.1
Borough Gateway

SHEET NO.
D.1

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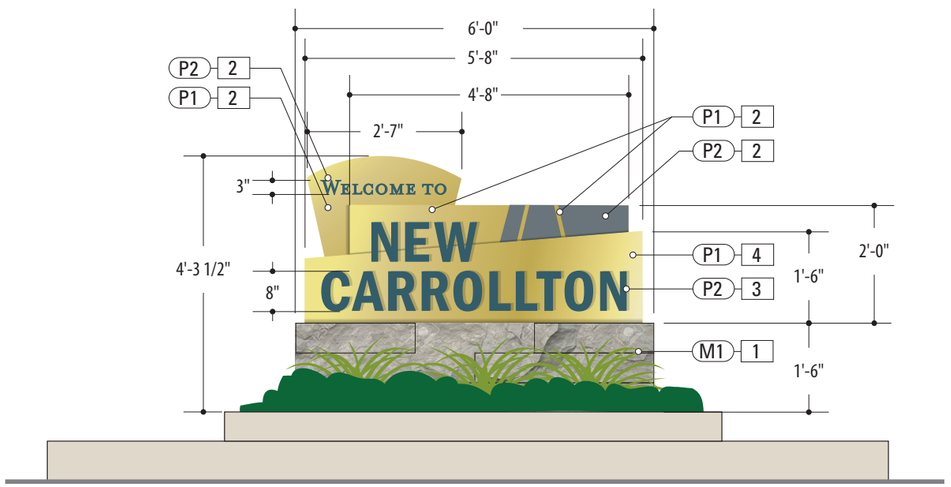
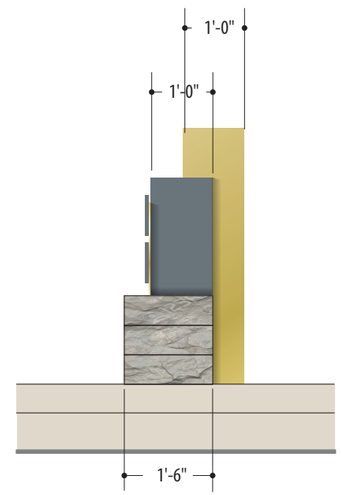
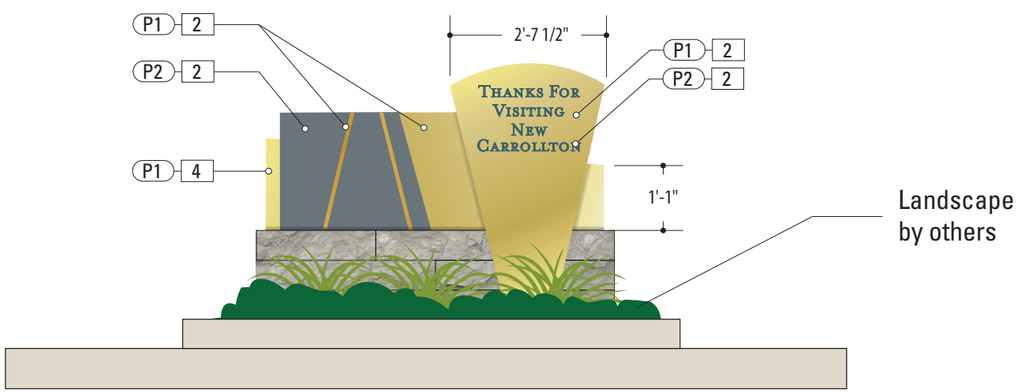
1 Top View: GATE.2
SCALE: 3/8" = 1'-0"



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



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



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

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

1. **GATEWAY BASE**
   MATERIAL: Partition cinderblock core with bluestone facade made of varing lenths of cut bluestone. Chistled face, smooth cut sides and back.
   STONE STYLE: Bluestone
   MOUNTING: per manufacturers specifications

2. **ALUMINUM SIGN CABINET**
   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

3. **CUT ALUMINUM LETTERS**
   MATERIAL: 1" thk cut aluminum individual letters.
   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 Aluminum Panel

4. **ALUMINUM PANEL**
   MATERIAL: 1/2" thk cut aluminum pael
   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 sign cabinet

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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REVISIONS

SHEET TITLE
Sign Type GATE.2
Borough Gateway

SHEET NO.
D.2

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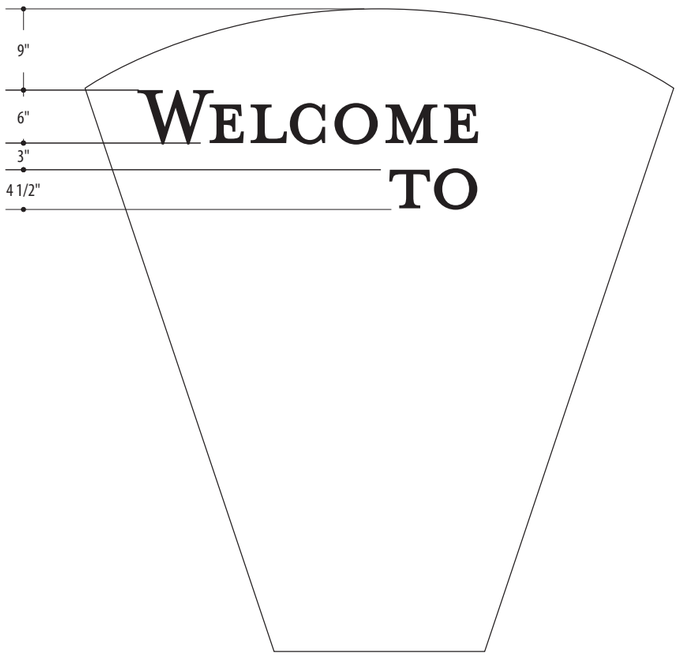
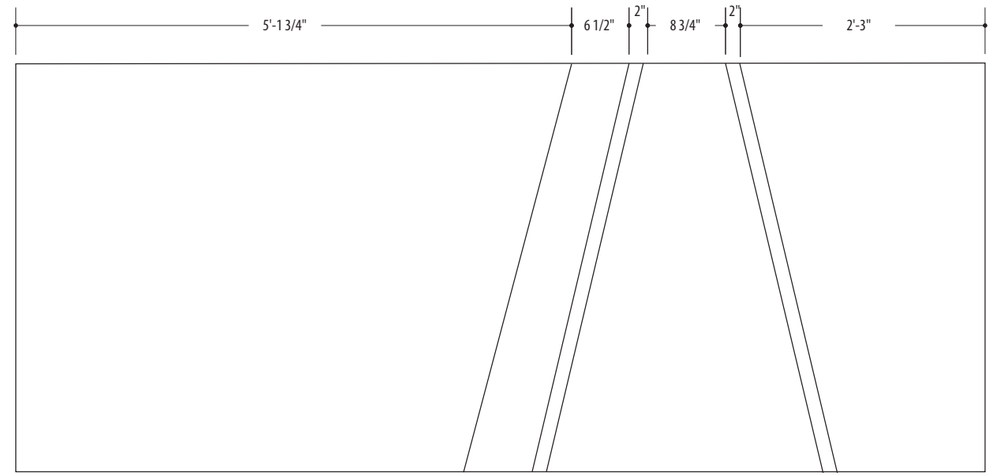
E | Graphic Layouts

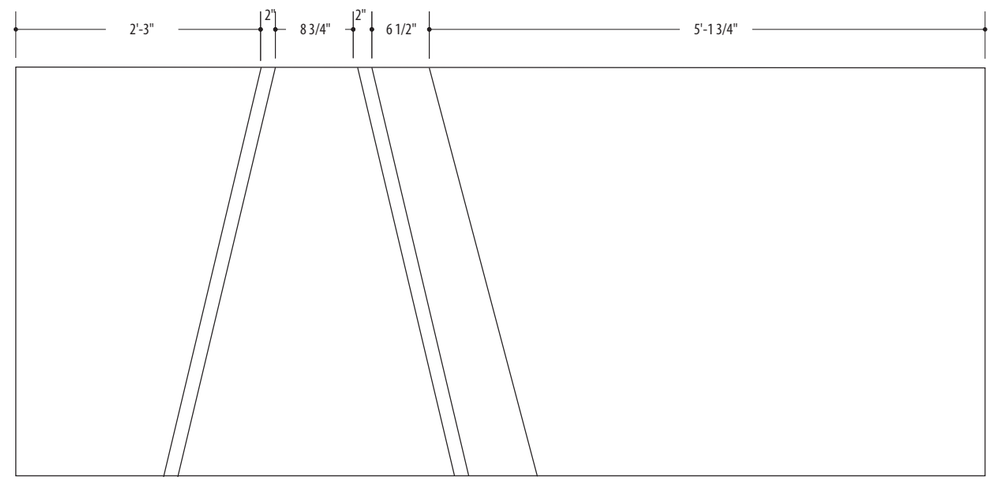


FRONT

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

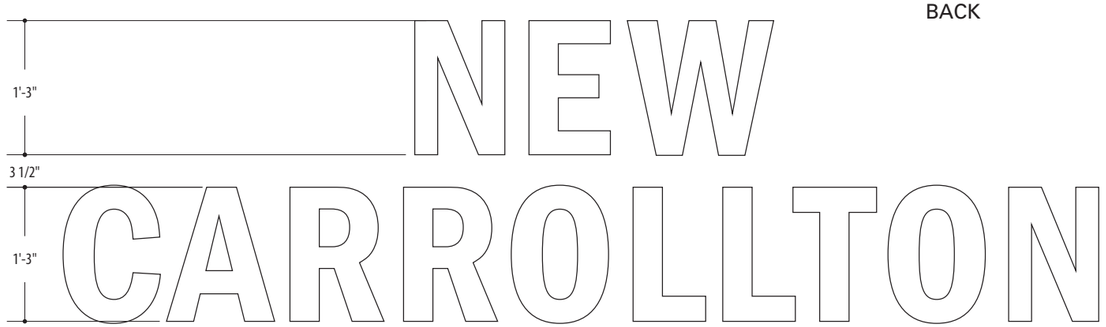


FRONT



BACK

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



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

SPECIFICATIONS

SIGN PANEL LAYOUTS:

NOTES:

- Provided for illustrative purposes only.
- Panel layouts for ALL sign locations shall be included in shop drawings for review by designer and 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.
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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

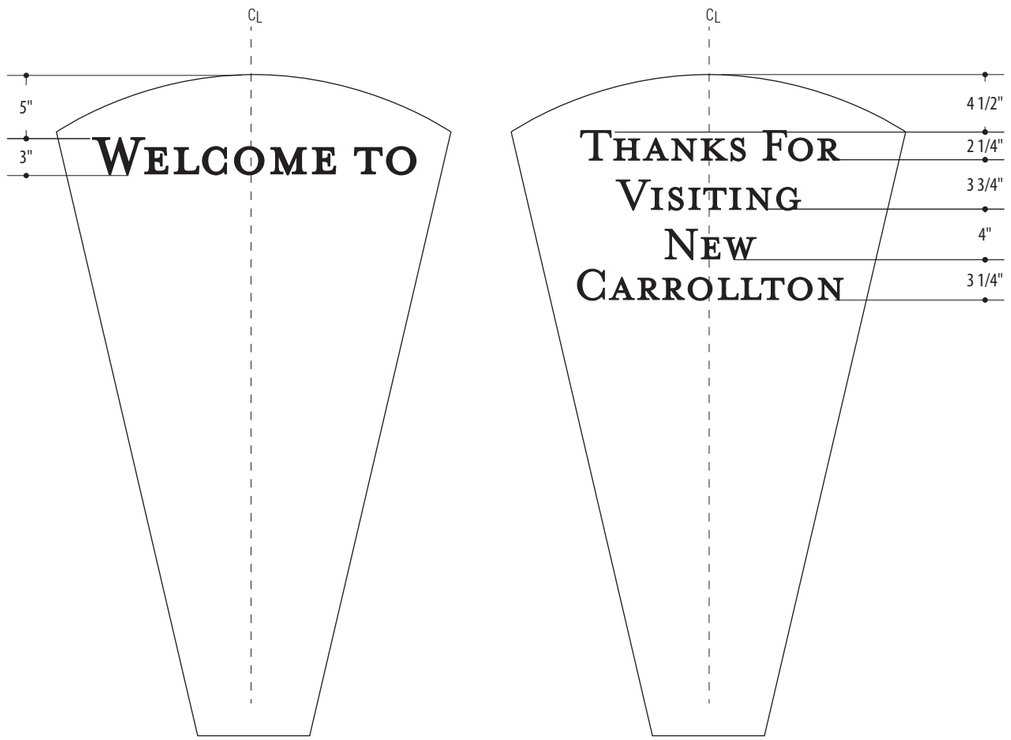
PROJECT NO.

SHEET TITLE

GATE.1
Layout Drawings

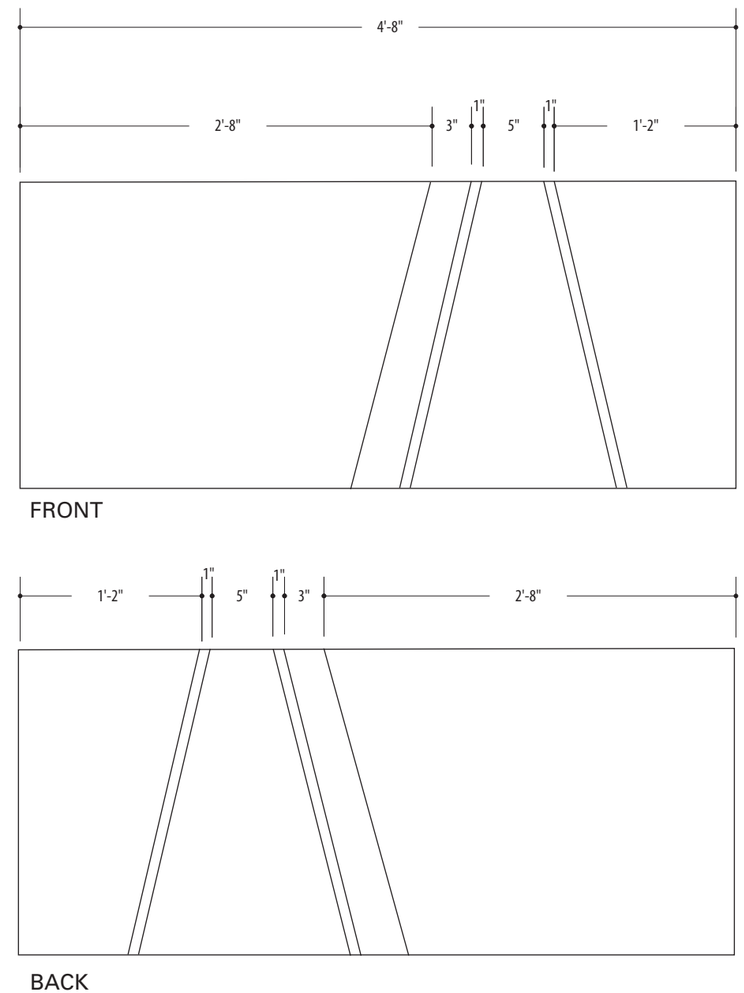
SHEET NO.

E.1



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

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



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

SPECIFICATIONS

SIGN PANEL LAYOUTS:

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5. Fabricator Shop Drawings shall be signed and sealed by MD Registered Structural Engineer.

ENVIRONMENTS & EXPERIENCES

merje

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

DATE 09/30/16

DRAWN BY: JC

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

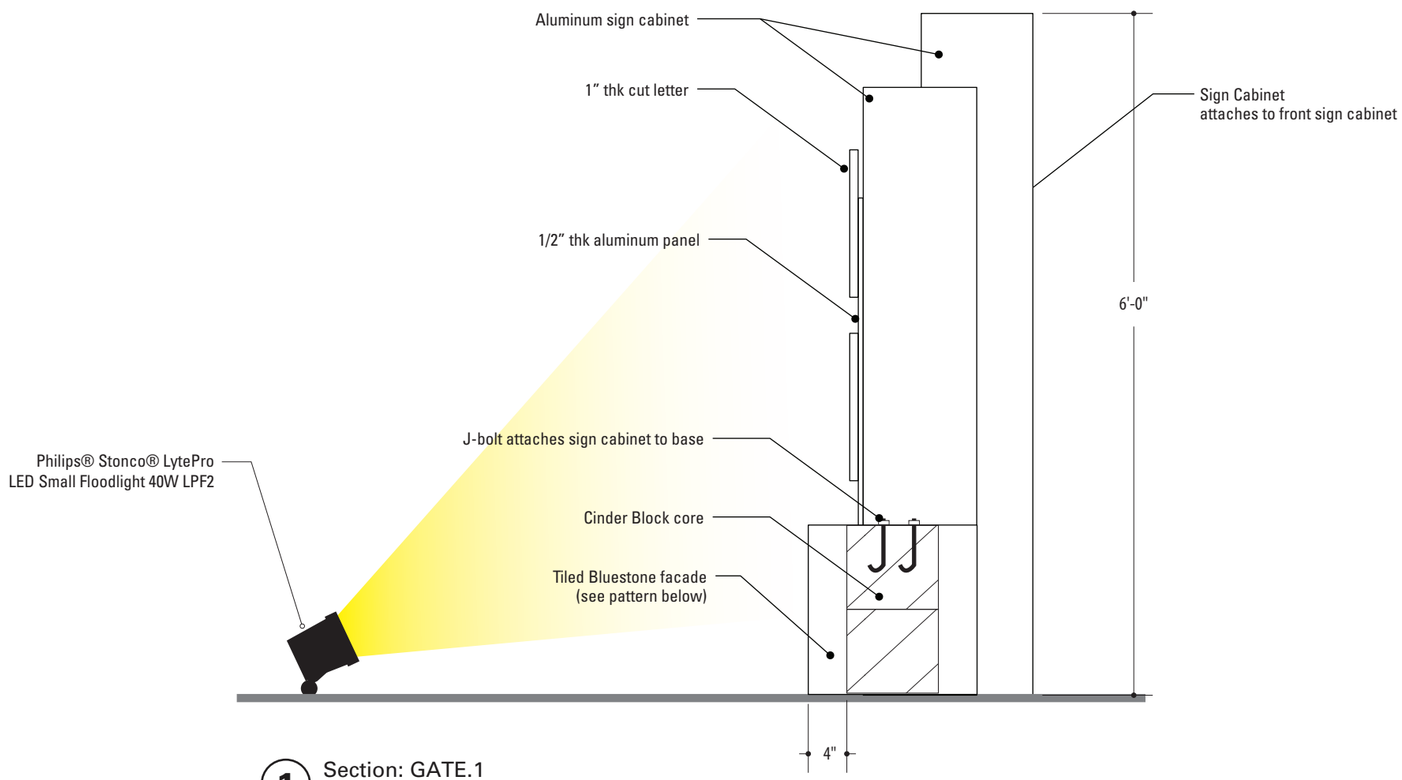
SHEET TITLE

GATE.1
Layout Drawings

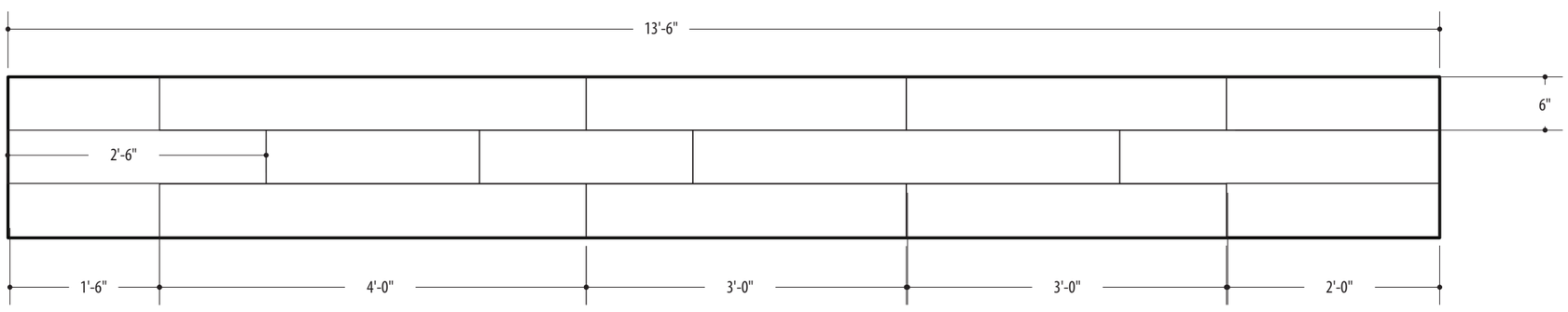
SHEET NO.

E.2

F | Construction Details



1 Section: GATE.1
SCALE: 3/4" = 1'-0"



2 Bluestone tile detail: GATE.1
SCALE: 3/4" = 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 City's 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 City's 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 SIGN AND A MARYLAND 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 MARYLAND SHA 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. Welds: All welds shall be ground smooth, paint all seams.
3. Hardware: All exposed hardware shall be tamper proof fasteners.
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REVISIONS

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New Carrollton, MD
Gateway Signage

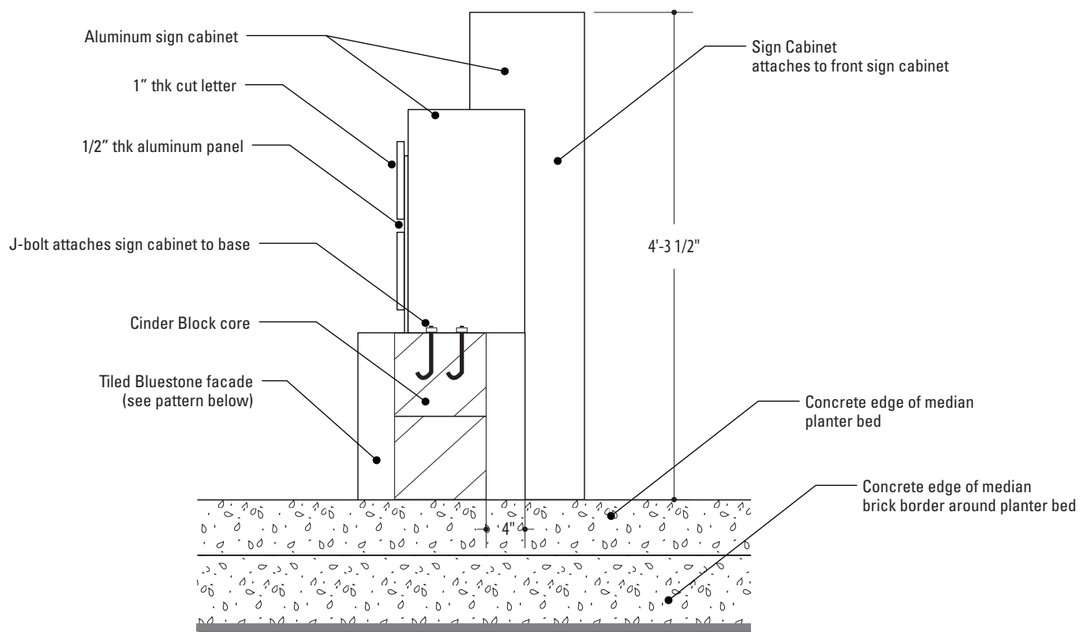
PROJECT NO.

SHEET TITLE

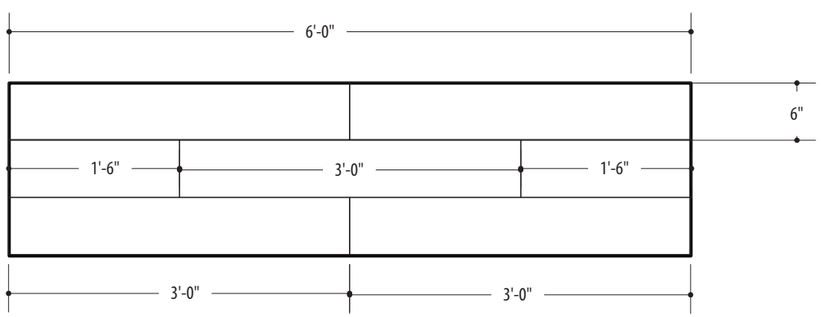
GATE.1
Construction Details

SHEET NO.

F.1



1 Section: GATE.2
SCALE: 3/4" = 1'-0"



2 Bluestone tile detail: GATE.2
SCALE: 3/4" = 1'-0"

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

GATE.2
Construction Details

SHEET NO.

F.2

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-FL-K-F1-PCB-1-BZ

Series / # of COB[2]	Drive Current	Color Temperature	Distribution	Mounting	Options	Voltage	Finish
LPF2 –	E –	–	FL –	K –	–	–	
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[12]	White Wall Adapter
LPFW10DGY[12]	Textured Dark Gray Wall Adapter

Stocked Luminaires – Ordering Guide[13,14,15,16]

Catalog #	Description	Master Pack, QTY	UPC Code
STKLPF2K-8	LPF2, Knuckle Mount, 120-277V	Yes, 4	786034956932

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. 'DM25' only available 120-277V and dims to 25% for 6 hours.
9. Dynadimmer is suitable for use from -30°C to 40° temperature ambient only.
10. Limited quantities stocked in our Carrollton RDC.
11. Contact factory for availability of large order quantities.
12. LPFW10WH and DGY are Made to Order only.
13. All stock products are 'BZ' Textured Dark Bronze, '4K' Neutral White and 'FL' 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 at 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

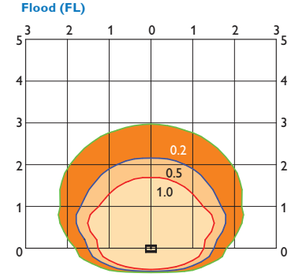
Performance Specifications

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 compliance 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 +/- 4%.

Photometrics

Flood (FL)



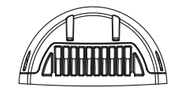
LPF2 40W - 12' Mounting Height, 30° Tilt

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.

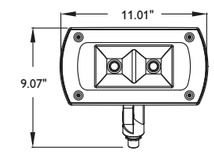
LYTEPRO LED SMALL FLOODLIGHT 40W LPF2

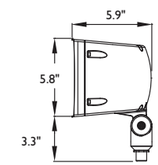
Dimensions



Approximate luminaire weight – 7.3lbs (3.3kg)

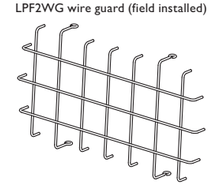
Fixture EPA - 0.39 sq. ft.





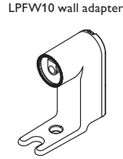
Accessory Details (must be ordered separately)

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 City planning and engineering staff following the installation of the lights.

QUANTITY: 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.
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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Philips Stonco Ground Lighting

SHEET NO.

F.3

G | Performance Specifications

SIGNAGE TECHNICAL SPECIFICATIONS

Section 10 14 00

PART 1 - GENERAL

1. Description

A. Project Information
1. Project Location: The City of New Carrollton, MD
2. Owner: The City of New Carrollton
3. Administrator: Timothy George
4. Design Team: MERJE - West Chester, PA

B. Related Documents
1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

C. Project Summary
1. Project consists of Gateway signs.
2. General sign components consist of footings, custom gateway bases, surface painted sign cabinets and painted lettering.
3. All exposed surfaces shall receive a graffiti protectant clear coating.
4. Installations shall require manual and machine digging/drilling into concrete or brick paver sidewalks as well as soil. Where unforeseen conditions present themselves, the fabricator will be responsible for engineering spread footers, meeting the same requirements as outlined in the design intent drawings at no additional cost to the owner.
5. On-going coordination and sequencing will be required with current streetscape programs based on construction and installation schedules. In order to minimize impacts to existing utilities, the fabricator is responsible for contacting the One-Call system prior to installation and shall identify this process withIn a critical path project schedule chart.
6. Representatives from the Owner and Design Team will be available to review locations where a conflict presents itself. Custom mounting methods may be required for locations that interfere with underground utilities.
7. Breakaway poles are required at locations along State and City roads, The final design and certification of these poles shall be the responsibility of the Fabricator. Approval of these designs is required by the Design Team and Owner.

D. Allowances
1. Allowances for signage are specified in Section 01 21 00 “Allowances”

E. Contract
1. Project will be constructed under a general construction contract.

F. Reference Standards
1. AA: Aluminum Association, Washington, DC.
2. AAMA: American Architectural Manufacturer’s Association
3. ACI: American Concrete Institute
4. ADA-ABA Accessibility Guidelines: U.S. Architectural & Transportation Barriers Compliance Board’s “Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines.”
5. ANSI: American National Standards Institute.
6. ASTM: American Society for Testing and Materials, Philadelphia, PA, as published in “Compilation of ASTM Standards in Building Codes.”
7. AWS: American Welding Society, as published in AWS D1.1 “Structural Welding Code, Steel,” and AWS D1.2 “Structural Welding Code, Aluminum.”
8. ICC: International Code Council, Inc.
9. NAAMM: National Association of Architectural Metal Manufacturers, Glen Ellyn, IL, as published in “Metal Finishes Manual.”
10. NFPA: National Fire Protection Association
11. UBC: United States Uniform Building Code.
12. UL: Underwriters Laboratories, Inc., Northbrook, IL

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

2. Scope of Work

A. Included Work
1. Provision of labor, materials, and equipment necessary to complete the work of this section, which shall include but not be limited to the following Sign Types:
   a. Sign Type GATE.1 - Primary Gateway
   b. Sign Type GATE.2 - Secondary Gateway
2. Attention is directed to Fabricators responsibilities for existing conditions survey, existing sign removal, existing interfering item removal, surface restoration, phased installation, submittals and shop drawings, engineering, and coordination with other trades as specified.

3. Coordination

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

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

4. Action Submittals

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

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

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

PERFORMANCE SPECIFICATIONS

NOTES:

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Performance Specifications

SHEET NO.

G.1

4. Drawings shall indicate proper font style, letter spacing and dimensions of character heights.
5. Drawings shall be drafted to an architectural scale clearly indicated on the drawing.

D. Samples
1. Submit color and material samples showing the full range of colors, textures and patterns.
2. Mount, display or package samples in a manner as to facilitate review of qualities indicated.
3. Prepare samples to match designers sample where so indicated. Attach label on an unexposed side that includes the following:
   a. Generic description of sample
   b. Product name or name of Product Manufacturer
   c. Sample Source
4. Samples for Verification
   a. Examples of all graphic image process, including materials, methods, colors and finishes for maps, imagery, letters, numbers and other graphic devices.
   b. Three sets of all color samples, including paint and vinyl samples on thin aluminum plates (approx. 3” x 6”).
   c. Two sets of material samples
   d. Sample fasteners, hardware and mounting hardware sufficient to obtain clear ideas of how signs are fabricated, made changeable and installed.
5. Submit full scale, non-returnable workmanship samples of the following Sign Types:
   a. Sign Type GATE.2 - Secondary Gateway
      Please send two cut aluminum letters to scale painted P2 mounted flush to a 1/2" aluminum panel painted color P1 from color chart on page A4.
      Not to be job used. Delivery to Designer for approval.
6. Message Layouts (message schedule): Includes Sign Types noted in Design Intent Drawings.
   a. Fabricator shall submit scale elevations of each sign location for approval of message, typographic spacing, line breaks, alignments, and graphic layout, using same designations as Design Intent drawings for Owner and Designer approval.
   b. Scale elevations shall include: graphic representation of all sign components (ex. Sign Panel, Header Panel, Mounting Bracket, etc.), project colors, and all copy, graphic icons, and symbols.
7. Typefaces
   a. Submit full sample of each typeface specified, at min. 5/8“ cap height on 11” x 17” laser prints, for approval prior to message layout preparation and sign fabrication.
   b. Sample(s) shall include uppercase, lowercase, numerals, and punctuation, as well as samples of specified letter spacing and word spacing.
8. Artwork
   a. Submit artwork of all symbols and logos to be used, at specified heights in design intent drawings on 11” x 17” laser prints, for approval prior to message layout preparation and sign fabrication.

E. Requests for Information (RFIs)
1. Fabricator shall allow four (10) business days for response to each RFI from the date of receipt.
2. Fabricator shall not submit more than two (2) RFI per business day.
3. Fabricator shall maintain a tabular log of RFIs and submit RFI log at progress meetings.

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

5. Informational Submittals

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

6. Closeout Submittals

A. Maintenance Data
1. For signs to include in maintenance manuals.

B. As-Built Drawings
1. For ongoing reorders.

7. Quality Assurance

A. Engineering
1. The Drawings in this document represent design intent only.
2. Fabricator shall be responsible for the proper engineering of all items to withstand the conditions and abuses of their environment.
3. Fabricator shall inform the Owner of any product and/or material deficiencies or incompatibilities that will prevent the signs from withstanding the conditions and abuses of their environment. Signs must be securely mounted.
4. Fabricator is responsible for suggesting alternate fabrication or installation methods, if required to prevent theft, vandalism, and/or to improve structural stability.
5. All items shall be engineered to accommodate all load requirements as determined by Fabricator. Load requirements shall include, but shall not be limited to, sheer load and design load as required. Signs shall be engineered and installed so that final mounting weight shall not affect ongoing stability of mounted sign or surrounding conditions.

B. Regulatory Compliance
1. All installation work by Fabricator shall comply with applicable municipal, state and federal codes, sign ordinances, ICC/ANSI A117.1, DOJ 2010 Standards for Accessible Design (ADA) guidelines and NFPA 101 fire/life safety signing.
2. All OSHA safety requirements will be implemented during fabrication and installation as needed or required to comply with local Owner or City safety regulations.

PERFORMANCE SPECIFICATIONS

NOTES:

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REVISIONS

CLIENT / PROJECT
New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE
Performance Specifications

SHEET NO.
G.2

C. Protection and Storage
1. Fabricator is responsible for storage of signs and assemblies and protection from damage at the shop, in transit and until installed in place, complete, inspected and accepted by Owner.
2. Signs should be packaged to prevent damage or deterioration during shipment, handling, storage and installation. Maintain protective covering in place and in good repair until removal is necessary.
3. Deliver signs only when the site and services are ready for installation work to proceed.

D. Inspection
1. Production materials, samples and paints, fabricated or partially fabricated items shall be available for inspection, on-site or in the shop by the Owner or Designer during the manufacturing process and until final delivery, installation and acceptance.
2. Shop inspection and/or approvals in the shop do not guarantee final acceptance of installed work.

8. Workmanship / Performance

A. General
1. Assemblies and components shall be completely fabricated and finished in shop; to the extent practical, all work shall be delivered to the job site completely assembled.
2. Construct to accurate detail and dimension as shown and reviewed on Shop Drawings.
3. Except where indicated, exposed fasteners shall not be visible on finished work.

B. Seams and Joints
1. All components shall fit accurately with hairline joints.
2. Added joints shall be filled and ground smooth, and shall not be visible in the finished work.
3. Gaps are not acceptable in finished work.

C. Metal Signs and Supports
1. Exposed surfaces shall be uniformly flat and smooth, without distortion, pitting, waviness or 'oil-canning,' and free of blemishes.
2. Exposed metal edges shall be eased to the specified radius dimensions where indicated on Drawings.

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

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

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

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

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

9. Warranty

A. Fabricator shall warranty all products above and beyond, if necessary, manufacturer supported warranties for product performance, as follows:
1. Metal Shapes, Pre-finished Sheeting, Components and Extrusions:
   a. Not less than ten (10) years.
2. Paint Finishes:
   a. Not less than ten (10) years.
3. Protective Clear Coating:
   a. Not less than ten (10) years.
4. Mounting Hardware:
   a. Not less than ten (10) years.
5. Lamination:
   a. Not less than ten (10) years.
6. Acrylic Shapes & Sheets:
   a. Not less than ten (10) years.
7. Vinyl Graphics & Letters:
   a. Not less than ten (10) years.
8. Screen Printed Graphics and Letters:
   a. Not less than ten (10) years.
9. General:
   a. All products not specifically indicated above will have warranty of no less than five (5) years.

B. Fabricator shall guarantee all work under this Contract for a period of not less than five (5) years from the date of Substantial Completion, during which time the Contractor shall repair or replace work in this Contract which has failed as a result of defects in materials, workmanship, or installation. Submit written warranty signed by Contractor and Installer to Owner for documentation. Failures include, but are not limited to the following:
1. Deterioration of metal and finishes beyond normal weathering.
2. Material failure.
3. Deterioration of surface applied letters, graphics, or messages.
4. Signs not remaining true and plum on their supports, whether mechanical or other.
5. Fading of colors, printed graphics and letters or finishes when matched against a sample of the original color and material.

Part 2 - Products

1. Materials

A. Aluminum
1. Aluminum Plate: Aluminum plate for all signs shall conform to ASTM-B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, to the dimensions and thickness indicated on drawings.
2. Aluminum shall be finished as indicated on Drawings. Finish shall be uniformly applied without waviness, 'oil-canning,' or other imperfections. Exposed aluminum shall exhibit no markings, scratches, or blemishes.
3. Clear anodic finish: Manufacturer's standard Class 1 clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) mechanical finish, complying with AAMA 611 and AAMA 2605.

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REVISIONS

CLIENT / PROJECT
New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE
Performance Specifications

SHEET NO.
G.3

B. Structural Steel:
1. Hot-Rolled Structural-Steel Shapes: ASTM A 36/A 36M or ASTM A 529/A 529M.
2. Steel Tubing or Pipe: ASTM A 500, Grade B.
3. Steel Members Fabricated from Plate or Bar Stock: ASTM A 529/A 529M or ASTM A 572/A 572M, 42,000-psi (290-MPa) minimum yield strength.
4. Bolts for Steel Framing: ASTM A 307 or ASTM A 325 (ASTM A 325M) as necessary for design loads and connection details.
5. For steel exposed to view on completion, provide materials selected for surface flatness, smoothness, and freedom from surface blemishes. Do not use materials whose surfaces exhibit pitting, seam marks, roller marks, rolled trade names, or roughness.

C. Acrylic
1. Clear Acrylic: For sign component construction. Color: Clear. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.
2. Clear Matte Acrylic: For sign component construction. Color: Clear Matte. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.
3. Clear Non-Glare Acrylic: For sign component construction. Color: Clear Non-Glare. Material to be consistent, rigid and stable, conforming to ASTM D4802-10 for index of refraction; specific gravity; luminous transmittance; haze; water-absorption; shrinkage; thermal stability; deflection temperature under flexural load; tensile strength and elongation at break; impact strength; spectral transmittance of Type UVF and UVT sheet; abrasion resistance; coating adhesion; and chemical resistance.

D. Polycarbonate
1. Polycarbonate shall be UV resistant with minimum 5 year written warranty against breakage, yellowing and loss of light transmission.

E. Adhesives and Tapes
1. Foam Tape
   a. Provide 3M double coated foam tape 4016, 4032 or equal.
   b. Adhesive shall be A-20 Acrylic
   c. Carrier shall be urethane foam
2. Laminating Adhesive
   a. A Provide Flexcon V9590 D/FPFW clear or equal.
3. VHB Foam Tapes
   a. Provide 3M Scotch VHB 4930
   b. Adhesive shall be Acrylic VHB
   c. Carrier shall be closed cell foam
4. Silicone Adhesive
   a. TTs-00230C, ASTM C920 Clear, (Acetoxy Cure)
5. Epoxy
   a. 3M DP-110 or equal

F. Pressure Sensitive Vinyl Legends
1. Use 3M High Intensity Prismatic Reflective Sheeting Series 3930, with 3M ElectroCut Film 1170 overlaminate.
   a. Custom color background and characters printed with 3M inks directly.
   b. Series 3930 sheeting incorporates a pressure sensitive adhesive and should be applied to the sign substrate at temperature of 65˚F/18˚C or higher by any of the following methods:
      1. Mechanical squeeze roll applicator – refer to 3M Information Folder (IF) 1.4 for more details.
      2. Hand squeeze roll applicator – refer to 3M IF 1.6 for more details.
   c. Splices: Series 3930 sheeting must be butt spliced when more than one piece of sheeting is used on one piece of substrate. The sheeting pieces should not touch each other. This is to prevent buckling as the sheet expands in extreme temperature and humidity exposure.
   d. For traffic sign use, substrates found to be most reliable and durable are properly prepared aluminum sheets and extrusions. Plastic substrates are NOT acceptable.
   e. High intensity prismatic sheeting may be processed into traffic signs by any of the imaging methods describe below:
      1. Screen Processing: Series 3930 sheeting may be screen processed into traffic signs before or after mounting on a sign substrate, using 3M Process Colors Series 880I or Series 880N. Refer to 3M IF 1.8 for more details.
      2. Thermal Transfer Printing: Series 3930 sheeting may be imaged with 3M Thermal Transfer Ribbon Series TTR2300 in conjunction with the Matan SprinG3 or Matan Spot4 thermal transfer printers. Additionally, series 3930 sheeting may be imaged by the Durst RHO 161 TS printer, by Sherine Industries: (604) 513-1887. All applications utilizing the above printers must be covered with 3M ElectroCut Film 1170 Clear UV/ Anti-Graffiti overlaminate.
      3. 3M ElectroCut Film Series 1170 may be used to provide transparent colored background copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Product Bulleting 1170 for fabrication procedures.
      4. Vinyl Graphic Films: Scotchcal Vinyl Series 7720 and Series 7725 may be used to provide copy for traffic control signs on high intensity prismatic sheeting. Both materials then must be covered with 3M ElectroCut Film 1170 Clear UV/Anti-Graffiti overlaminate. Refer to Scotchcal product literature for more information.
   f. All of the above methods utilizing series 3930 reflective sheeting must be warranted for a period of eight (8) years and shall not excessively fade, discolor, crack, craze, peel, blister or lose reflectivity such that the signs become visually unsuitable for their intended purpose.
2. Use 3M Scotchcal brand graphic film. Material shall consist of a tough, flexible, and pigmented vinyl film and shall be processed with compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.
3. Use 3M Scotchlite brand reflective graphic film. Material shall consist of transparent plastic having a smooth, flat outer surface embedded with spherical lens elements. Material shall be capable to being processed with

PERFORMANCE SPECIFICATIONS

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Performance Specifications

SHEET NO.

G.4

compatible screen printing inks and clear coatings as recommended by the film manufacturer. The film shall be precoated with pressure-sensitive adhesive. The adhesive shall be protected by a treated paper liner which shall be easily removable without soaking in water or other solvents. The sheeting shall be guaranteed against delamination for a period of 5 years.

2. FINISHES

A. Paints

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

B. Metals

1. Aluminum Components: Finish for all aluminum components shall be #220 Inline Brush with eased corners and brushed edges
2. Sign components shall be pre-drilled in proper locations prior to any pre-treatment process.
3. Pretreatment: All surfaces shall be cleaned, primed, and pre-treated as required prior to finishing.
4. Clear Coat: Apply protective clear coat to all painted, printed, and vinyl surfaces. Contractor shall verify all product warranties.
5. Finished work shall be crisp, accurate, visibly free from flow lines, streaks, bleeding, blisters or other imperfections.

C. Acrylic

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

3. General

A. Custom High Pressure Laminate Graphic Panels

1. Description: Custom High Pressure Laminate (CHPL) material composed of required layers of phenolic resin impregnated brown kraft filler paper to produce specified thicknesses, surfaced by a layers of melamine overlay, graphics imaged on saturation grade paper with UV resistant pigment based process color inks, and with an optically clear UV overlay that will resist no less that 99% of all sunlight and UV rays, as well as provides a graffiti resistant surface that allows for removal with standard cleaners.
2. Process: For purposes of this specification, layers of material described A.1 are to be assembled, and heat / pressure consolidated at approximately 1200 PSI at temperatures exceeding 275° Fahrenheit at manufacturer's prescribed time frames. All manufacturing processes of printing, pressing, machining, finishing and crating to be accomplished within a single stand alone manufacturing facility to ensure consistent quality control and providing standard product delivery times of three weeks.
3. Artwork: The graphic material and images are to be supplied by and under the supervision of the Designer or Owner. To include mechanicals, text, photographs, transparencies, film and other graphic source materials incorporated into digital graphic production artwork files in manufacturer's required file formats. All graphics must be assembled by computer designers familiar with and experienced in the process of digital printing and submitting production artwork files that meet the artwork requirements of the manufacturer.
4. Acceptable Manufacturer: iZone Imaging, 2526 Charter Oak Dr., Suite 100, Temple, TX 76502. Tel: 888.464.9663, Email: info@izoneimaging.com, Web: http://www.izoneimaging.com
   - or Approved Equal Vendor

B. Dye-Sublimated Printed Graphic Panels

1. Process: Product substrates selected shall be able to withstand the 350 degree F (177 degree C) temperature of the powder coating oven. This includes and is not limited to aluminum, steel, glass, MDF, ceramic and high temperature plastics.
2. Characteristics: Coating shall be super durable polyurethane powder coated finish that is resistant to abrasion, humidity and corrosion. It shall be anti-graffiti, scratch resistant and non-combustible. The coating process shall be applicable for both interior and exterior applications. Coating shall withstand high traffic and extreme weather.
3. Capability: Embed process capability shall allow parts from the size of a button to 24 feet (7315 mm) in length. Includes dimensional objects, flat and embossed sheets, extruded profiles, and folded panels.
4. Warranty: Manufacturer's Warranty: Provide manufacturer's standard warranty for up to 10 years depending on location, substrate, environment and amount of direct sunlight.
5. Acceptable Manufacturer: Direct Embed Coating Systems; 6 Morris St., Paterson, NJ 07501. Tel: 954.825.0410, Email: info@directembedcoating.com, Web: http://www.directembedcoating.com.
   - or Approved Equal Vendor

Part 3 - Execution

1. Examination

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

2. Installation

A. General

1. Install signs using mounting methods indicated and according to manufacturer's written instructions.
2. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
3. Install signs so they do not protrude or obstruct according to the accessibility standard.
4. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
5. Corrosion Protection: Coat concealed surfaces of exterior aluminum in

PERFORMANCE SPECIFICATIONS

NOTES:

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Performance Specifications

SHEET NO.

G.5

contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Room-Identification Signs and Other Accessible Signage: Install in locations on walls as indicated and according to accessibility standard.

C. Mounting Methods:

1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
   a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
   b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.
2. Projecting Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
   a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
   b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.
3. Through Fasteners: Drill holes in substrate using predrilled holes in sign as template. Countersink holes in sign if required. Place sign in position and flush to surface. Install through fasteners and tighten.
4. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
5. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
6. Double-Sided Tape: Clean bond-breaking materials from substrate surface and remove loose debris. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.
7. Shim-Plate Mounting: Provide 1/8-inch- (3-mm-) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach signs to plate using counter-sunk expansion anchors method specified above.

D. Field-Applied, Vinyl-Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.

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

3. ADJUSTING AND CLEANING

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

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

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

End of Section 10 14 00NAAMM: National Association of Architectural Metal Manufacturers, Glen Ellyn, IL, as published in "Metal Finishes Manual."

1. NFPA: National Fire Protection Association
2. UBC: United States Uniform Building Code.
3. UL: Underwriters Laboratories, Inc., Northbrook, IL

D. Definitions

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

4. Scope of Work

A. Included Work

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

GATE.1..... D.1
GATE.2 ..... D.2

2. Attention is directed to Fabricators responsibilities for existing conditions survey, existing sign removal, existing interfering item removal, surface restoration, phased installation, submittals and shop drawings, engineering, and coordination with other trades as specified.

5. Coordination

A. Pre-Construction Meeting

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

B. Coordination / Templates

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

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Performance Specifications

SHEET NO.

G.6

6. Action Submittals

A. General

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

B. Revisions and Resubmittals

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

C. Shop Drawings

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

SIGNAGE TECHNICAL SPECIFICATIONS

Section 10 14 00

PERFORMANCE SPECIFICATIONS

NOTES:

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REVISIONS

CLIENT / PROJECT

New Carrollton, MD
Gateway Signage

PROJECT NO.

SHEET TITLE

Performance Specifications

SHEET NO.

G.7