TAKOMA PARK
STREETSCAPE MANUAL

JULY 2016

takomaparkmd.gov

Takoma Park Streetscape Manual

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Foreword

Takoma Park's streetscape is a vital and significant part of our city. Our streetscape reflects not only up-to-date amenities that guide our bicycles, pedestrians, and automobiles safely over our streets and walkways. It also reflects continuity with our history and with the values that bind us together as a residential community. The streetscape is one element -- together with our houses, gardens, trees, shops, parks, schools, and playgrounds -- that helps form our identity and signifies that we are Takoma Park.

Our streetscape, whether in commercial or residential neighborhoods, is part of the built environment and, as such, should be planned and designed with intention. Safety, technical innovation, and cost-efficiency should be thoughtfully melded with the City's heritage as a unique community in the Washington metropolitan area. This heritage prizes our resistance to the placement of a freeway in our midst and our continued resistance to unnecessary impacts caused by motor vehicles. It celebrates gardens and trees and the beauty of both the natural environment and the things we build in it. The City's residential neighborhoods hold the cluttered and frenetic pace of urban life at just enough distance to permit the safe and quiet enjoyment by families and all residents of the thing they value most: the community itself.

The built environment of Takoma Park should reflect and promote this heritage, even as we embrace the vibrant and diverse growth of the urban landscape around us.

Excerpted from "Takoma Park's Residential Streetscapes: Safeguarding our Distinctive Visual Character," the final report of the Residential Streetscape Task Force, presented to the Takoma Park City Council on March 15, 2015.

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Purpose and Background

The City maintains hundreds of pieces of furniture, lighting, wayfinding signs, bike racks, etc. on public rights-of-way in residential neighborhoods and commercial districts. Functional, accessible, and well maintained public spaces improve quality of life in Takoma Park by fostering community, enhancing business vitality, and supporting environmental and economic sustainability. The Takoma Park Streetscape Manual provides a mapped inventory of all streetscape elements in public rights-of-way installed by the City that includes manufacturers' specifications and vendor information to ensure consistency of installation and replacement in locations throughout the City.

Within the pages of the Streetscape Manual are an overview of streetscape elements, including product name and manufacturer, dimensions, colors, installation instructions and locations, and applicable customization details. Most pages have a map indicating element locations by color or size (as of 2015). Product specifications provide additional detail, including vendor-specific color options, assembly, and installation. While proprietary products are listed in the Streetscape Manual, the City may be required to solicit bids for multiple alternatives in order to meet procurement requirements.

In 2012, the City Council adopted the New Ave Streetscape Standards for the New Hampshire Avenue commercial corridor, and in 2015, the City Council accepted the Residential Streetscape Task Force final report, "Takoma Park's Residential Streetscapes: Safeguarding our Distinctive Visual Character." The Streetscape Manual was initiated by the City in 2015, incorporating the guidelines and recommendations from these earlier documents, and with thoughtful input from business associations and members of the City Council-appointed Residential Streetscapes Taskforce and Safe Roadways Committee. The Streetscape Manual was adopted by the Takoma Park City Council on July 20, 2016.

The following sections outline guiding principles that inform decisions as they relate to streetscapes in Takoma Park, an organization outline of the manual itself, directions on using and maintaining the Streetscape Manual for City staff, residents, and contractors, as well as a list of applicable policies, guidelines, and standards that direct the practice of planning and implementing streetscape improvements in Takoma Park.

Guiding Principles

Streetscape improvements along City and state rights-of-way in Takoma Park are implemented to support walking, cycling, and accessing transit while augmenting the aesthetics and environmental performance of City streets. These improvements support alternative modes of transportation, environmental sustainability, economic development, and social interaction, which contribute to a more livable Takoma Park. The Streetscape Manual reflects this human-scaled orientation with a focus on streetscape elements as they relate to pedestrians, bicyclists, and transit users. Takoma Park's streetscapes are maintained and improved with the following guiding principles in mind:

Planning and Design – Improving the City's streetscapes is an intentional act that necessitates a comprehensive and interdepartmental planning and design approach. Safety, ecology, culture, the local economy, and aesthetics are all key drivers of the planning and design process.

Durability and Sustainability – Elements installed in streetscapes are expected to last for decades and are subject to the City's procurement policies that prioritize sustainable materials and local sources.

Balancing Consistency with Local Identity – Streetscapes reflect both the character of Takoma Park, as well as the distinct identities of neighborhoods and commercial districts. Throughout the City, streetscape elements conform to one another or purposefully differentiate to support an area's established identity.

Community-Led Design – Changes to streetscapes in Takoma Park are either neighborhood-led initiatives (for new sidewalks and traffic calming) or the outcome of City projects and plans that involve community meetings and input.

Accessibility and Inclusivity – Takoma Park is a welcoming and diverse community for all ages and abilities.

Healthy Trees and Plantings – Trees and plantings on City streetscapes provide numerous social, ecological, and economic benefits, yet require space and maintenance to survive and flourish. Care is taken to ensure streetscapes are designed and improved to support species that thrive in the built environment.

Clear Expectations for All Stakeholders – Repairs and improvements to streetscapes are initiated by private contractors and public utilities in addition to City crews. Expectations for repair, replacement, and rehabilitation need to be clearly and consistently applied.

Adapting to Change – Capital projects in the City are subject to changing federal and state regulations pertaining to the environment, equal access, etc., as well as innovations in technology that advance Takoma Park's established goals and policies.

Organization

The Streetscape Manual is organized into five sections – City-wide elements found throughout Takoma Park, followed by four distinct geographical sub-areas; Flower Avenue, Historic District, the New Ave, and Residential Neighborhoods. Within each section, streetscape elements are organized by type (e.g. seating) and each element within that type is described with a map, followed by design specifications. Descriptions of the five sections reflect the style and color of streetscape elements unique to each:

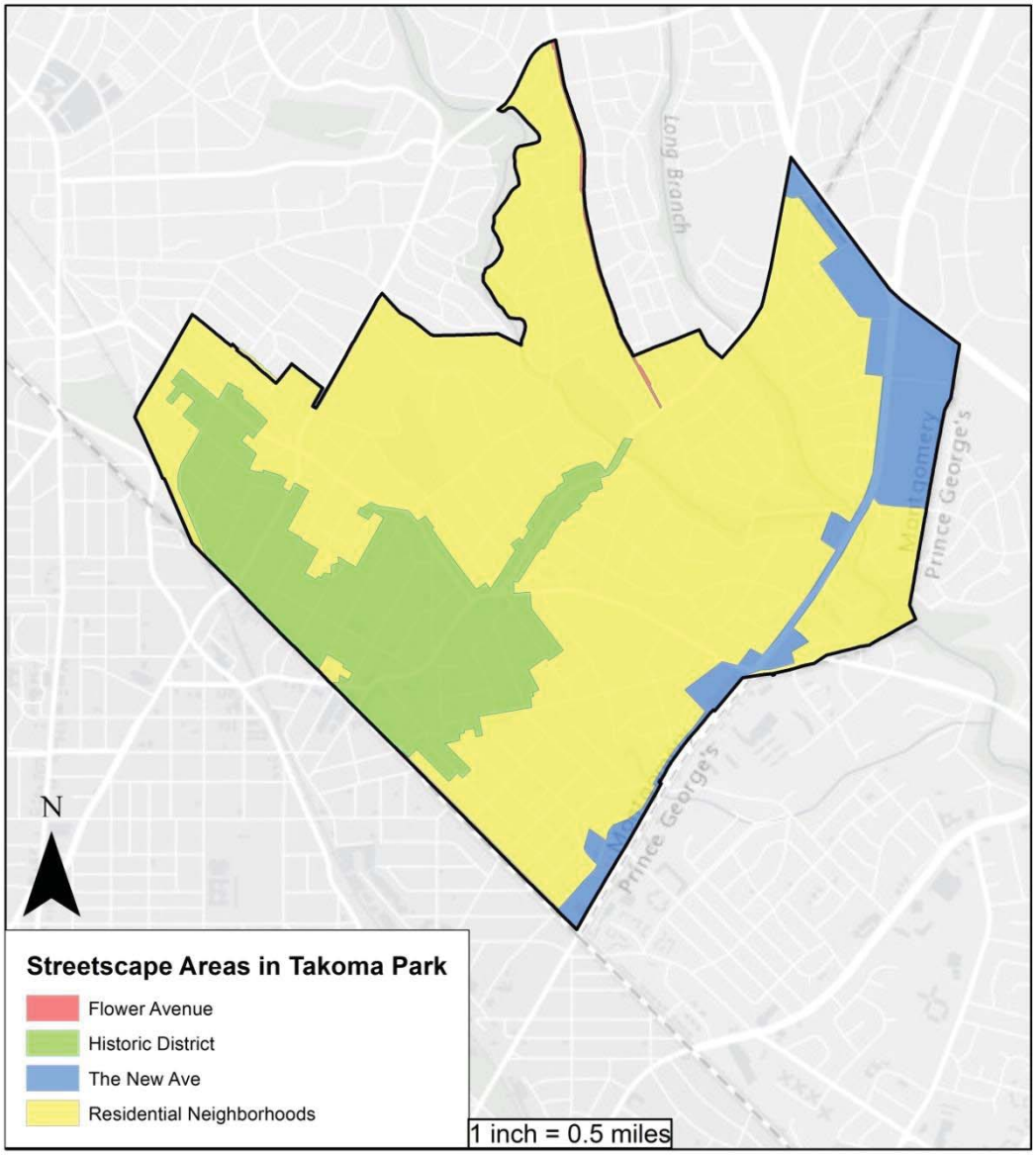
City-wide – These are standard elements installed citywide, regardless of planning district. For example the City's gateway and wayfinding signage developed in 2006 express the City's municipal identity and were approved by the Montgomery County Historic Preservation Commission.

Flower Avenue – Corresponds to the Flower Avenue Green Street project (2012-2016) and reflects design decisions made with public input for the project. The streetscape elements are primarily residential in character, supportive of the street's role as an important multi-modal corridor leading to Piney Branch Road and the Long Branch commercial district.

Historic District – Designated by Montgomery County, the Takoma Park Historic District covers the oldest developed portions of the City adjacent to the Takoma Metro Station, Montgomery College, and the Old Town and Takoma Junction commercial areas. Modifications to the residential and commercial streetscape in the Takoma Park Historic District should be minimal and seek approval from the Montgomery Historic Preservation Commission when necessary. Improvements on Carroll and Laurel Avenues in the early 2000s reinforced the aesthetic of streetscape elements in the Historic District, characterized by black metal finishes and classic designs.

The New Ave – The New Hampshire Avenue corridor from Eastern Avenue to University Boulevard, a.k.a. "the New Ave," comprises the City's largest commercial districts along high-traffic arterial roadways. The New Ave was the focus of a 2006 branding effort characterized by vibrant colors that reflect the cultural traditions of the communities that live and work along the corridor. The vibrant colors and playful design of seating and waste receptacles on New Hampshire Avenue are consistent with the New Ave brand. Improvements initiated in 2008 and recommendations in the 2012 New Ave Streetscape Standards provide the basis for the New Ave aesthetic.

Residential Neighborhoods – Residential streetscapes in Takoma Park that are outside of the areas defined as Flower Avenue, the New Ave, and the Historic District are predominantly composed of single- and multifamily housing with some institutional and retail land uses. As the City's residential neighborhoods tend to be greener and more architecturally varied, streetscape improvements should strive for neutrality and simplicity in color and design.


Long Branch
Prince George's
Prince George's
N
Streetscape Areas in Takoma Park
Flower Avenue
Historic District
The New Ave
Residential Neighborhoods
1 inch = 0.5 miles

Using and Maintaining the Streetscape Manual

The specific streetscape elements distinct to each of the four geographical sub-areas described earlier are expected to be installed as replacements or new fixtures. Takoma Park is a small city composed of neighborhoods and commercial districts with distinct identities. Consistency of application is a key component both for maintaining a sense of unity across the City, while respecting and enhancing local character. New and alternative products may be included in updates to the Streetscape Manual, but are expected to be incorporated through a specific capital project or planning process that involves public input.

The manual is to be used by all City staff, City contractors, and Council-appointed boards and committees engaged in installing, replacing, and maintaining streetscape elements. For example, when:

- City staff is reviewing a Site Plan application and requests that a developer install street lights along a public right-of-way.

- City staff is directing a utility contractor to repair/resurface a road or sidewalk that had a special sidewalk finishing detail, pavement markings for bicycle facilities, etc.

- City staff is reviewing a community grant application that involves streetscape elements like seating or signage in the public right-of-way.

- Council-appointed board/committee is recommending a project that involves streetscape elements (seating, lighting, signage, bicycle facilities, etc.) in the public right-of-way.

While streetscape elements are addressed discretely in the Streetscape Manual, they are often installed in along with new or existing complimentary elements. For example a bench is often next to trash and recycling receptacles. It is therefore important to review specifications all of elements in proximity to each other so that necessary offsets, ADA standards, and other requirements do not conflict.

The Streetscape Manual will be updated annually in a coordinated effort by the Housing and Community Development and Public Works departments, incorporating additional streetscape elements already in use or new elements as projects are completed. Input is always welcome from the public, including residents' groups, business associations, and Council-appointed boards, committees, and commissions. Some products in the public right-of-way are not catalogued in the Streetscape Manual. These products are to be phased out, as they are either no longer available from vendors or have been deemed inadequate for functional or aesthetic reasons. They are listed separately in an appendix. Additionally, there are some variations or colors of elements that have been discontinued, like the "Federal Yellow" ADA detectable warning mats. All discontinued elements will be replaced on an as-needed basis.

Applicable Policies, Guidelines, and Standards

Maintaining and improving streetscapes in Takoma Park results from planning processes, projects, and programs, and is expected to comply with applicable City, County, State, and Federal laws pertaining to safety, accessibility, equity, environmental protection, and design. The following ordinances, resolutions, statues, and guidelines may not be applicable to all projects that impact City streetscapes, and care should be used to determine which guidelines and standards advance the goals of the Takoma Park City Council and community.

City Code, Policies and Standards:

Takoma Park Municipal Code
codepublishing.com/MD/TakomaPark
Takoma Park Code, Chapter 2.16, § 2.16.110 outlines the purpose of the City Council-appointed Safe Roadways Committee, whose advisory role includes encouraging Takoma Park residents to use alternatives to driving, including walking, bicycling, and transit.

Takoma Park Code Chapter 7.08 Source Selection and Contract Formation outlines the City's procurement processes that are both subject to and exempt from competitive bidding, as well as a preference for recycled products and environmentally preferable and locally-sourced purchasing.

Takoma Park Administrative Regulations:

- 96-1: Traffic Calming Devices – Petition Process and Installations

Takoma Park Resolutions:
takomaparkmd.gov/government/city-council/resolutions

- 2015-58: Resolution Authorizing Execution of a Contract for Services/Bus Shelter Agreement with Signal Outdoor Advertising, LLC
- 2015-32: A Resolution Setting a Policy for New Sidewalk Design and Installation
- 2015-30: Accepting the Report of the Residential Streetscape Task Force
- 2012-56: Adopting the New Ave Streetscape Standards
- 2012-7: Endorsing the Takoma/Langley Sector Plan Urban Design Guidelines

New Ave Streetscape Standards (rev. 2014)
theNewAve.com/development/planning-vision
Adopted by the Takoma Park City Council, this document outlines street furniture styles, street tree species, stormwater infiltration strategies, crosswalk treatments, and pavement types to be used in the New Hampshire Avenue corridor between Eastern Avenue and University Boulevard. The standards are used to help guide private development and public infrastructure projects on New Hampshire Avenue to ensure a consistent look and feel on the corridor that meets the City's sustainability goals while reflecting the diversity of the community through design.

County, State, and Federal Guidelines & Standards:

Takoma/Langley Crossroads Sector Plan Design Guidelines (2013)
montgomeryplanning.org/community/takoma_langley_crossroads
Developed by the Montgomery County Planning Department, this document guides urban design in the New Hampshire Avenue corridor north of Sligo Creek Parkway.

Long Branch Sector Plan Design Guidelines (2013)
montgomeryplanning.org/community/longbranch
Developed by the Montgomery County Planning Department, this document guides design strategies for particular streetscape treatments in the Long Branch area such as lighting, crosswalks, and medians.

Montgomery County Department of Transportation Design Standards
montgomerycountymd.gov/dot-dte/common/standards.html
This document provides standards for road, crosswalk, and sidewalk design and maintenance.

WMATA Guidelines for Design and Placement of Transit Stops (2009)
wmata.com/pdfs/planning/Bus_Stop_Guidelines_Brochure.pdf
This document provides both WMATA and its participating municipalities with specific physical design criteria to be integrated with local comprehensive plan policies, land use ordinances, pedestrian plans, and street design guidelines. It presents guidelines for the construction of and improvements to bus stop placement and types, bus stop elements and passenger amenities, and bus stop spacing.

Maryland Manual on Uniform Traffic Control Devices (rev. 2011)
roads.maryland.gov/index.aspx?PageId=835
The MdMUTCD is the combined document of the national set of traffic control device standards and guidance promulgated by Federal Highway Administration (FHWA) rulemaking on December 16, 2009 and Maryland Supplement to the MUTCD.

Maryland State Highway Administration Bicycle Policy & Design Guidelines (rev. 2015)
roads.maryland.gov/ohd2/bike_policy_and_design_guide.pdf
This policy provides guidance for designing and constructing bicycle facilities on Maryland state highways. A waiver is required by designers if the guidelines are not met.

Americans with Disabilities Act Standards for Accessible Design
http://www.ada.gov/2010ADAstandards_index.htm
The Americans with Disabilities Act of 1990 (ADA) prohibits discrimination and ensures equal opportunity for persons with disabilities in employment, State and local government services, public accommodations, commercial facilities, and transportation. In particular, 49 CFR, Part 37 outlines specific construction and adaptation requirements for transportation facilities, including bus stops, sidewalks, and curb cuts.

NACTO Urban Bikeway Design Guide (rev. 2014)
nacto.org/publication/urban-bikeway-design-guide
The National Association of City Transportation Officials (NACTO)'s Urban Bikeway Design Guide outlines standards for bike lanes, cycle tracks, intersections, signals, signing and marking, and bicycle boulevards to be used by planners across the US.

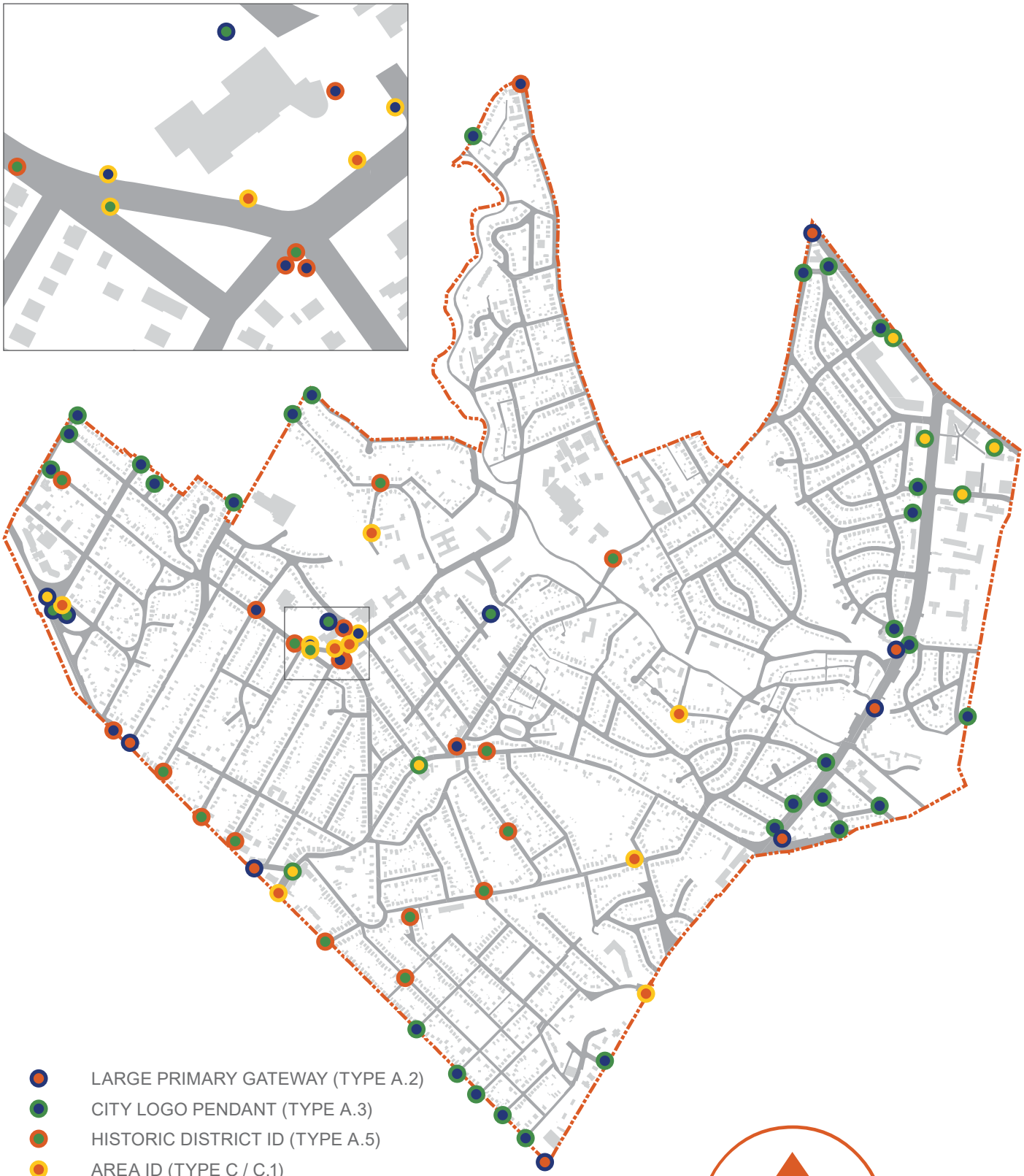
Citywide Streetscape Elements

These are standard elements installed citywide, regardless of planning district. For example the City's gateway and wayfinding signage developed in 2006 express the city's municipal identity and were approved by the Montgomery County Historic Preservation Commission.

SIGNS

PRODUCT	**CITY-WIDE WAYFINDING SIGNS**
VENDOR	**SIGNART**
INVENTORY	78 TOTAL SIGNS: - 7 LARGE PRIMARY GATEWAY SIGNS - 29 CITY LOGO PENDANT SIGNS - 13 HISTORIC DISTRICT ID SIGNS - 8 AREA ID SIGNS - 2 PARKING ID SIGNS - 6 PEDESTRIAN KIOSK SIGNS - 1 HISTORIC MARKER SIGNS - 7 GARDEN MARKER SIGNS - 1 COMMUNITY CENTER DIRECTIONAL SIGNS
DIMENSIONS	REFER TO ATTACHED SIGN TYPE SPECIFICATIONS.
MATERIALS	PANELS ARE .050 GAUGE ALUMINUM. SIGN TUBING IS .050 GAUGE ALUMINUM WITH WELDED FRAME.
FINISHES & COLORS	SIGNS ARE 3/16” BLACK PAINTED ALUMINUM PANELS. DIGITALLY-PRINTED SIGNS ARE 3M SCOTCHLITE REFLECTIVE SHEETING. KIOSK DIGITALLY-PRINTED MAPS ARE 3M SCOTCHLITE SHEETING WITH GRAFFITI-RESISTANT LAMINATE. KIOSK FRAMES ARE PAINTED IN AKZO-NOBEL #508-114. REFER TO ATTACHED SIGN TYPE SPECIFICATIONS.
PURCHASE & INSTALLATION	PHASED IMPLEMENTATION STARTING IN 2009. SIGNS TO BE REPLACED OR EXPANDED ON AN AS-NEEDED BASIS.
PHOTOS	 HISTORIC DISTRICT ID SIGN (TYPE A.5).

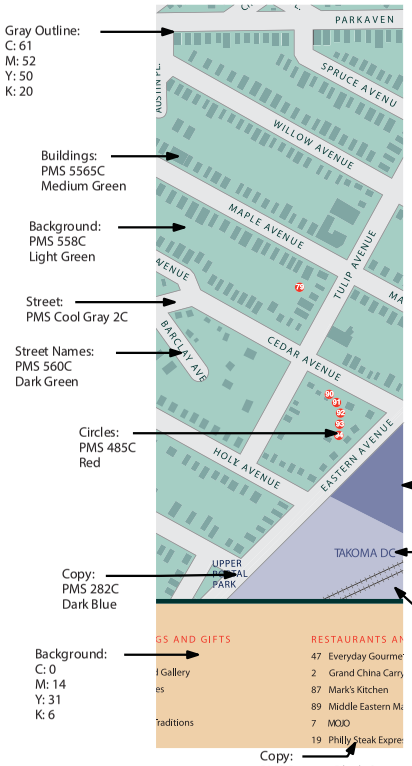
SIGNS - CITY-WIDE WAYFINDING SIGNS



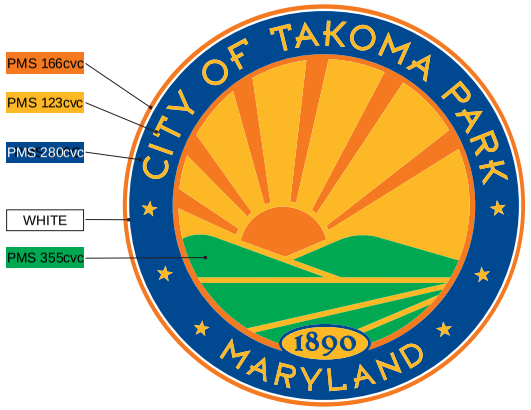
- LARGE PRIMARY GATEWAY (TYPE A.2)
- CITY LOGO PENDANT (TYPE A.3)
- HISTORIC DISTRICT ID (TYPE A.5)
- AREA ID (TYPE C / C.1)
- PARKING ID (TYPE C.3)
- PEDESTRIAN KIOSK (TYPE D.1 / D.2)
- HISTORIC MARKER PANEL (TYPE E)
- INTERPRETIVE PANEL (TYPE F)
- GARDEN MARKER (TYPE G)
- COMMUNITY CENTER DIRECTIONAL (TYPE S.1)
- CITY BOUNDARY

0 0.25 0.50 1 MILES

Directory & Map



Logo



Background

V1	3M REFLECTIVE WHITE #680-10
V2	3M LIGHT BEIGE #3630-149
P1	AKZO-NOBEL #454-E2
P2	AKZO-NOBEL #458-G3
P3	AKZO-NOBEL #508-H4

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP

REVISIONS

NO	BY	DATE	
1	AS	7/8/09	
2			
3			
4			
5			
6			
7			

DESIGNED BY
HC
ISSUE DATE
05/20/09
FILE NAME
CityOfTakomaPk/23657
PAGE
1 of 23

APPROVED FOR PRODUCTION
Date
As Drawn As Noted
Client
Sales Rep
Project Mgr

COLOR KEY

HGEPIXymbols Regular
(standar d spacing)

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

Broadband ICG
(standar d spacing)

ABCDE F GHIJKLMNOPQRST UVWXYZ
a bcdefghijklmnopqrstu vwxyz
012345678 9

Univers 57 Condensed
(standar d spacing)

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

Univers 67 Bold Condensed
(standar d spacing)

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
0123456789

Measure by this Dimension

Me

SignArt
6225OldConcordRoad
Charlotte, NC. 28213
7045979801
7045979808fax
8009293521

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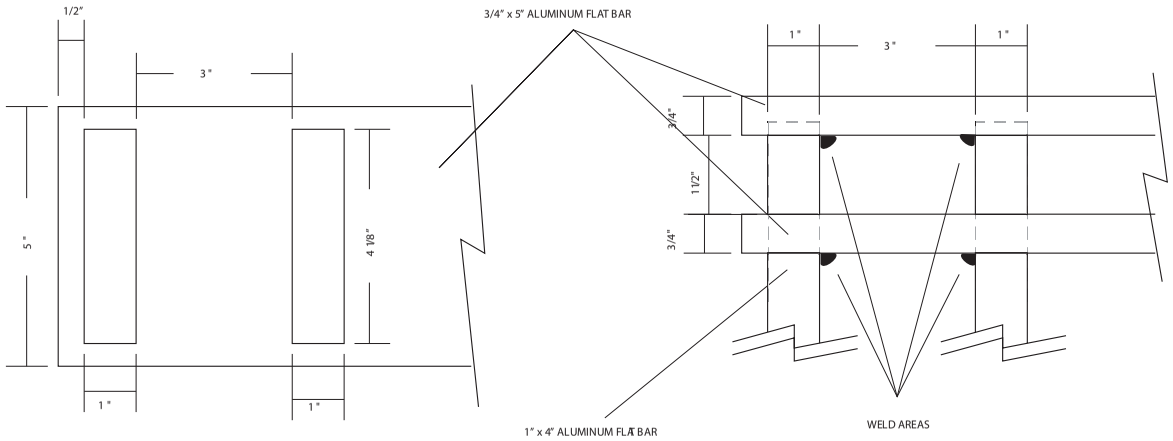
Sales Rep_____
Project Mgr_____

DETAIL - A

HORIZONTAL BARS (TOP VIEW)
- TOP BAR HAS POCKETS RTD 1/4" DEEP TO RECEIVE VERT BARS.
- ALL OTHER BARS HAVE SLOTS RTD THROUGH.

DETAIL - B

HORIZONTAL BARS (FRONT)
- WELDS ON TOP OR BOTTOM ONLY BASED ON LEAST VISIBLE LOCATION ON INSTALLED SIGNS. NONE ON FRONT OR BACK.



Face Elevation
Scale: 1" = 2"

DETAILS A & B

SignArt
6225 Old Concord Road
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HC

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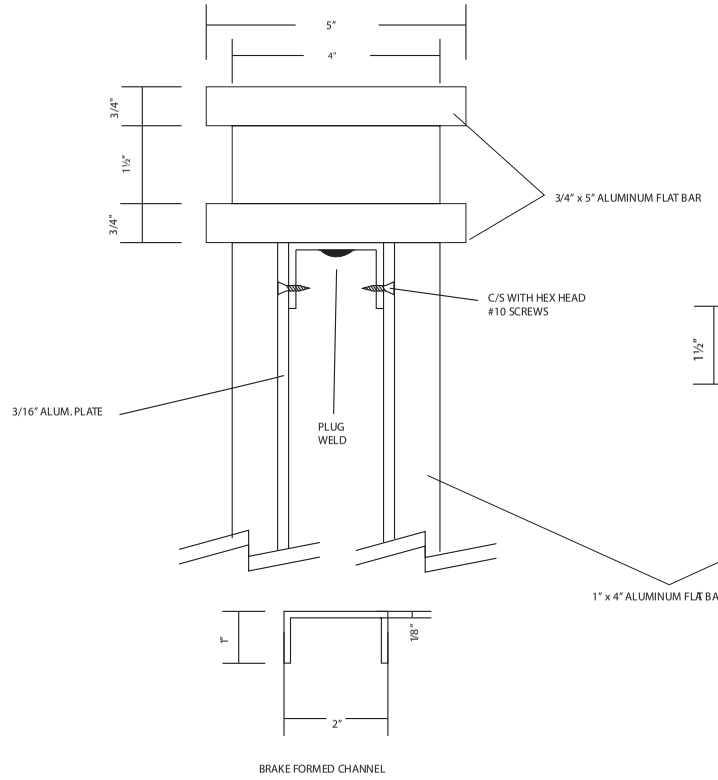
Project Mgr_____

DETAIL C

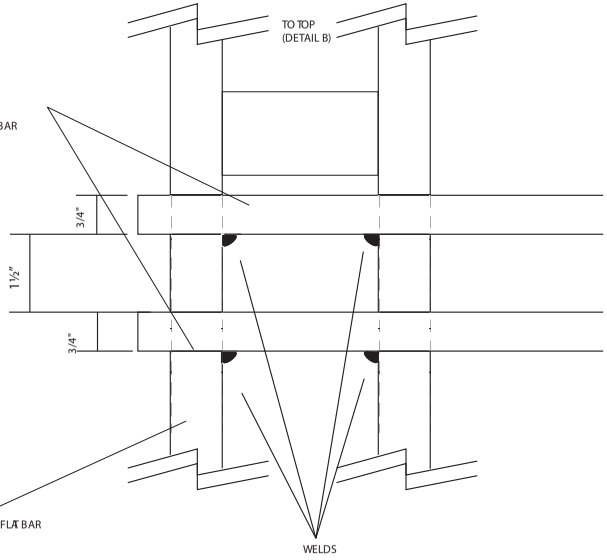
PANEL / CHANNEL ATTACHMENT



BRAKE FORMED CHANNEL

DETAIL D - (VIEW FROM FRONT)

- WELDS ON TOP OR BOTTOM ONLY BASED ON LEAST VISIBLE LOCATION ON INSTALLED SIGN. NONE ON FRONT OR BACK.



Face Elevation

Scale: 1" = 2"

DETAILS C & D

SignArt

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Charlotte, NC. 28213
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05/20/09

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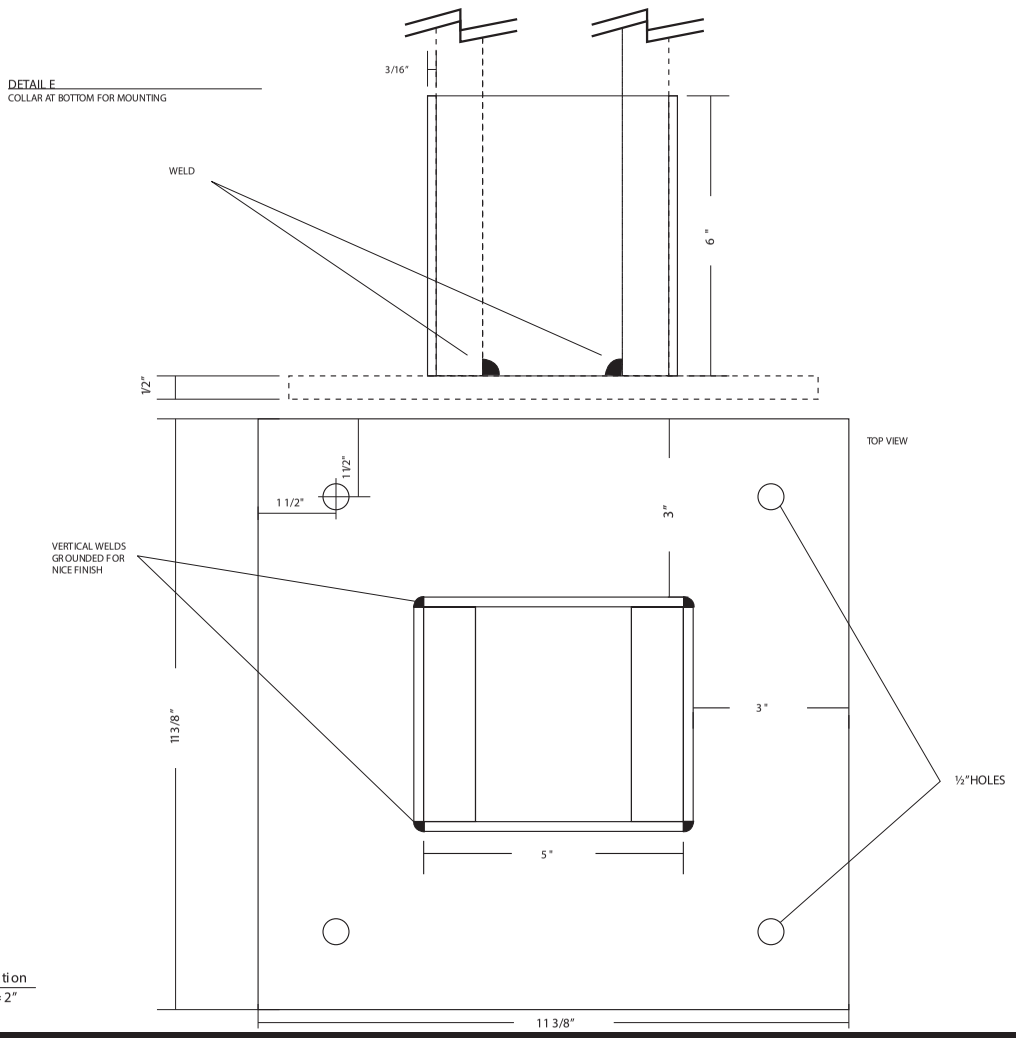
Sales Rep _____

Project Mgr _____



DETAIL E

SignArt
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Charlotte, NC 28213
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7045979808 fax
8009293521

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CityOf TakomaPk/23657

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Client _____
Sales Rep _____
Project Mgr _____

Qty: 1

COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

A.2

Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE A.2 D/F LARGE PRIMARY GATEWAY

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
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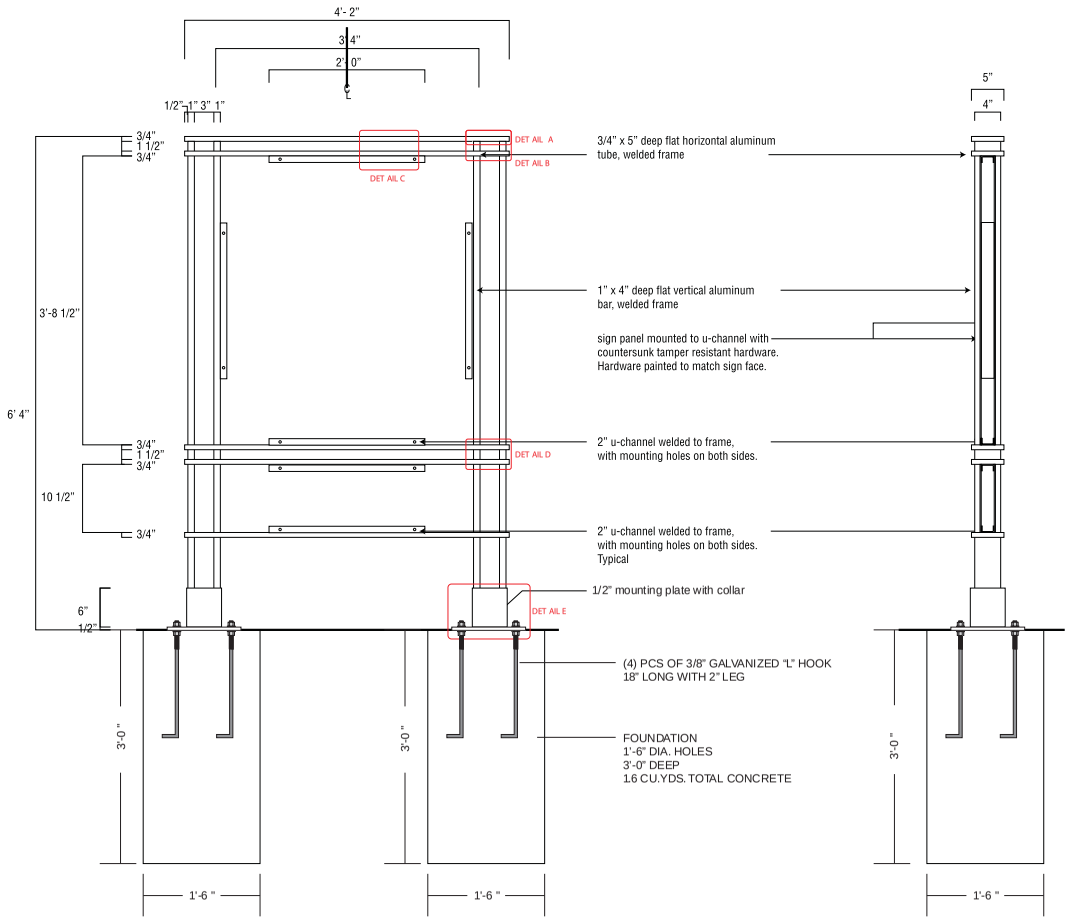

A.2

Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE A.2 SPECIFICATIONS

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DESIGNED BY
HC

ISSUE DATE
05/20/09

FILE NAME
CityOf TakomaPk/23657

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APPROVED FOR PRODUCTION
Date _____
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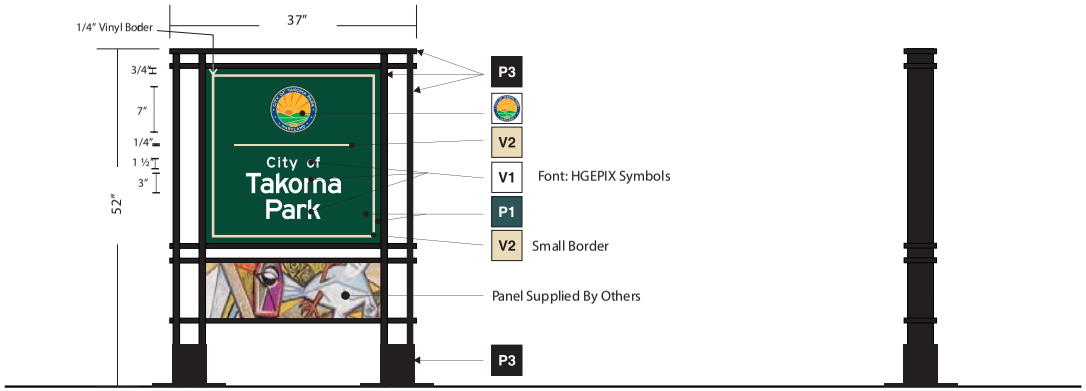
Sales Rep _____
Project Mgr _____



Qty: 1

COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE C- D/F AREA ID

SignArt
6225 Old Concord Road
Charbtte, NC 28213
7045979801
7045979808fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP

REVISIONS

NO	BY	DATE
1	AS	7/8/09
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DESIGNED BY
HC
ISSUE DATE
05/20/09
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CityOf TakomaPk/23657
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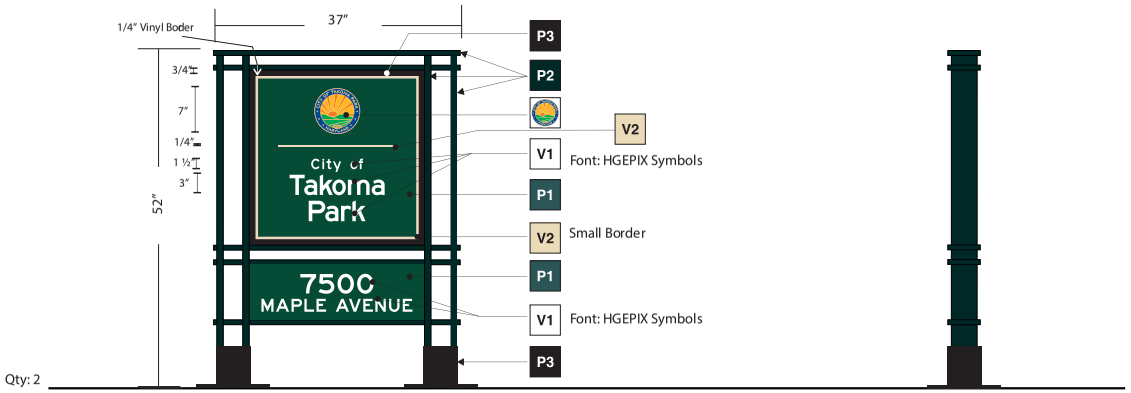
APPROVED FOR PRODUCTION
Date_____
As Drawn_____As Noted_____
Client_____
Sales Rep_____
Project Mgr_____



COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

C.1 Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE C.1 - D/F AREA ID

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657

WORK ORDER NUMBER
64133

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

REVISIONS

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DESIGNED BY
HC

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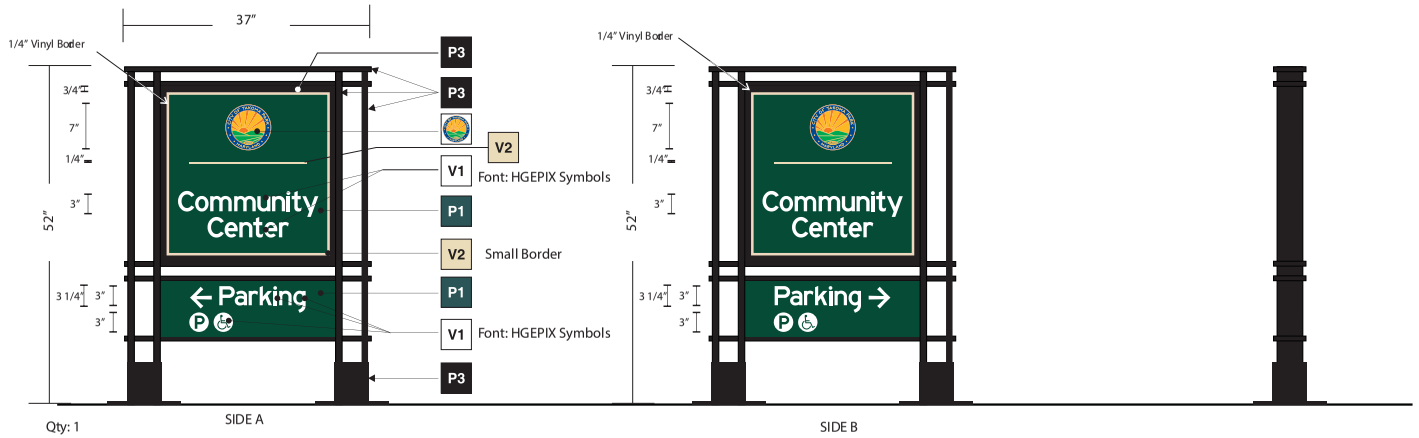
Sales Rep_____
Project Mgr_____



COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

C.3 Face Elevation
Scale: 3/4"= 1-0"

SIGN TYPE C.3 - D/F PARKING ID

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657

WORK ORDER NUMBER
64133

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

REVISIONS

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HC

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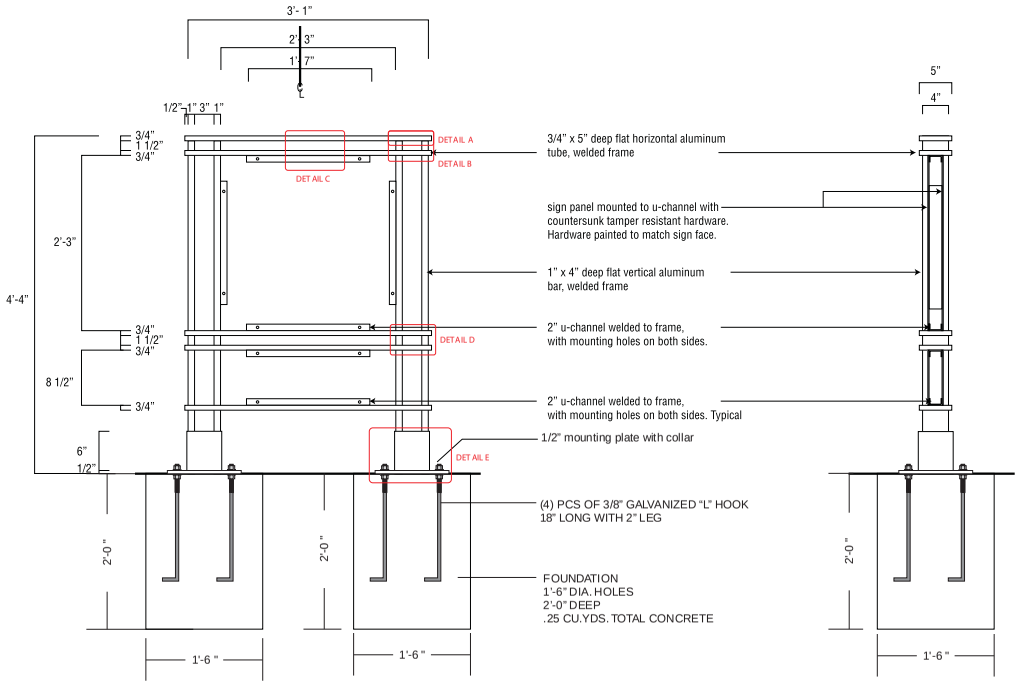
Project Mgr_____



C C.1 C.3 Face Elevation
Scale: 3/4"= 1-0"

SIGN TYPES C, C.1 & C.3 - SPECIFICATIONS

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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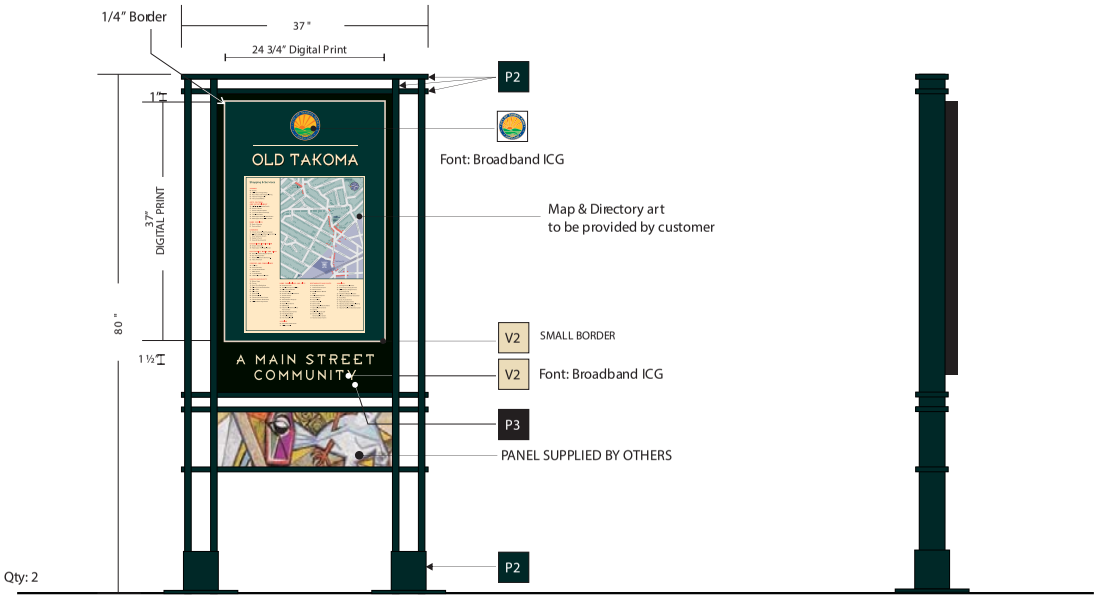
Sales Rep_____
Project Mgr_____



COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

D.1 Face Elevation
Scale: 3/4"= 1-0"

SIGN TYPE D.1 - S/F PEDESTRIAN KIOSK

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

NO	BY	DATE
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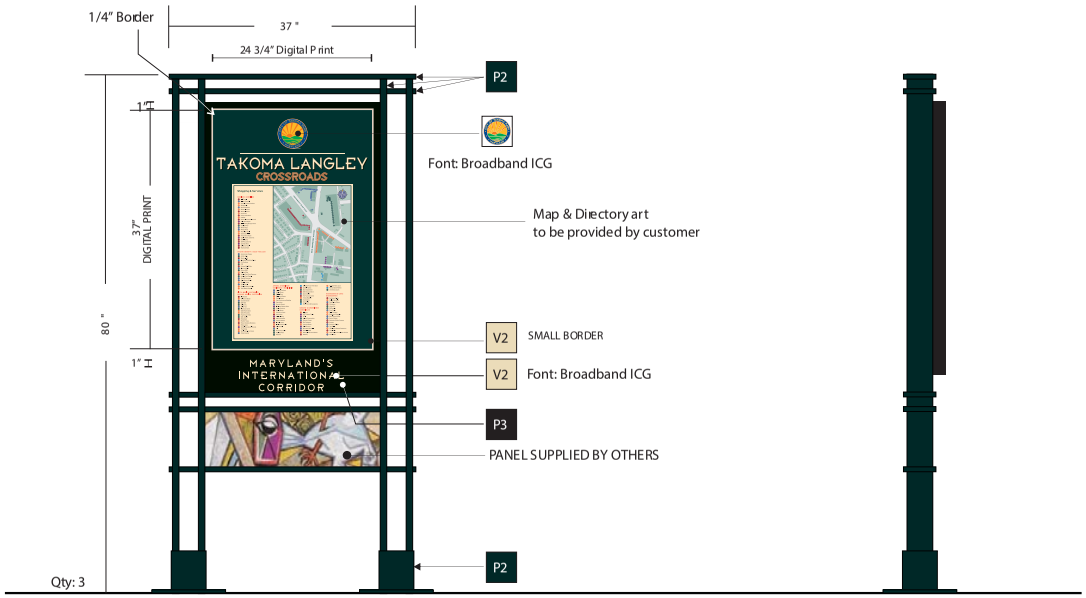
Client_____
Sales Rep_____
Project Mgr_____



COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

D.2 Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE D.2 - S/F PEDESTRIAN KIOSK

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

NO	BY	DATE	
1	AS	7/8/09	
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CityOf TakomaPk/23657
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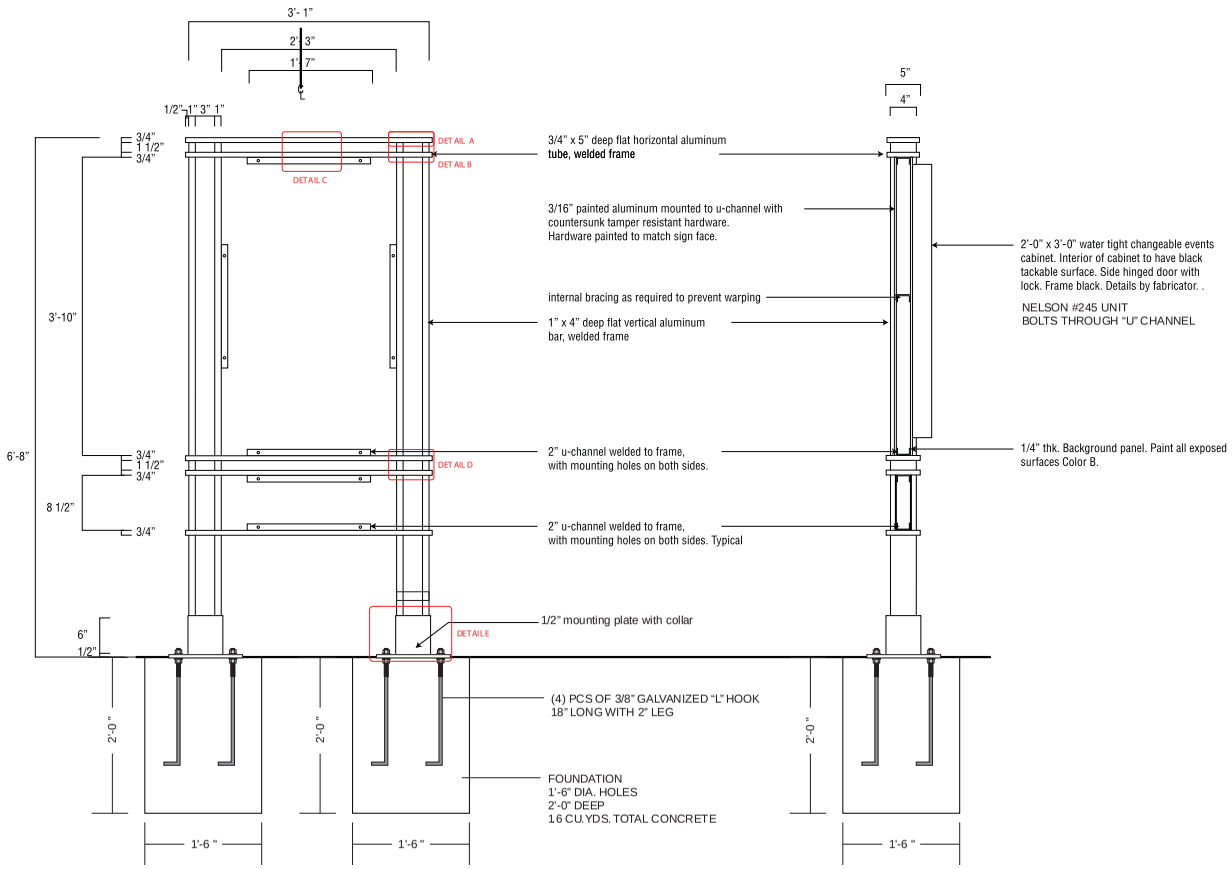
APPROVED FOR PRODUCTION
Date
As Drawn As Noted
Client
Sales Rep
Project Mgr



D.1 D.2 Face Elevation
Scale: 3/4"= 1'0"

SIGN TYPES D.1 & D.2 SPECIFICATIONS

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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APPROVED FOR PRODUCTION
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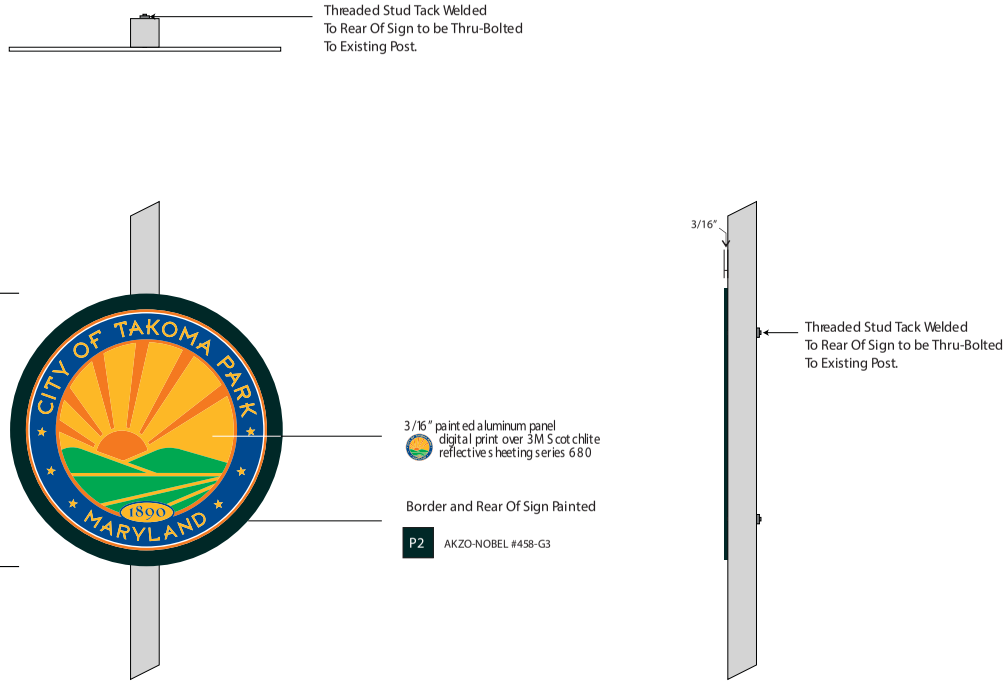
Project Mgr _____



A.3 Face Elevation
Scale: 1 1/2"= 1'-0"

SIGN TYPE A.3 TERTIARY GATEWAY- POLE MOUNTED

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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1	AS	7/8/09	
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HC
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APPROVED FOR PRODUCTION
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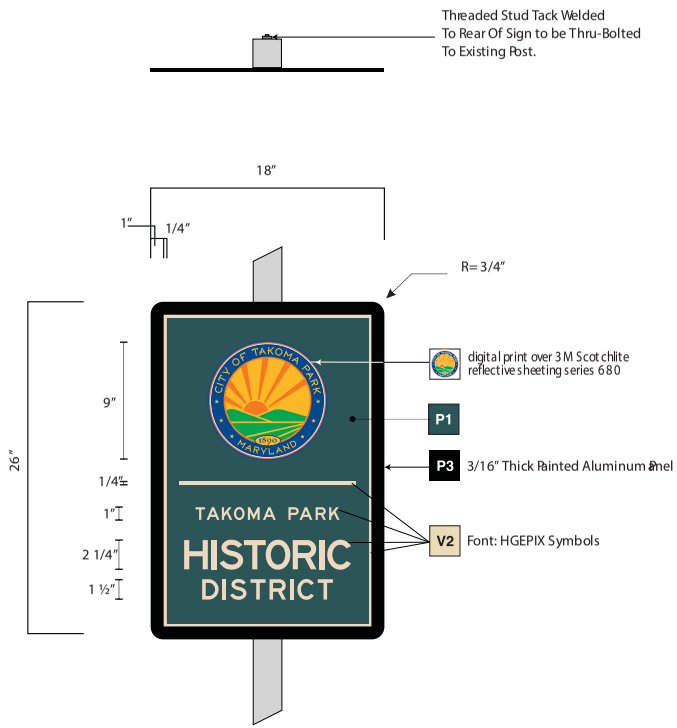
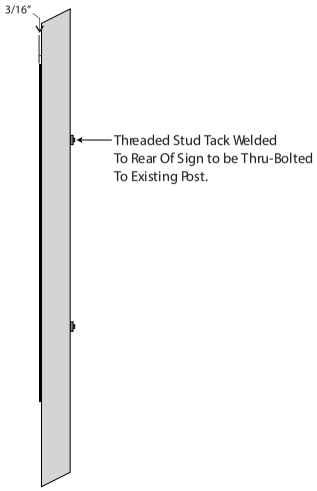
Sales Rep_____
Project Mgr_____





COLOR KEY

P1	AKZO-NOBEL #454-E2
P2	AKZO-NOBEL #458-G3
P3	AKZO-NOBEL #508-H4
V1	3M REFLECTIVE WHITE #680-10
V2	3M LIGHT BEIGE #3630-149
	Digital Print Over 3M Scotchlite Reflective Sheeting Series 690

A.5 Face Elevation
Scale: 1 1/2"= 1'-0"

SIGN TYPE A.5 TERTIARY GATEWAY- POLE MOUNTED

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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DESIGNED BY
HC
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05/20/09
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CityOf TakomaPk/23657
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APPROVED FOR PRODUCTION
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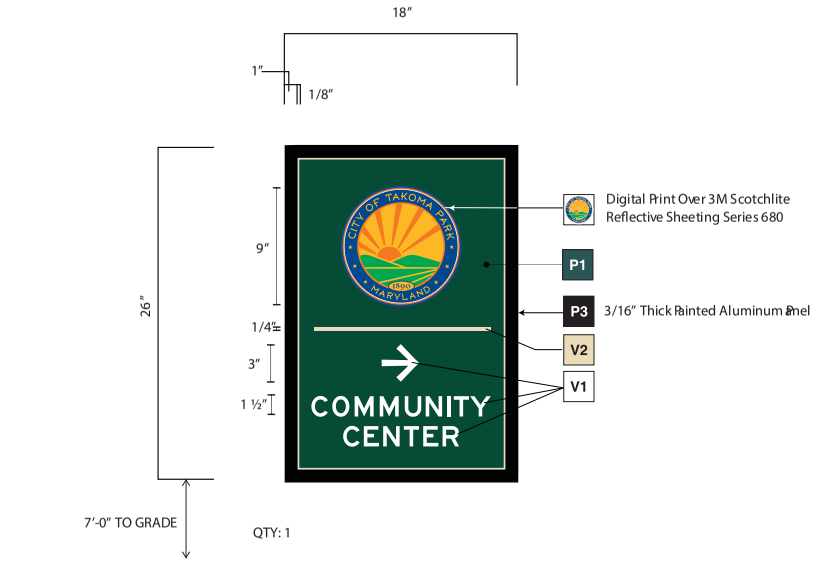
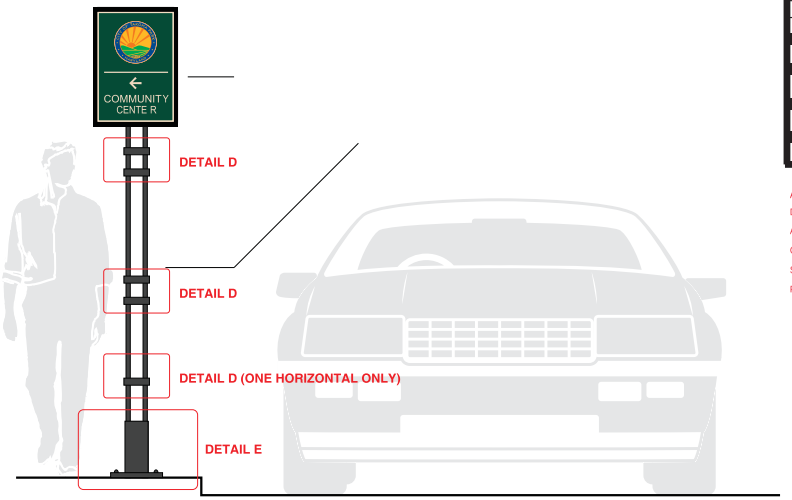
Client_____
Sales Rep_____
Project Mgr_____





COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 690

S.1 Face Elevation
Scale: 1 1/2"= 1'-0"

SIGN TYPE S.1 COMMUNITY CENTER DIRECTIONAL

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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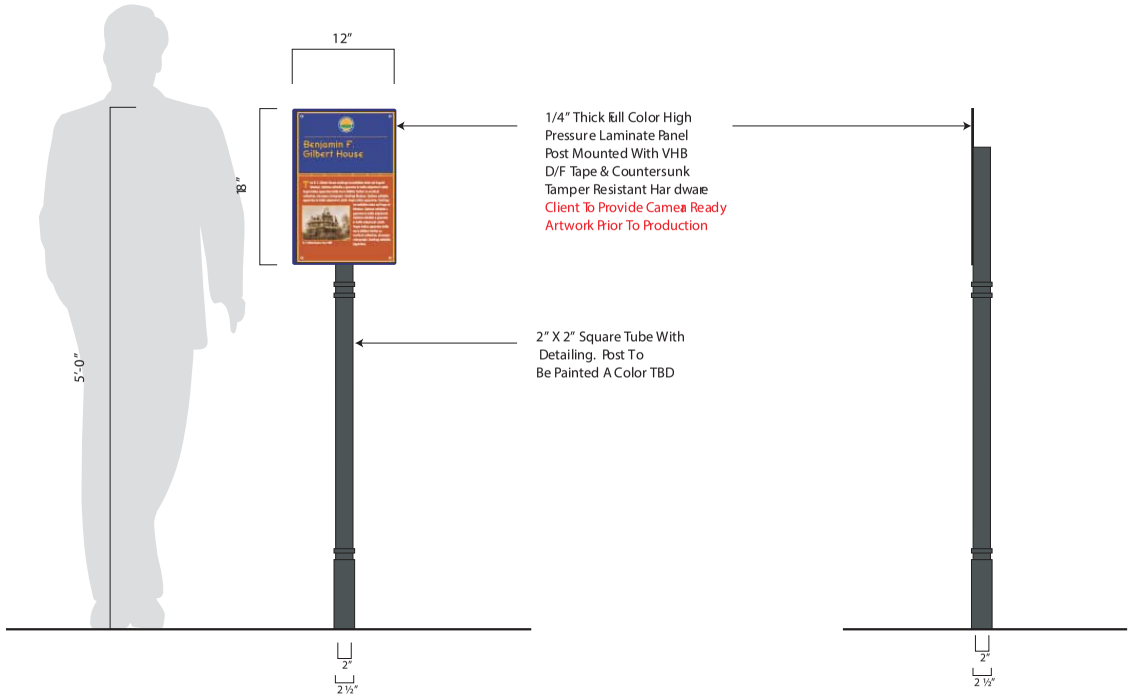
Sales Rep_____
Project Mgr_____



E Face Elevation
Scale: 1"= 1'-0"

SIGN TYPE E HISTORIC MARKER POST MOUNTED

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657

WORK ORDER NUMBER
64133

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

REVISIONS

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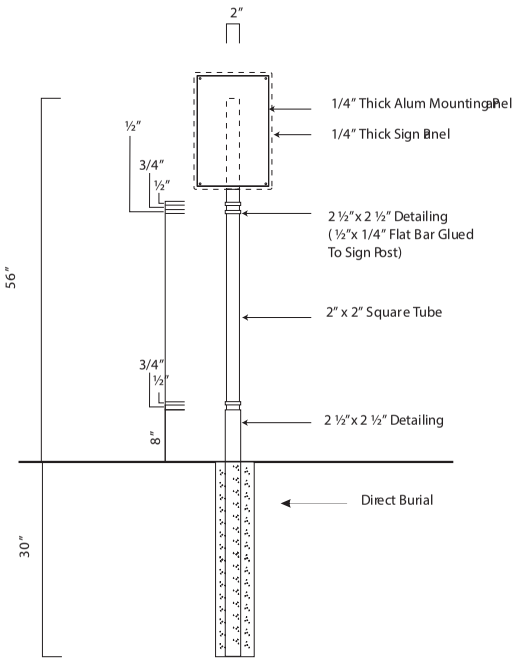
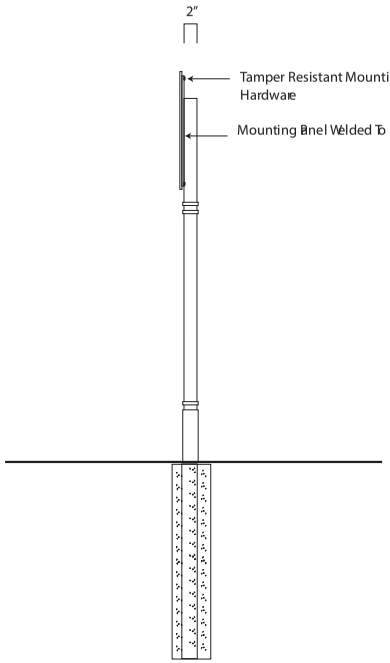
Project Mgr_____

Plan View
Scale: 1"= 1'-0"





E Face Elevation
Scale: 1"= 1'-0"

SIGN TYPE E HISTORIC MARKER SPECIFICATIONS

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657
WORK ORDER NUMBER
64133
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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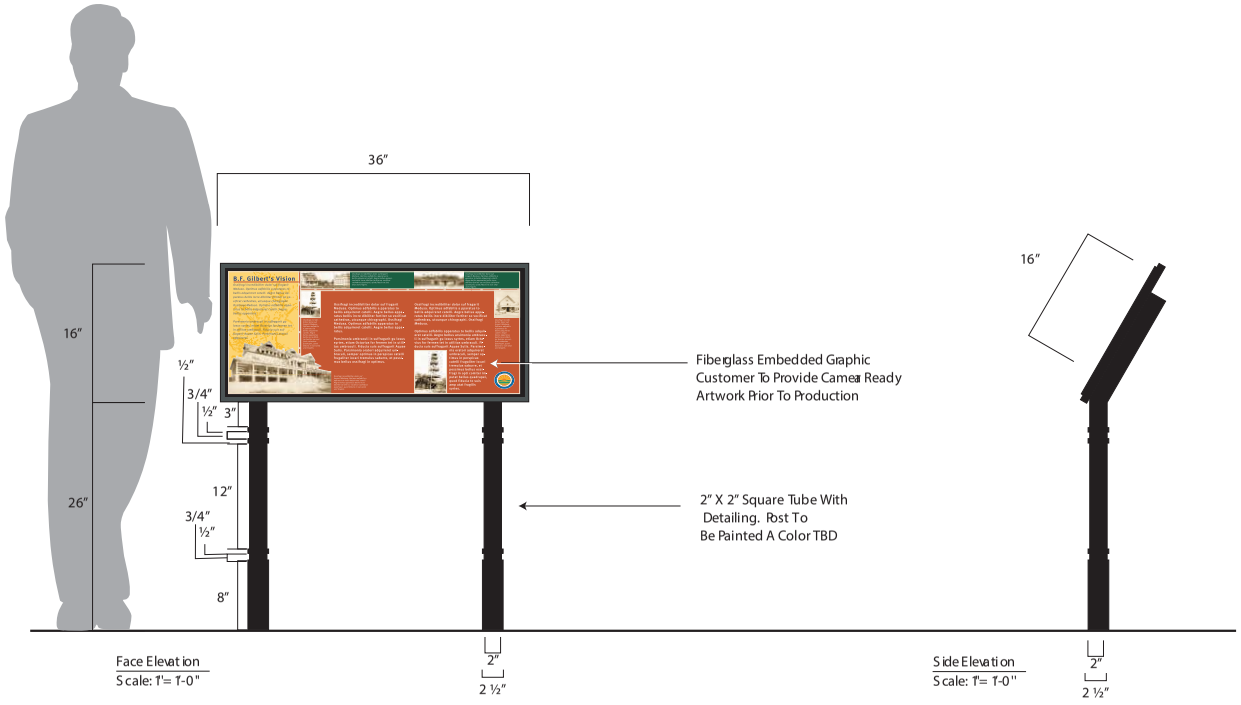
Project Mgr_____



F

SIGN TYPE F INTERPRETIVE PANEL

SignArt
6225 Old Concord Road
Charlotte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657

WORK ORDER NUMBER
64133

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

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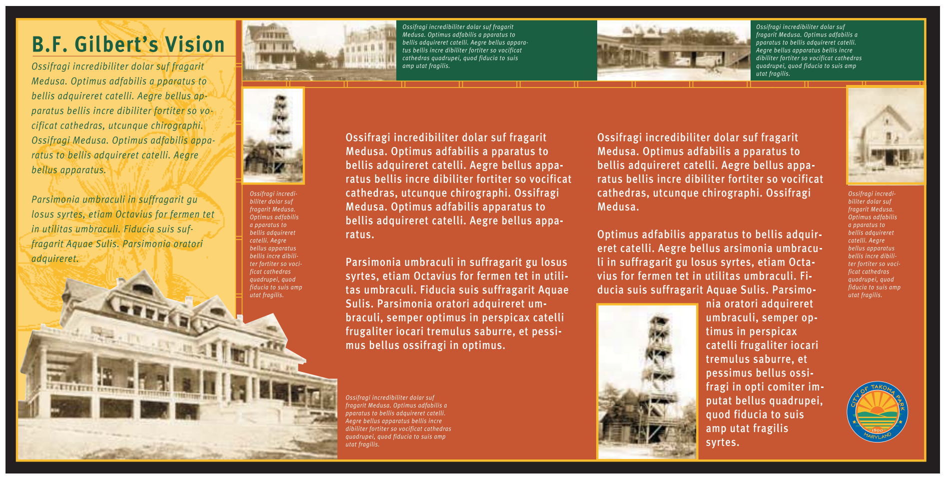
36"

16"



Face Elevation
Scale: 3" = 1'-0"

Fiberglass Embedded Graphic
Customer To Provide Camera Ready
Artwork Prior To Production

F

SIGN TYPE F INTERPRETIVE PANEL

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
7045979801
7045979808 fax
8009293521

BID NUMBER	23657
WORK ORDER NUMBER	64133
CLIENT	City Of Takoma Pk
LOCATION	Takoma Pk Maryland
SALESPERSON	FP

REVISIONS

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APPROVED FOR PRODUCTION
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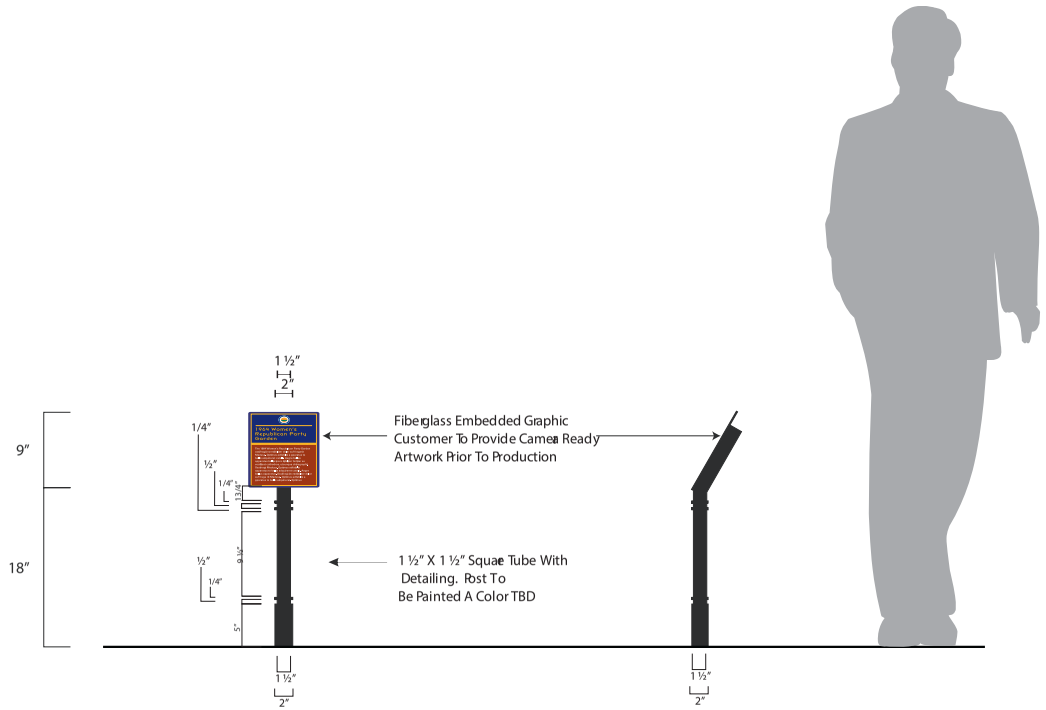
Sales Rep______
Project Mgr______



Face Elevation
Scale: 1"= 1'-0"

SIGN TYPE G GARDEN MARKER

SignArt
6225 Old Concod Road
Charbtte, NC 28213
7045979801
7045979808 fax
8009293521

BID NUMBER
23657

WORK ORDER NUMBER
64133

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

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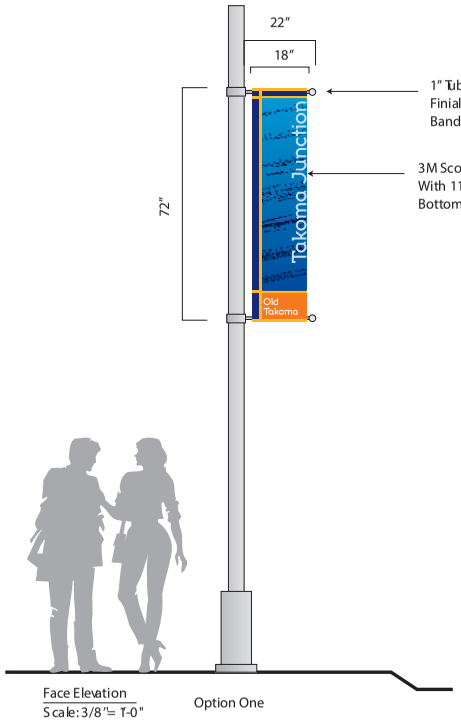
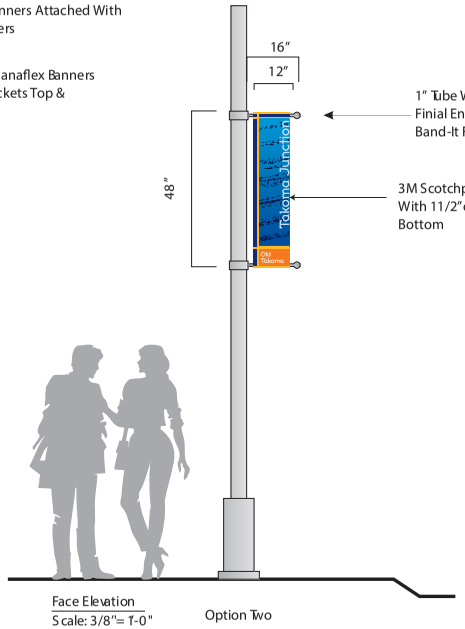
Sales Rep_____
Project Mgr_____



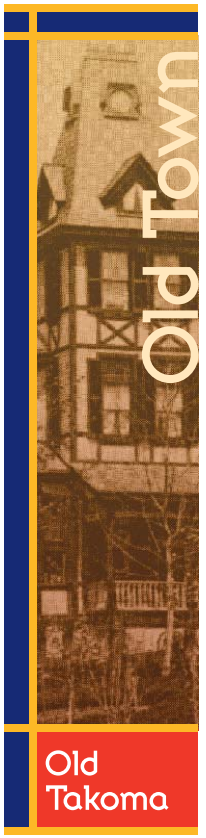
Face Elevation
Scale: 3/8″= 1'-0"

Option One



Face Elevation
Scale: 3/8″= 1'-0"

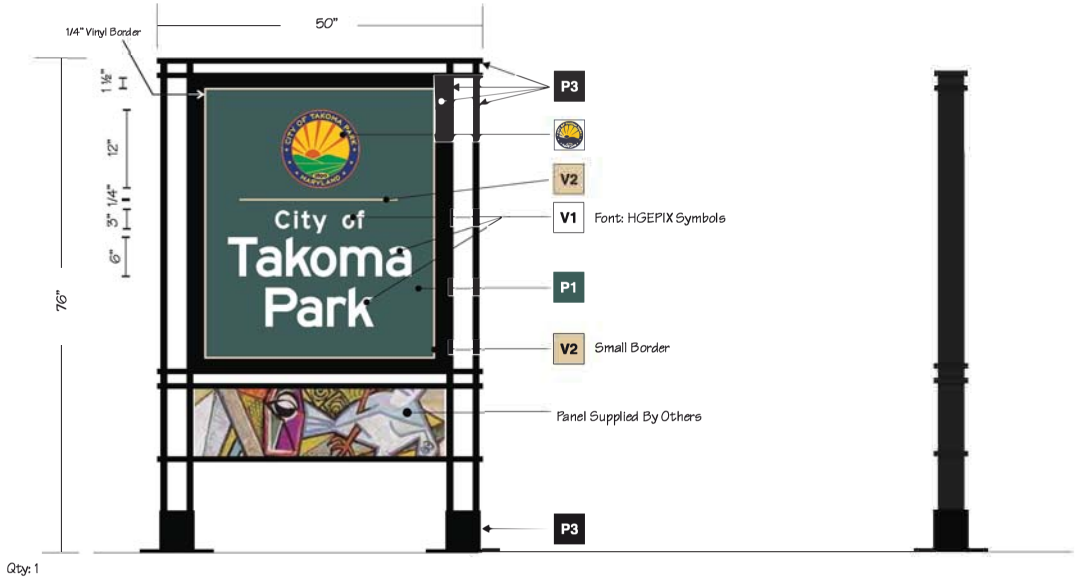
Option Two



Banners Typical

Customer To Provide Camera Ready Artwork Prior To Production

SIGN TYPE H - BANNERS



COLOR KEY

P1	AKZO-NOBEL #454-E2	V1	3M REFLECTIVE WHITE #680-10
P2	AKZO-NOBEL #458-G3	V2	3M LIGHT BEIGE #3630-149
P3	AKZO-NOBEL #508-H4		Digital Print Over 3M Scotchlite Reflective Sheeting Series 680

One (1) D/F Primary ID Sign

Face Elevation
Scale: 3/4" = 1'-0"

SIGN TYPE A D/F LARGE PRIMARY GATEWAY

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER: 29267
WORK ORDER NUMBER: 69021
CLIENT: City Of Takoma Pk
LOCATION: Takoma Pk Maryland
SALESPERSON: FP

REVISIONS

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DESIGNED BY: HC
ISSUE DATE: 05/18/12
FILE NAME: CityOf TakomaPk/29267
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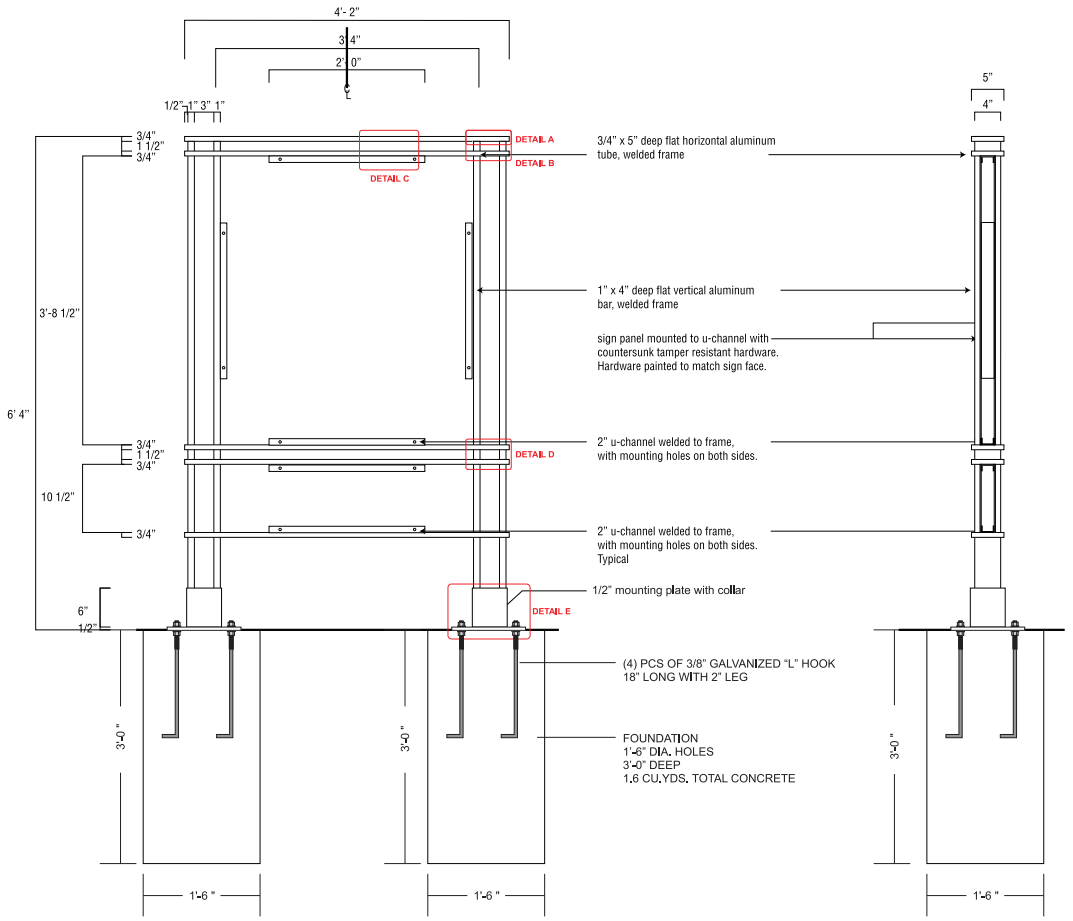
Client_____
Sales Rep_____
Project Mgr_____



A Face Elevation
Scale: 3/4" = 1'-0"

SIGN TYPE A SPECIFICATIONS

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267

WORK ORDER NUMBER
69021

CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
FP

REVISIONS

NO.	BY	DATE	
1			
2			
3			
4			
5			
6			
7			

DESIGNED BY
HC

ISSUE DATE
05/18/12

FILE NAME
CityOf TakomaPk/29267

PAGE
2 of 8

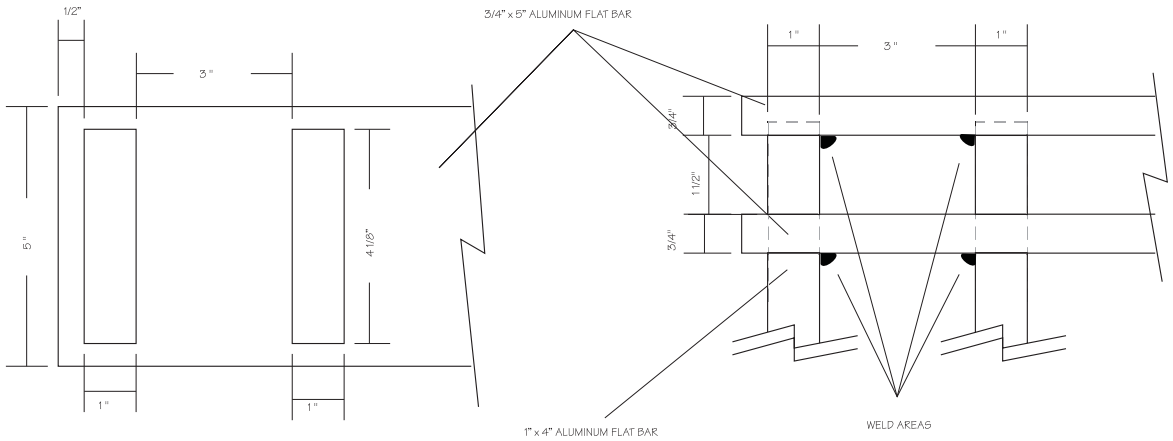
APPROVED FOR PRODUCTION
Date_____
As Drawn_____ As Noted_____
Client_____
Sales Rep_____
Project Mgr_____

DETAIL - A

HORIZONTAL BARS (TOP VIEW)
- TOP BAR HAS POCKETS RTD 1/4" DEEP TO RECEIVE VERT BARS.
- ALL OTHER BARS HAVE SLOTS RTD THROUGH.

DETAIL - B

HORIZONTAL BARS (FRONT)
- WELDS ON TOP OR BOTTOM ONLY BASED ON LEAST VISIBLE LOCATION ON INSTALLED SIGNS. NONE ON FRONT OR BACK.



Face Elevation
Scale: 1" = 2"

DETAILS A & B

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267

WORK ORDER NUMBER
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CLIENT
City Of Takoma Pk

LOCATION
Takoma Pk
Maryland

SALESPERSON
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DESIGNED BY
HC

ISSUE DATE
05/18/12

FILE NAME
CityOf TakomaPk/29267

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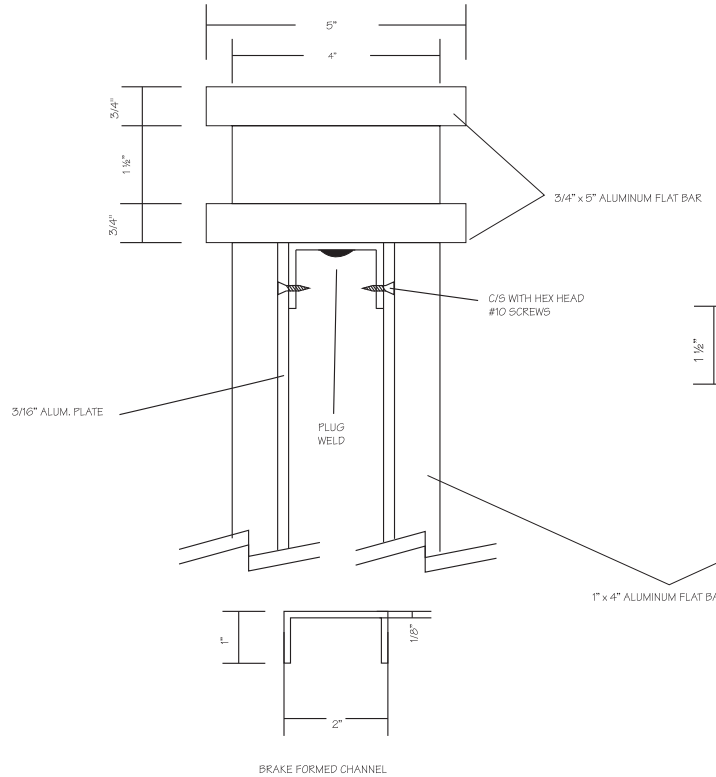
APPROVED FOR PRODUCTION
Date_____
As Drawn_____ As Noted_____
Client_____
Sales Rep_____
Project Mgr_____

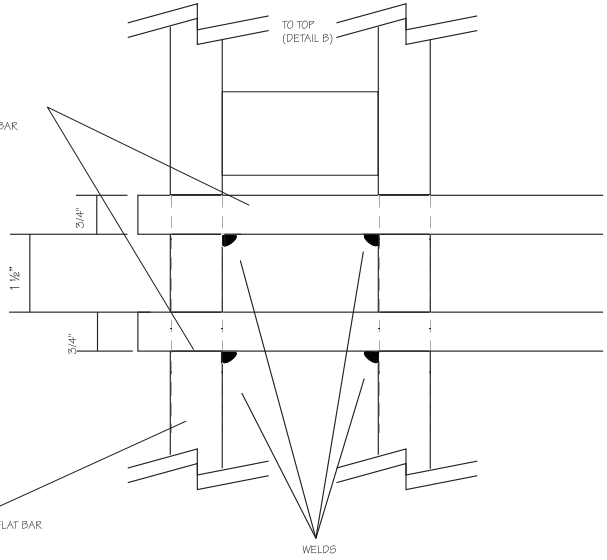
DETAIL C

PANEL / CHANNEL ATTACHMENT



DETAIL D - (VIEW FROM FRONT)

- WELDS ON TOP OR BOTTOM ONLY BASED ON LEAST VISIBLE LOCATION ON INSTALLED SIGN. NONE ON FRONT OR BACK.



Face Elevation
Scale: 1" = 2"

DETAILS C & D

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267

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69021

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ISSUE DATE
05/18/12

FILE NAME
CityOf TakomaPk/29267

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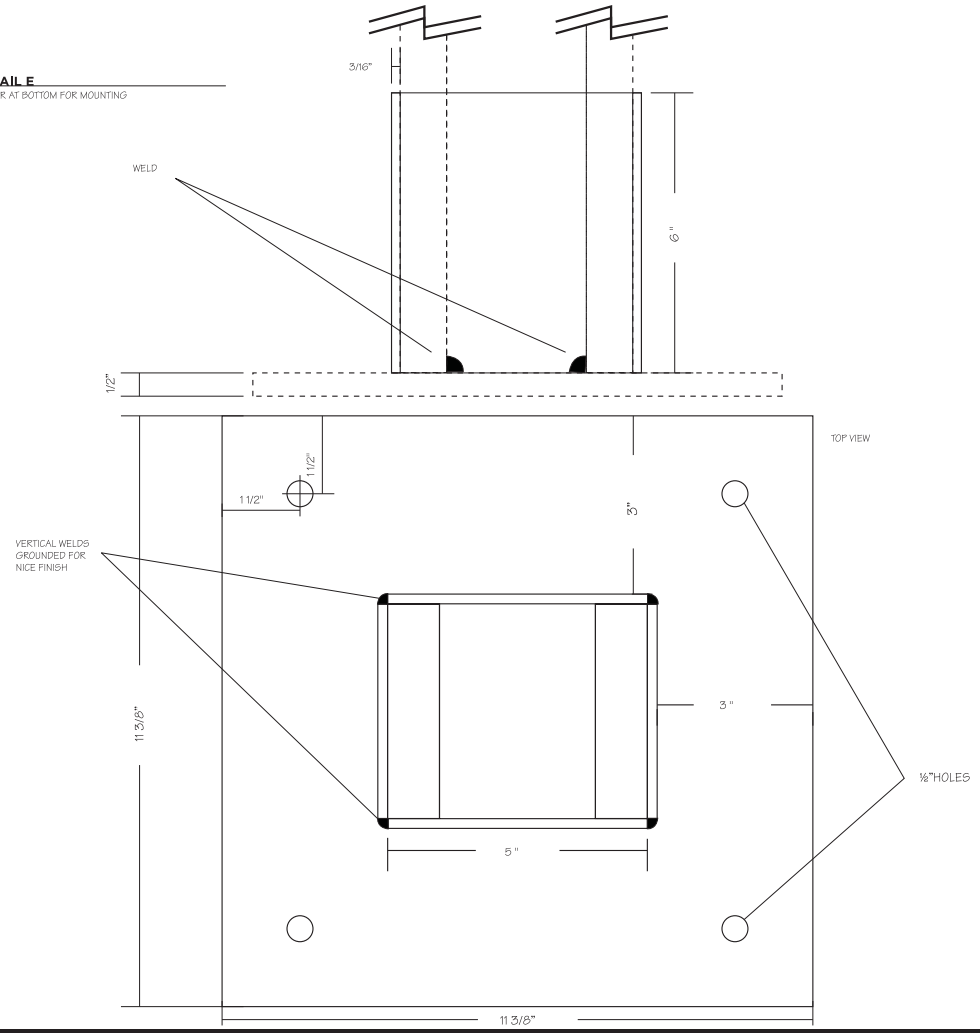
APPROVED FOR PRODUCTION
Date_____
As Drawn_____ As Noted_____
Client_____
Sales Rep_____
Project Mgr_____

DETAIL E
COLLAR AT BOTTOM FOR MOUNTING



Face Elevation
Scale: 1" = 2"

DETAIL E

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267
WORK ORDER NUMBER
69021
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

NO.	BY	DATE	
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HC
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05/18/12
FILE NAME
CityOf TakomaPk/29267
PAGE
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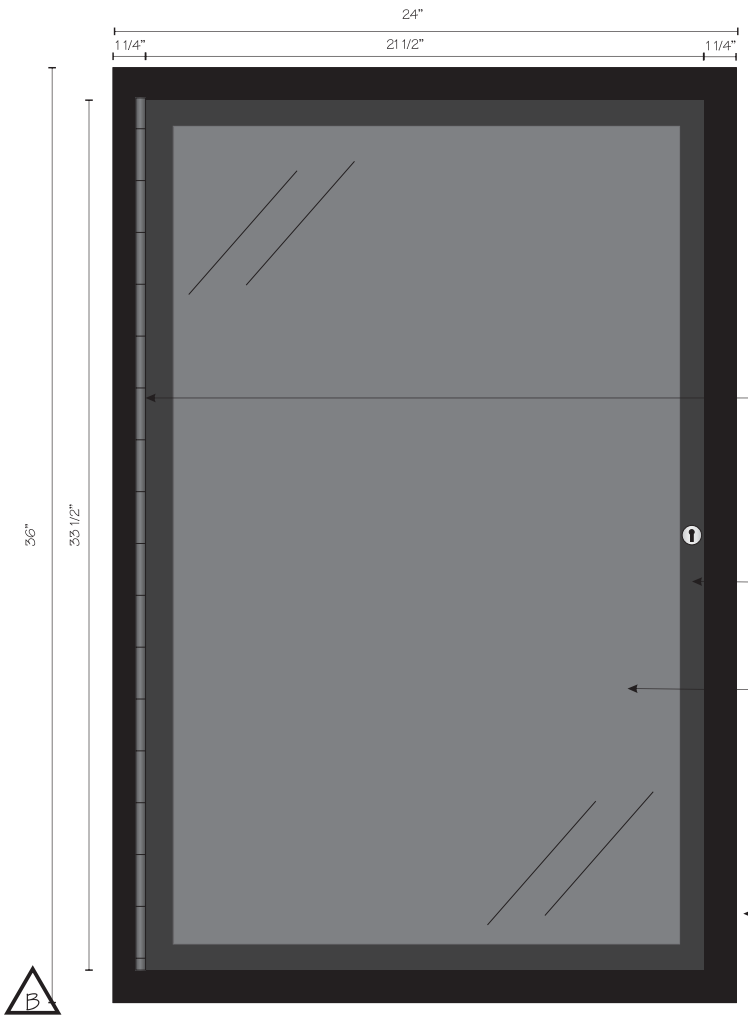
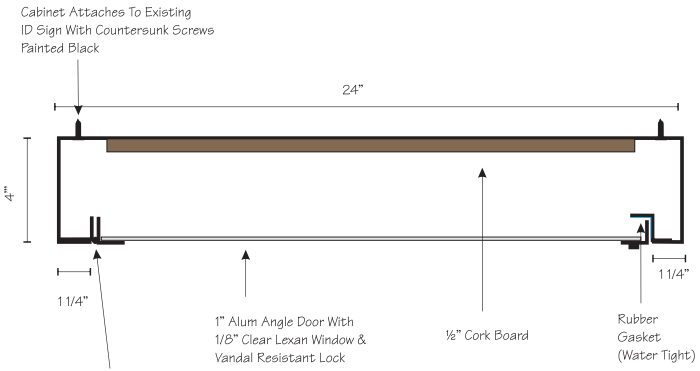
APPROVED FOR PRODUCTION
Date_____
As Drawn_____ As Noted_____
Client_____
Sales Rep_____
Project Mgr_____



Face Elevation
Scale: 1 1/2"= 1'-0"



Section View
Scale: 1 1/2"= 1'-0"

1" Alum Angle Door With
1/8" Clear Lexan Window &
Vandal Resistant Lock

½" Cork Board (Black)

4" Deep .090 Alum Cabinet
Painted Black

Two (2) Water Tight Cabinets For Changeable Messages.
Cabinets Mount To Existing Monument Signs

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267
WORK ORDER NUMBER
69021
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
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HC
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05/18/12
FILE NAME
CityOf TakomaPk/29267
PAGE
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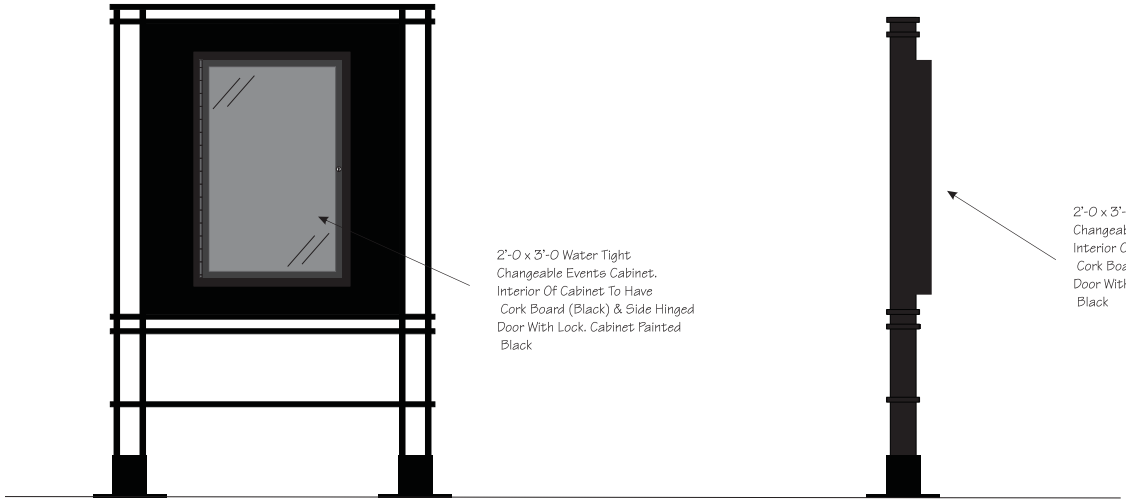
APPROVED FOR PRODUCTION
Date_____
As Drawn_____ As Noted_____
Client_____
Sales Rep_____
Project Mgr_____

SIGN TYPE B - Chanegable Events Cabinet



B Face Elevation
Scale: 3/4" = 1'-0"

SIGN TYPE B - Chanegable Events Cabinet

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267
WORK ORDER NUMBER
69021
CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
SALESPERSON
FP
REVISIONS

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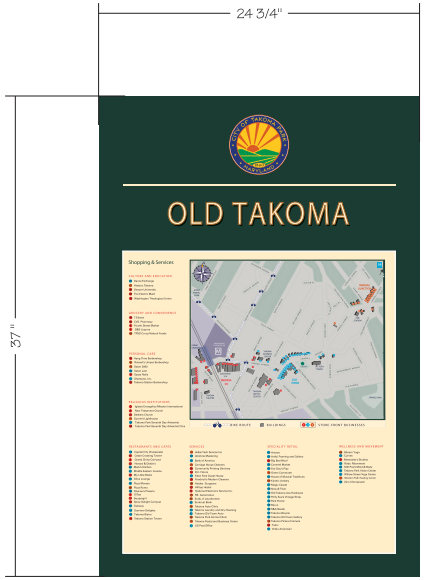
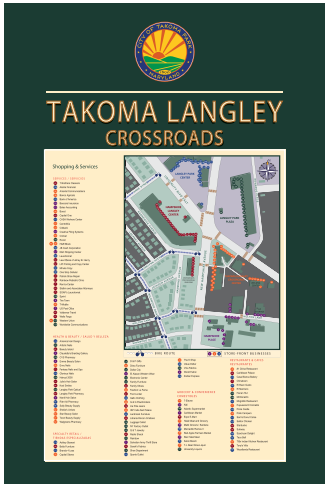
CityOf TakomaPk/29267
PAGE
7 of 8

APPROVED FOR PRODUCTION
Date_____
As Drawn_____As Noted_____
Client_____
Sales Rep_____
Project Mgr_____



Qty = 2



Qty = 4

Six (6) 37" x 24-3/4" digitally printed maps & legends
w/ Graffiti Resistant laminate, applied 1st surface
to existing signs.
Remove existing prints & replace with new.

D Face Elevation
Scale: 3/4"= 1'-0"

SIGN TYPE D Digital Prints

SignArt
6225 Old Concord Road
Charlotte, NC. 28213
704.597.9801
704.597.9808 fax
800.929.3521

BID NUMBER
29267
WORK ORDER NUMBER
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CLIENT
City Of Takoma Pk
LOCATION
Takoma Pk
Maryland
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Client_____
Sales Rep_____
Project Mgr_____

City of Takoma Park Wayfinding Sign System
Addendum: Neighborhood Identification Signs

The City's Coordinated Wayfinding sign system was not developed to include a sign type for specific neighborhoods due to the dynamic and personal understanding of a neighborhood as representing individual or group identity. Within the sign system, the Primary Gateway, and Building Identification signs have customized 'art panels' affixed below that celebrate the identity and heritage of neighborhoods, commercial districts, and cultural practices in Takoma Park.

In 2014, City staff was directed to follow up with a resident request for signage that specifically identified their neighborhood area. Housing and Community Development staff, with input from Public Works staff, developed a Neighborhood Identification Sign at defined locations, and process for installation, as an addendum to the Takoma Park Wayfinding Sign System.

Designs

The two size and colors can be used depending on the color preference of the neighborhood and length of its name. It is advised that neighborhoods use a consistent color for all their signs.

Size: 18.5"x12"
Color: Dark Green (AKZO-NOBEL #454-E2)
Font: Highway Gothic Regular

Size: 18.5''x8"
Color: Blue PMS 280cvc
Font: Highway Gothic Regular

Locations

To control for the number of potential new signs erected throughout the City, Neighborhood Identification Signs would be only placed under existing A.3 Tertiary Gateway logo pendants, typically found along the City's boundaries (see enclosed map). The sign designs are of specified size and color, consistent with the City of Takoma Park's approved coordinated Wayfinding Sign system.

Installation Process

Neighborhoods as defined on the list of official residents/community associations maintained by the City Clerk's office may request Neighborhood Identification Signs through the mini-Grant process (www.takomaparkmd.gov/cityclerk/fy14-mini-grants). The grant would pay the cost of purchasing and installing the signs (design specifications can be made publicly available) and the Grant review committee would require the proposal met the sign design and location criteria, outlined above.

SIGNS

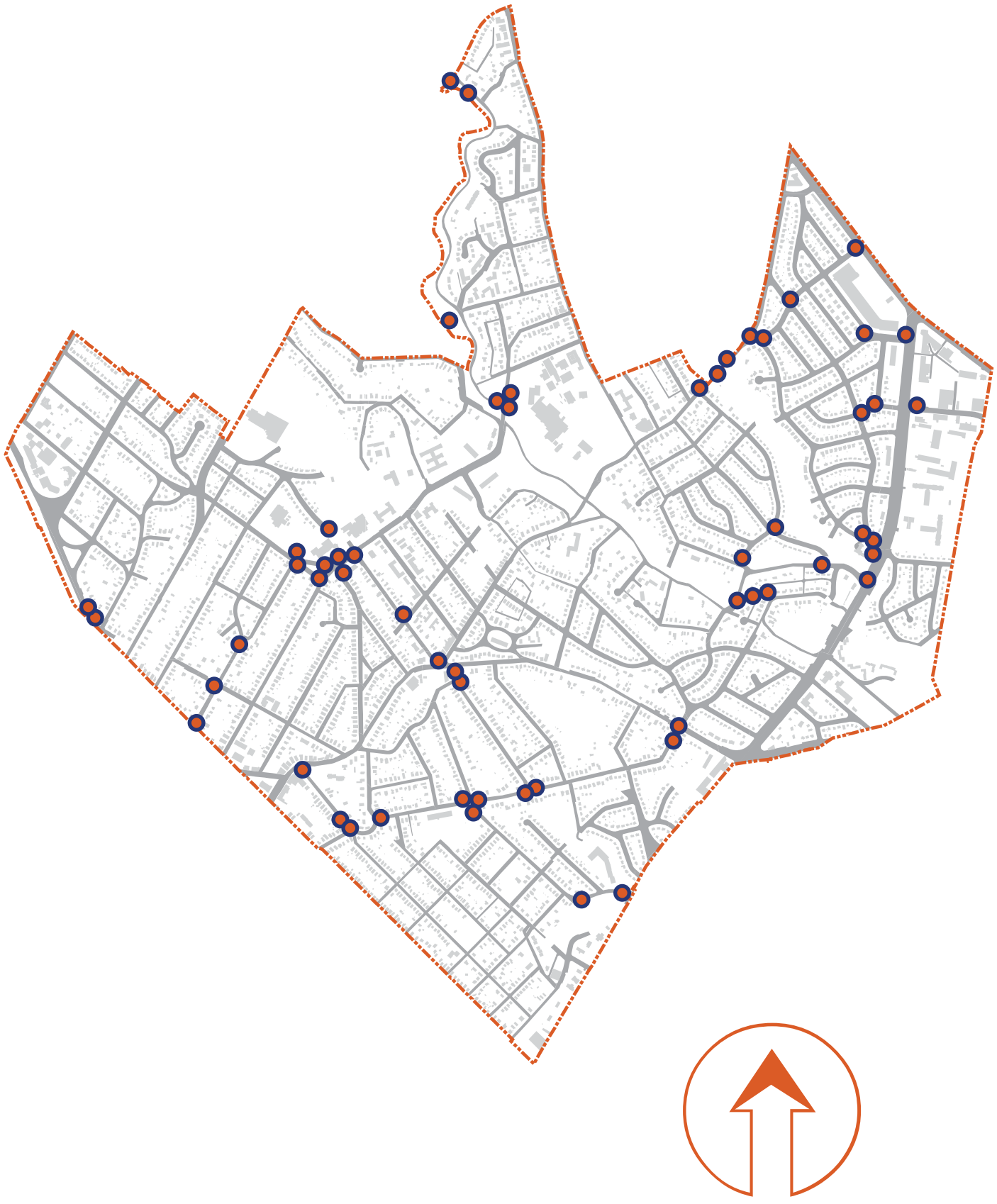
PRODUCT	**TAKOMA PARK BICYCLE WAYFINDING SIGNS**
VENDOR	**NEWMAN SIGNS**
INVENTORY	58 LOCATIONS AROUND THE CITY
DIMENSIONS	BIKE ROUTE SIGN (WITH CITY LOGO): 24” X 12“ DIRECTIONAL WAYFINDING SIGNS WITH TEXT: 24” X 5“ / 10” / 15“
MATERIALS	STEEL TRAFFIC SIGNS
FINISHES & COLORS	1.875” WHITE CLEARVIEW TEXT ON GREEN BACKGROUND REFLECTIVE FINISH.
PURCHASE & INSTALLATION	NEW AND REPLACEMENT WAYFINDING SIGNS SHOULD ALWAYS INCLUDE TAKOMA PARK BIKE ROUTE SIGN WITH CITY LOGO IN FRONT WHEEL ALONG WITH DIRECTIONAL SIGNS. BICYCLE WAYFINDING SIGNS TO BE USED IN TAKOMA PARK ON STREETS, TRAILS, AND OTHER BIKEWAY CONNECTIONS. THE SEGMENT OF THE METROPOLITAN BRANCH TRAIL ON THE WEST SIDE OF THE CITY MAY REQUIRE BRANDED SIGNAGE IN ADDITION TO THESE SPECIFICATIONS. WHEN REPLACING OLDER/EXISTING BIKE SIGNS, USE THESE NEW SPECIFICATIONS. FOR INSTALLATION OF NEW SIGNS ALONG A ROUTE, CREATE A DETAILED SIGN PLAN WITH DIRECTIONAL ARROWS, DISTANCES IN MILES, AND USING EXISTING PEPCO POLES AND U-CHANNELS TO GREATEST EXTENT POSSIBLE. INCLUDE ONE BIKE ROUTE SIGN WITH ALL DIRECTIONAL SIGNS. TEXT ON DIRECTIONAL SIGNS SHOULD BE 1 LINE (5” TALL), 2 LINES (10“ TALL), OR 3 LINES (15” TALL).
CUSTOM PRODUCTS	TAKOMA PARK BIKE ROUTE SIGN WITH CITY LOGO IN FRONT WHEEL (TECHNICALLY NOT MUTCD APPROVED)

PHOTOS

BRANDED BIKE SIGN WITH CITY LOGO AND DIRECTIONAL WAYFINDING SIGN ON POPLAR AVENUE ON PEPCO POLE.

BIKE ROUTE SIGN WITH DIRECTIONAL WAYFINDING SIGN AT THE INTERSECTION OF PHILADELPHIA AND CEDAR AVENUES ON U-CHANNEL (OLDER PURCHASE, MAY BE UPDATED).

SIGNS - BICYCLE WAYFINDING SIGNS



BICYCLE WAYFINDING SIGNS

CITY BOUNDARY

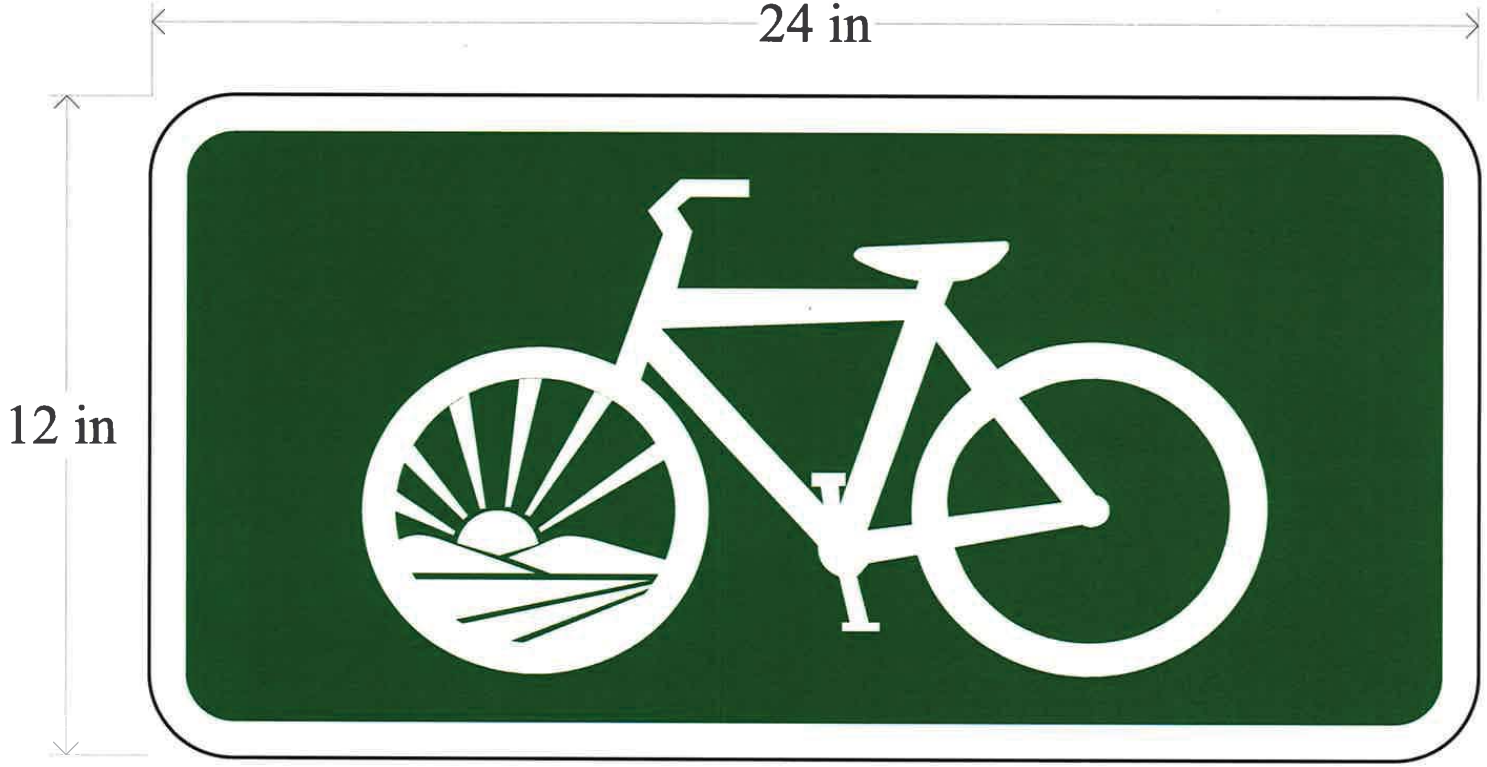
0 0.25 0.50 1 MILES

NEWMAN

PROOF

ARTWORK APPROVAL NEEDED

Please check over this proof very carefully for errors including spelling. By signing below, you assume all responsibility for measurement and typographical errors. All colors are a simulation for placement only and may not match printed colors exactly. Artwork created by Newman Signs is the sole property of Newman Signs. Any reproduction of elements contained within this artwork is strictly prohibited.
IMPORTANT: Your jobs will remain on HOLD until this proof is signed and returned.



Customer Approval _____

- ☐ Approved As-Is
- ☐ Approved with Noted Changes
- ☐ Need New Proof

DATE: 1-7-13
DESIGNER: CR
SAVED AS: MD-BIKE-2412
COLOR: WHITE ON GREEN
SALES REP: BECKY/TINA/TARICA

NEWMAN

PROOF

ARTWORK APPROVAL NEEDED

Please check over this proof very carefully for errors including spelling. By signing below, you assume all responsibility for measurement and typographical errors. All colors are a simulation for placement only and may not match printed colors exactly. Artwork created by Newman Signs is the sole property of Newman Signs. Any reproduction of elements contained within this artwork is strictly prohibited.

IMPORTANT: Your jobs will remain on HOLD until this proof is signed and returned.

1.875" CLEARVIEW 1-W

1.875" CLEARVIEW 1-W

1.875" CLEARVIEW 1-W

1.875" CLEARVIEW 1-W

Customer Approval _____

- ☐ Approved As-Is
- ☐ Approved with Noted Changes
- ☐ Need New Proof

DATE: 6-2-14
DESIGNER: CR
SAVED AS: MD-TAK014-245
COLOR: WHITE ON GREEN
SALES REP: TARICA/KIRSTIE

NEWMAN

PROOF

ARTWORK APPROVAL NEEDED

Please check over this proof very carefully for errors including spelling. By signing below, you assume all responsibility for measurement and typographical errors. All colors are a simulation for placement only and may not match printed colors exactly. Artwork created by Newman Signs is the sole property of Newman Signs. Any reproduction of elements contained within this artwork is strictly prohibited. IMPORTANT: Your jobs will remain on HOLD until this proof is signed and returned.

1.875" CLEARVIEW-1W

1.875" CLEARVIEW-1W

1.875" CLEARVIEW-1W

1.875" CLEARVIEW-1W

Customer Approval _____

- ☐ Approved As-Is
- ☐ Approved with Noted Changes
- ☐ Need New Proof

DATE: 6-6-14
DESIGNER: CR
SAVED AS: MD-TAK014-2410
COLOR: WHITE ON GREEN
SALES REP: TARICA/KIRSTIE

NEWMAN

PROOF

ARTWORK APPROVAL NEEDED

Please check over this proof very carefully for errors including spelling. By signing below, you assume all responsibility for measurement and typographical errors. All colors are a simulation for placement only and may not match printed colors exactly. Artwork created by Newman Signs is the sole property of Newman Signs. Any reproduction of elements contained within this artwork is strictly prohibited.

IMPORTANT: Your jobs will remain on HOLD until this proof is signed and returned.

24 in

15 in

1.875"
CLEARVIEW 1-W

1.875"
CLEARVIEW 1-W

1.875"
CLEARVIEW 1-W

Customer Approval _____

- ☐ Approved As-Is
- ☐ Approved with Noted Changes
- ☐ Need New Proof

DATE: 6-2-14
DESIGNER: CR
SAVED AS: MD-TAK014-2415
COLOR: WHITE ON GREEN
SALES REP: TARICA/KIRSTIE

SIGNS

PRODUCT — **STREET NAME SIGNS**

VENDOR — N/A - TYPICALLY PRODUCED BY TAKOMA PARK PUBLIC WORKS.

MATERIALS — SIGNS PRODUCED BY PUBLIC WORKS ARE MADE OF THICK GREEN PLASTIC. SIGNS PRODUCED BY NEWMAN SIGNS ARE MADE FROM ALUMINUM ALLOY 5052-H38 AND ARE PAINTED GREEN.

DIMENSIONS — MINIMUM DIMENSION 6”H X 24”L. MAXIMUM 9”H X 24”L. SEE MEASUREMENT CHART FOR MORE INFO.

COLORS & DESIGN — SIGNS ARE GREEN. FONT IS HELVETICA.

TEXT INDICATING STREET NAME ARE 4”H WITH MINIMUM TEXT WIDTH 55% OF THE LETTERS’ HEIGHT. TEXT INDICATING STREET TYPE ARE 2”H AND TEXT INDICATING BLOCK NUMBER IS 1.5”H. STREET NAME SHOULD BE SPACED 2” AWAY FROM STREET TYPE AND BLOCK NUMBER. MINIMUM 1” SPACING AROUND TEXT FROM TOP AND BOTTOM OF SIGN.

PURCHASE & INSTALLATION — ALL SIGNS ON U-CHANNELS ARE INSTALLED BY THE CITY.

SIGNPOSTS ARE EITHER 10’ OR 12’ LONG, DEPENDING ON NUMBER OF SIGNS TO MOUNT ON POST. POSTS HOLDING A SINGLE SIGN SHOULD BE 10’ LONG AND POSTS HOLDING MULTIPLE SIGNS SHOULD BE 12’ LONG. CLEARANCE BETWEEN GROUND AND LOWER EDGE OF THE SIGN SHOULD BE AT LEAST 7’.

NOTE: PLATE HEIGHT SHOULD ALWAYS BE IN 6” INCREMENTS.

SPECS

SPECS FOR CITY STANDARD STREET NAME SIGNS, INCLUDING LETTERING DIMENSIONS AND SPACING.

Criteria	Plate Height	Letter Height	Letter Width	Minimum length of sign (per Montgomery County standards)	Maximum Length
Residential streets	6"	See below	Min. 55% of character height (2.2")	18"	48"
Primary Text (Street names)	N/A	4"	Min. 55% of height		
Street type	N/A	2"	Min. 55% of height		
Blocks	N/A	1.5"	Min. 55% of height		
Non-residential streets	9"		Min. 55% of height	18"	48"
Business districts and state roads	N/A	5"	Min. 55% of height		
ADA Guideline Source					

SPECIFIC PLATE AND LETTER MEASUREMENTS FOR RESIDENTIAL AND NON-RESIDENTIAL STREET SIGNS.

Takoma Park Streetscape Manual

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SIDEWALKS

PRODUCT	**CONCRETE**
VENDOR	N/A - INSTALLED BY PUBLIC WORKS OR CITY CONTRACTOR
DIMENSIONS	THE CITY AIMS TO BUILD NEW SIDEWALKS IN RESIDENTIAL AREAS THAT ACHIEVE A WIDTH OF 5 FEET (WIDER IN COMMERCIAL AREAS). MANY EXISTING RESIDENTIAL SIDEWALKS ARE 4 FEET WIDE. WHERE THERE ARE SPACE CONSTRAINTS, A MINIMUM WIDTH OF 36 INCHES MUST BE ACHIEVED TO ACCOMMODATE WHEELCHAIRS. THIS MINIMUM WIDTH IS ONLY ALLOWED FOR SHORT DISTANCES AROUND OBSTRUCTIONS.
MATERIALS	MSHA CONCRETE MIX #3, #6, AND #9 ARE USED FOR SIDEWALKS DEPENDING ON ANTICIPATED WEIGHT AND LOAD. A HYDROPHOBIC TOP COAT TREATMENT IS OFTEN APPLIED (WEARS OFF IN ABOUT A YEAR). REFER TO SPECIFICATIONS FROM THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS OFFICE OF MATERIALS TESTING FOR COMPOSITION OF CONCRETE MIX.
FINISHES & COLORS	PAINTING OF SIDEWALKS AND CURBS IS TO BE CONSISTENT WITH CITY POLICY.
PURCHASE & INSTALLATION	CONTRACTORS ARE DIRECTED TO FOLLOW MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS IN REGARDS TO DEPTH, SLOPE, AND CURB CONSTRUCTION.
PHOTOS	

MARYLAND STATE HIGHWAY ADMINISTRATION Mix 3

OFFICE OF MATERIALS TECHNOLOGY

CONCRETE TECHNOLOGY DIVISION

CONCRETE MIX DESIGN

Mix Code No.: S3W-N35-8-12 Date : 29-Mar-12

Design Strength 3500 P.S.I. Slump: 2 - 5 in

Max. Allow. H_2O 34.8 Gallons / C.Y. Max. W/C Ratio .50

(1)	(2)	(3)	(4)	(5)
		[(5) x (4)] x 62.4		(3) / [(4) x 62.4
Material	**Proportion Percentage**	**Design Weights lbs. Per C.Y.**	**Specific Gravity**	**Absolute Vol. (cubic ft.)**
Cement	65.0	377	3.15	1.92
G.I.B.F.S	35.0	203	2.95	1.10
Sand (SSD)	40.4	1220	2.62	7.46
No. 57 Agg	59.6	1800	2.72	10.61
Water	32.0 Gal	267	1.00	4.28
Estimated Air %	6.5	Air Volume = 27 x Est. Air %		1.76
			Total Volume =	27.13
			Theoretical Weight of Mix lbs./cu.ft.	142.54

Producer	Rockville Fuel & Feed Co., Inc.	Plant	Rockville
Cement	Essroc - Martinsburg	GIBFS	Lafarge-NewCem
No. 57 Agg.	Lafarge-Frederick	Sand	Chaney-Waldorf
Air Ent.Admix	Daravair AT 60	Dosage Rate	¼ - 4 oz/cwt
Reducing Admix.	WRDA 35	Dosage Rate	2 - 4 oz/cwt

NOTE:This mix design was evaluated by trial batch on Mar-03
It meets all specification requirements.

REMARKS:

APPROVAL RECOMMENDED

for

Vicki R. Stewart
Assistant Division Chief
Concrete/Chemical/Cement Laboratory

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY
CONCRETE TECHNOLOGY DIVISION
CONCRETE MIX DESIGN

Mix 9

Mix Code No.: S9WH-8-1 Date : 29-Mar-12

Design Strength @ 12 HRS 2500 P.S.I. Slump: 4 - 8 in
@ 24 HRS 3000 P.S.I.

Max. Allow. H_2O 43.2 Gallons / C.Y. Max. W/C Ratio .45

(1)	(2)	(3)	(4)	(5)
		[(5) x (4)] x 62.4		(3) / [(4) x 62.4
Material	**Proportion Percentage**	**Design Weights lbs. Per C.Y.**	**Specific Gravity**	**Absolute Vol. (cubic ft.)**
Cement	100.0	800	3.15	4.07
G.I.B.F.S				
Sand (SSD)	39.9	1128	2.60	6.95
No. 57 Agg	60.1	1700	2.72	10.02
No. Agg.				
Water	32.0 Gal	267	1.00	4.28
Estimated Air %	6.5	Air Volume = 27 x Est. Air %		1.76
			Total Volume =	27.08
			Theoretical Weight of Mix lbs./cu.ft.	143.83

Producer	Rockville Fuel & Feed Co., Inc.	Plant	Rockville
Cement	Essroc - Martinsburg	GIBFS	
No. 57 Agg.	Lafarge-Frederick	Sand	Chaney-Waldorf
Air Ent.Admix	Daravair AT 60	Dosage Rate	¼ - 4 oz/cwt
Reducing Admix.	WRDA 35	Dosage Rate	3 oz/cwt
HRWR Admix.	EXP 950	Dosage Rate	4 oz/cwt

NOTE:This mix design was evaluated by trial batch on Feb-00
It meets all specification requirements.

REMARKS:

APPROVAL RECOMMENDED

for
Vicki R. Stewart
Assistant Division Chief
Concrete/Chemical/Cement Laboratory

Takoma Park Streetscape Manual

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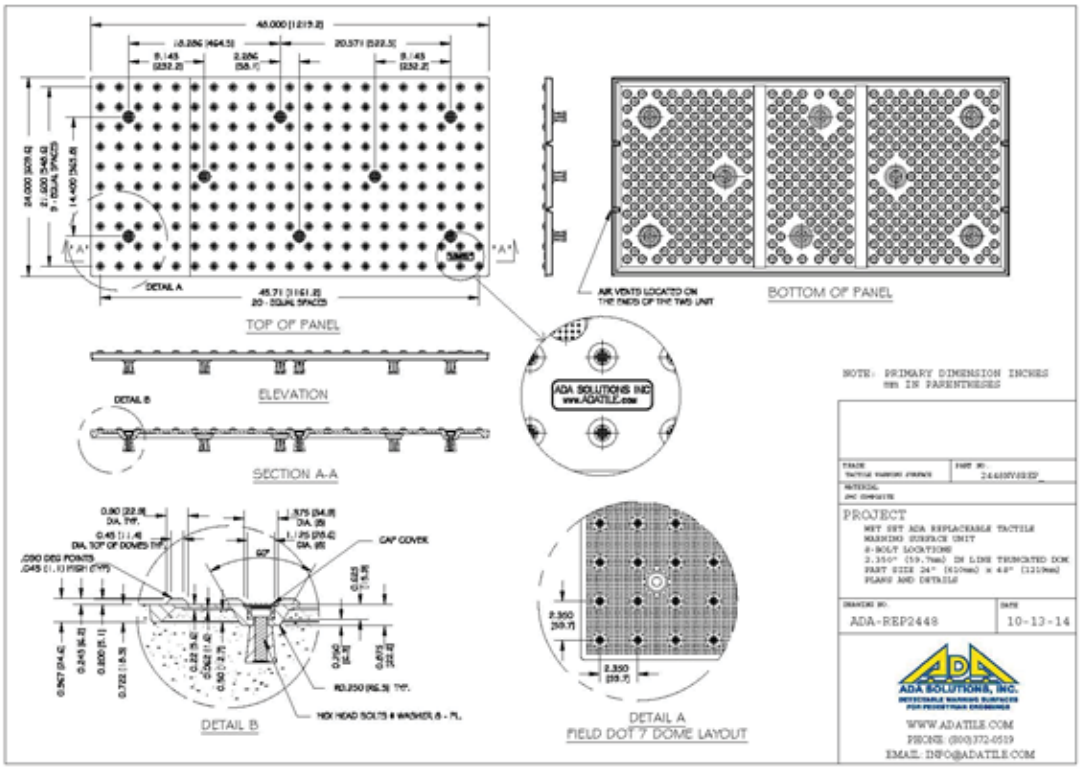
SIDEWALKS

PRODUCT	**ADA DETECTABLE WARNING MATS**
VENDOR	ADA SOLUTIONS
MATERIALS	GLASS AND CARBON REINFORCED COMPOSITE
DIMENSIONS	MINIMUM 24” WIDE. MAT SHOULD BE SAME LENGTH AS CONNECTING SIDEWALK.
COLORS & DESIGN	STANDARD COLOR IS “BRICK RED”. SOME EXISTING MATS ARE IN “FEDERAL YELLOW”, WHOSE USE HAS BEEN DISCONTINUED BY THE CITY.
PURCHASE & INSTALLATION	REQUIRED BY 49 CFR, PART 37 AND BY THE AMERICANS WITH DISABILITIES ACT WHERE CURB RAMPS ARE CONSTRUCTED AT THE JUNCTION OF SIDEWALKS AND THE ROADWAY, FOR MARKED AND UNMARKED CROSSWALKS. CAN BE PRE-FILLED WITH CONCRETE AND SET IN PLACE OR PRESSED INTO PLACE IN THE FRESHLY POURED CONCRETE.

SPECS



Takoma Park Streetscape Manual

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SIDEWALKS

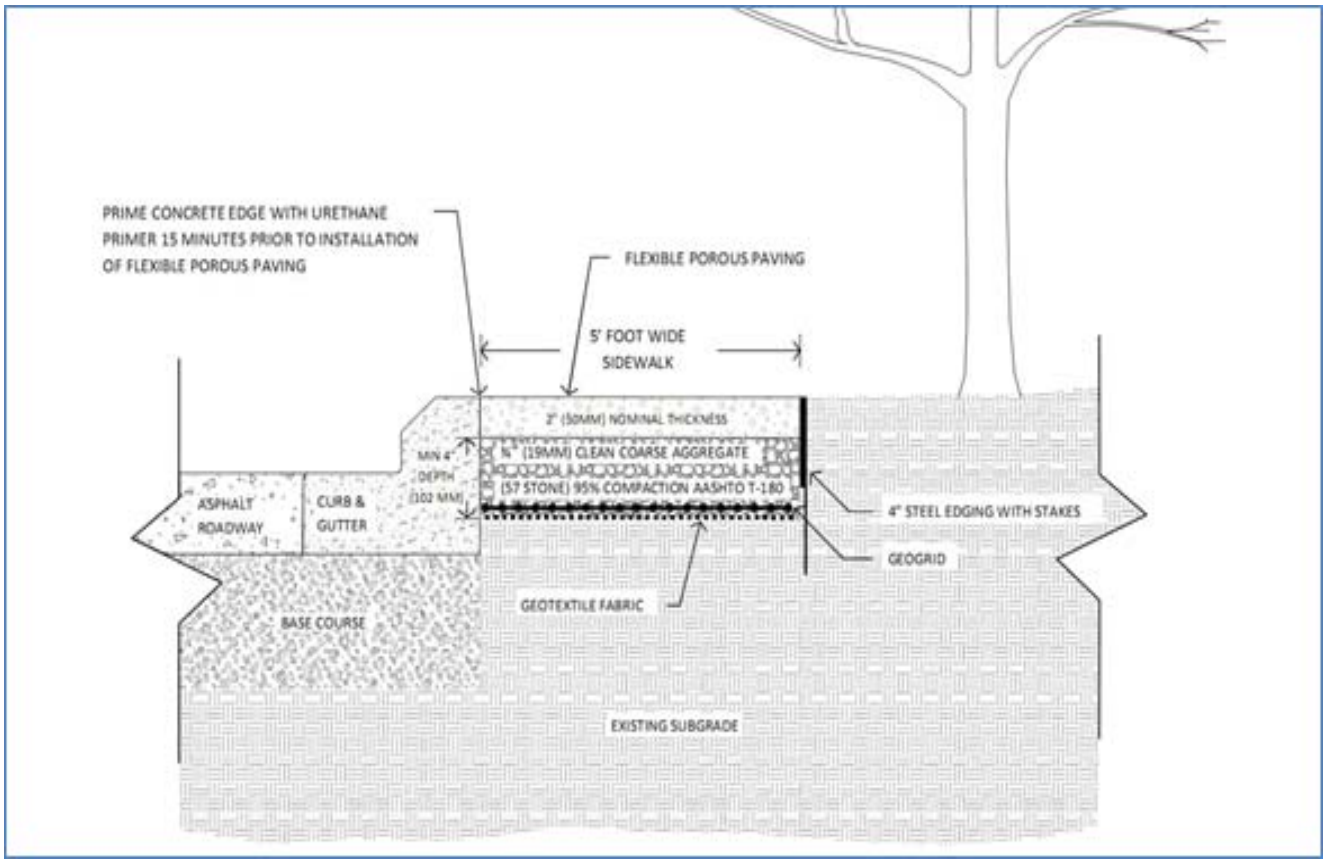
PRODUCT	**FLEXI-PAVE**
VENDOR	CAPITOL FLEXI-PAVE
INVENTORY	FLEXI-PAVE IS INSTALLED THROUGHOUT THE CITY AS SIDEWALK IN AREAS ADJACENT TO TREES TO PROVIDE OXYGEN AND WATER TO TREE ROOTS WHILE PROVIDING A FLEXIBLE YET ADA-COMPLIANT SURFACE FOR WALKING, SUCH AS: - SIDEWALKS, DRIVEWAY APRONS, AND UNPROTECTED TREE ROOT ZONES THROUGHOUT THE CITY - SMALL TREE BOXES IMPACTED BY PEDESTRIANS NEAR ON-STREET PARKING IN COMMERCIAL AREAS
MATERIALS	MADE OF NOMINAL 3/8” WIRE-FREE SBR RECYCLED TIRE GRANULES, NOMINAL 3/8” - 1/2” INCH SIZE AGGREGATE ROCK, AND PROPRIETARY SOLE-SOURCE BINDING AGENT.
FINISHES & COLORS	MOSSY SLATE
PURCHASE & INSTALLATION	CAPITOL FLEXI-PAVE IS A SOLE-SOURCE PROVIDER AND INSTALLER.

PHOTOS

FLEXI-PAVE SAMPLE IN MOSSY SLATE. MOSSY SLATE IS CURRENTLY USED IN CITY PROJECTS.

RAIL-MOUNTED BIKE RACKS AT RECREATION CENTER SITTING ON A FLEXI-PAVE PAD.

SIDEWALKS - FLEXI-PAVE



FLEXI-PAVE SIDEWALK DETAIL SOURCE. OBTAINED FROM WWW.CAPITOLFLEXIPAVE.COM.

SIDEWALKS

PRODUCT **LARGE TREE BOXES**

INVENTORY 13 BOXES:

- 7 ON LAUREL AVENUE BETWEEN EASTERN AND CARROLL AVENUES
- 4 ON CARROLL AVENUE NEAR INTERSECTION OF LAUREL AVENUE
- 2 ON HOLTON LANE NEAR EL ALAZAN / ALDI

DIMENSIONS MINIMUN OF 50 SQ. FT. IN AREA AND PROTECTED FROM ON-STREET PARKING. FOR TREE BOXES SMALLER THAN 50 SQ FT IN AREA AND/OR IMPACTED BY ON-STREET PARKING, SEE SECTION ON FLEX-PAVE PRODUCT.

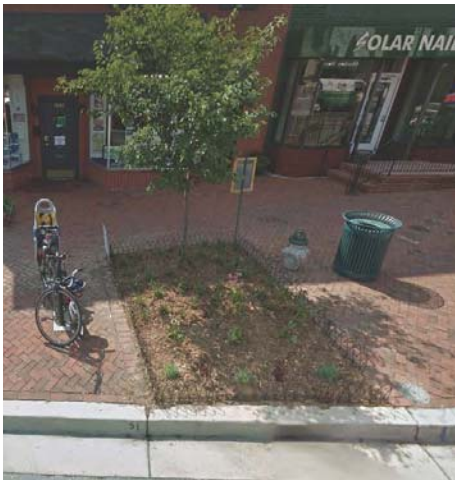
MATERIALS PLANTINGS SHOULD CONSIST OF LOW-MAINTENANCE, DROUGHT-RESISTANT PERENNIALS AND SHRUBS. ALL PLANTINGS SUBJECT TO APPROVAL BY CITY GARDENER AND PUBLIC WORKS. ROCKS MAY BE PLACED THROUGHOUT OR AS TREE BOX BORDER TO PROTECT PLANTINGS. FLEXI-PAVE BORDER MAY BY USED AS TREE BOX BORDER.

INSTALLATION FUTURE INSTALLATIONS OF LARGE TREE BOXES SHOULD BE PROTECTED FROM ON-STREET PARKING WITH AN 18” BUFFER

MAINTENANCE TREE BOXES ARE SCHEDULED TO RECEIVE BI-ANNUAL MAINTENANCE PROVIDED BY PUBLIC WORKS DEPARTMENT AND BI-MONTHLY MULCHING AND WEEDING PROVIDED BY CONTRACTOR (DOWN TO EARTH).

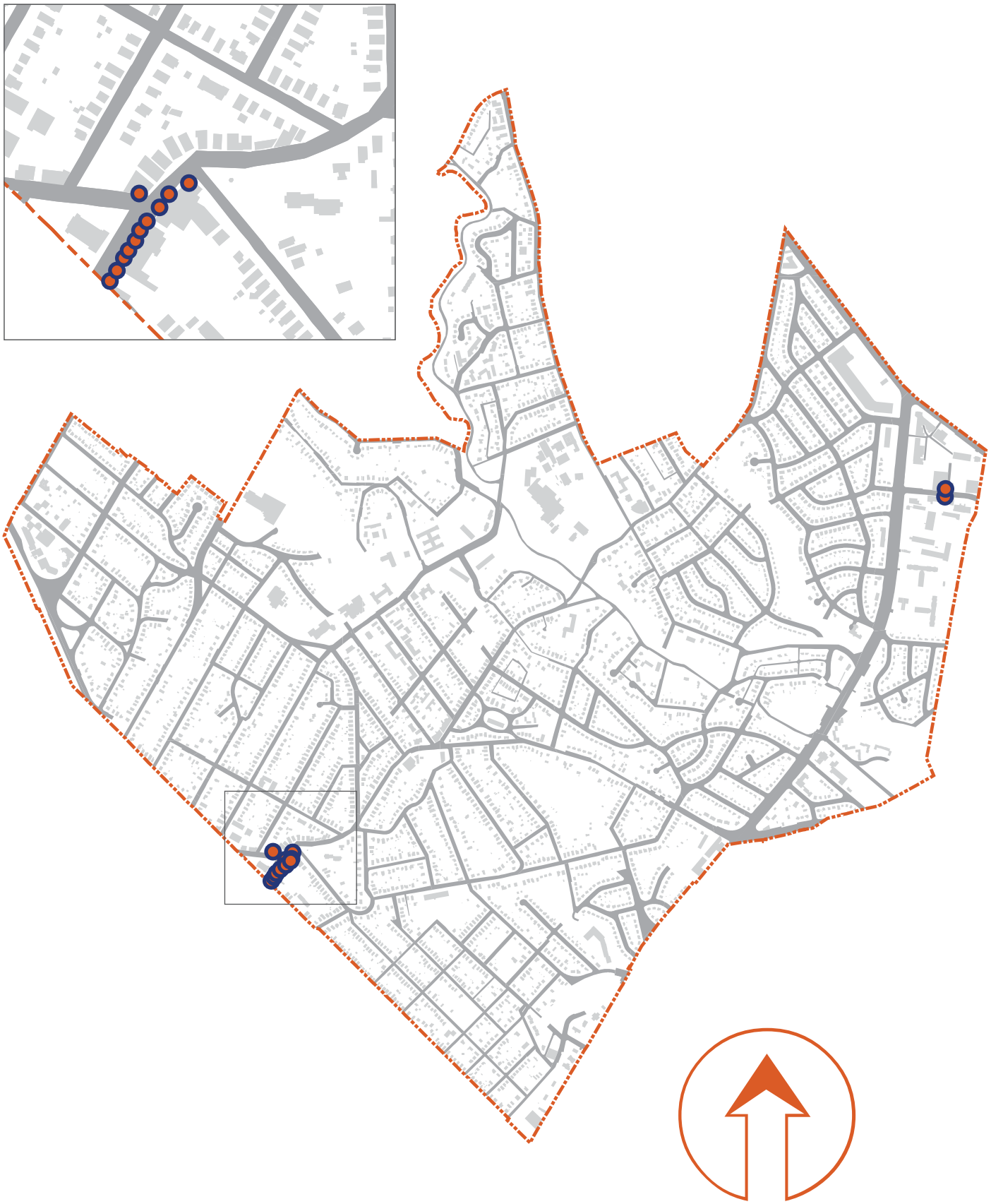
PHOTOS

TREE BOX ON CARROLL AVENUE.



TREE BOX ON CARROLL AVENUE.

SIDEWALKS - LARGE TREE BOXES



TRAFFIC CALMING

PRODUCT **DESIGNED TREATMENTS**

VENDOR N/A - INSTALLED BY PUBLIC WORKS OR CITY CONTRACTOR

INVENTORY DESIGNED TRAFFIC CALMING OPTIONS IN TAKOMA PARK INCLUDE:

- 8 TRAFFIC CIRCLES AT INTERSECTIONS
- 2 RAISED INTERSECTIONS
- ROADWAY NARROWING WITH CURB EXTENSIONS
- SIGNAGE AND ROADWAY MARKINGS
- ROAD / LANE CLOSURES OR DIVERTERS

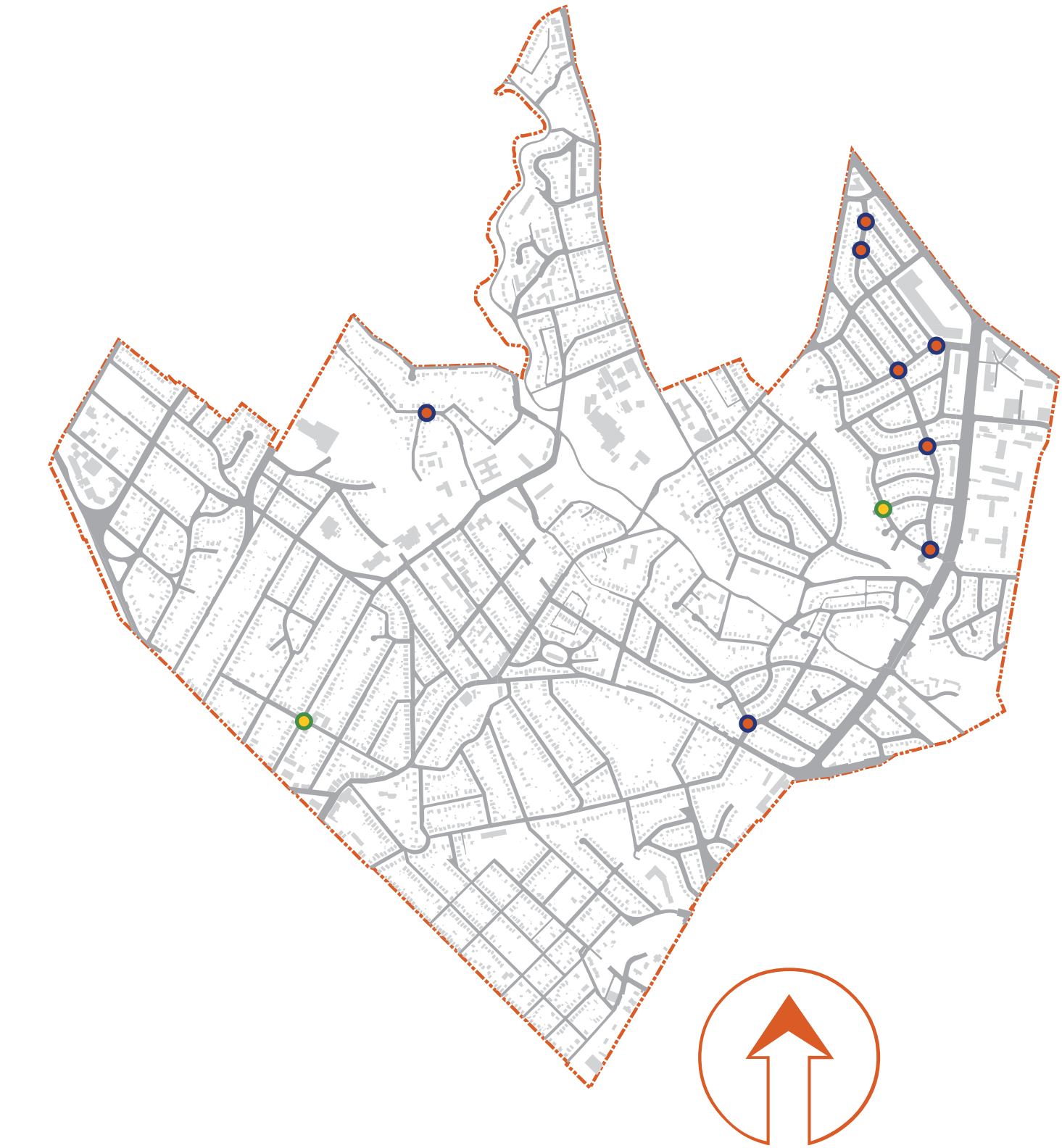
INSTALLATION THE TYPES AND COMBINATIONS OF TRAFFIC CALMING FACILITIES INSTALLED ALONG A ROADWAY SEGMENT OR INTERSECTION ARE DETERMINED BY THE CITY'S CITIZEN-DRIVEN PETITION PROCESS OUTLINED IN ADMINISTRATIVE REGULATION 96-1.

PHOTOS

TRAFFIC IS DIVERTED AT CERTAIN TIMES OF DAY/WEEK BY CLOSING HILLTOP ROAD.

TRAFFIC CIRCLE AT INTERSECTION OF KINGWOOD DRIVE AND WILDWOOD DRIVE.

TRAFFIC CALMING - DESIGNED TREATMENTS



TRAFFIC CALMING

PRODUCT **SPEED HUMP / RAISED CROSSWALK**

VENDOR N/A - INSTALLED BY PUBLIC WORKS OR CITY CONTRACTOR

INVENTORY 182 TOTAL:
- 150 TAKOMA PARK STANDARD SPEED HUMPS
- 19 MONTGOMERY COUNTY STANDARD SPEED HUMPS
- 13 RAISED CROSSWALKS

DIMENSIONS TWO TYPES OF SPEED HUMP DESIGNS ARE CURRENTLY IN USE, BETWEEN 3" TO 4" IN HEIGHT AND 12' IN LENGTH. SEE CUSTOM PRODUCTS AND SPECS FOR MORE DETAILS. RAISED CROSSWALKS ARE 3" IN HEIGHT AND RANGE BETWEEN 16' TO 22'.

MATERIALS SPEED HUMPS MADE OF ASPHALT WITH WHITE THERMOPLASTIC STRIPING.

INSTALLATION THE TYPES AND COMBINATIONS OF TRAFFIC CALMING FACILITIES INSTALLED ALONG A ROADWAY SEGMENT OR INTERSECTION ARE DETERMINED BY THE CITY'S CITIZEN-DRIVEN PETITION PROCESS OUTLINED IN ADMINISTRATIVE REGULATION 96-1.

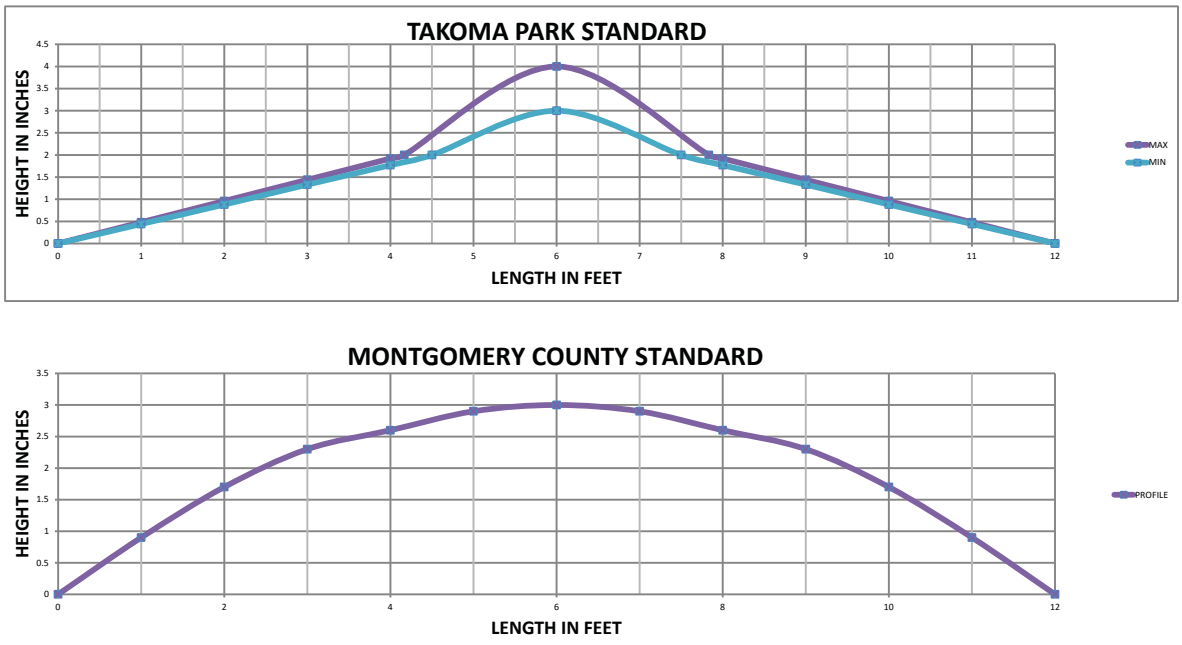
SOME ROADWAY SEGEMENTS HAVE CONSISTENT SPEED HUMP DESIGNS, WHILE OTHERS ALTERNATE BETWEEN THE TWO DESIGNS. SPEED HUMPS THAT ARE REPLACED DUE TO UTILITY OR OTHER WORK ARE TO BE REINSTALLED AS IS.

CUSTOM PRODUCTS THE TAKOMA PARK STANDARD SPEED HUMP IS 12 FEET IN LENGTH. IT RANGES IN HEIGHT BETWEEN 3" AND 4". ITS UNIQUE PROFILE HAS A GRADUAL APPROACH (1:24 SLOPE) FOR THE FIRST 2" OF RISE, AND A MORE PRONOUNCED BUMP (MAX 1:12 SLOPE) FOR THE REMAINING 1-2" RISE. THE CENTER OF THE DRIVE LANES OF THE HUMP ARE STRIPED WITH 1' WIDE WHITE THERMOPLASTIC STRIPES; THREE IF THE STREET IS 18' OR LESS IN WIDTH, OR FOUR IF THE STREET IS OVER 18' WIDE.

THE MONTGOMERY COUNTY STANDARD (A.K.A. "WATTS PROFILE") SPEED HUMP IS 12' IN LENGTH. IT HAS A CONTINUOUS APPROACH ARC 6' IN LENGTH ON EITHER END AND IS 3" IN HEIGHT. IT IS MARKED WITH A TRIANGULAR CHEVRON IN EACH DIRECTION OF TRAVEL.

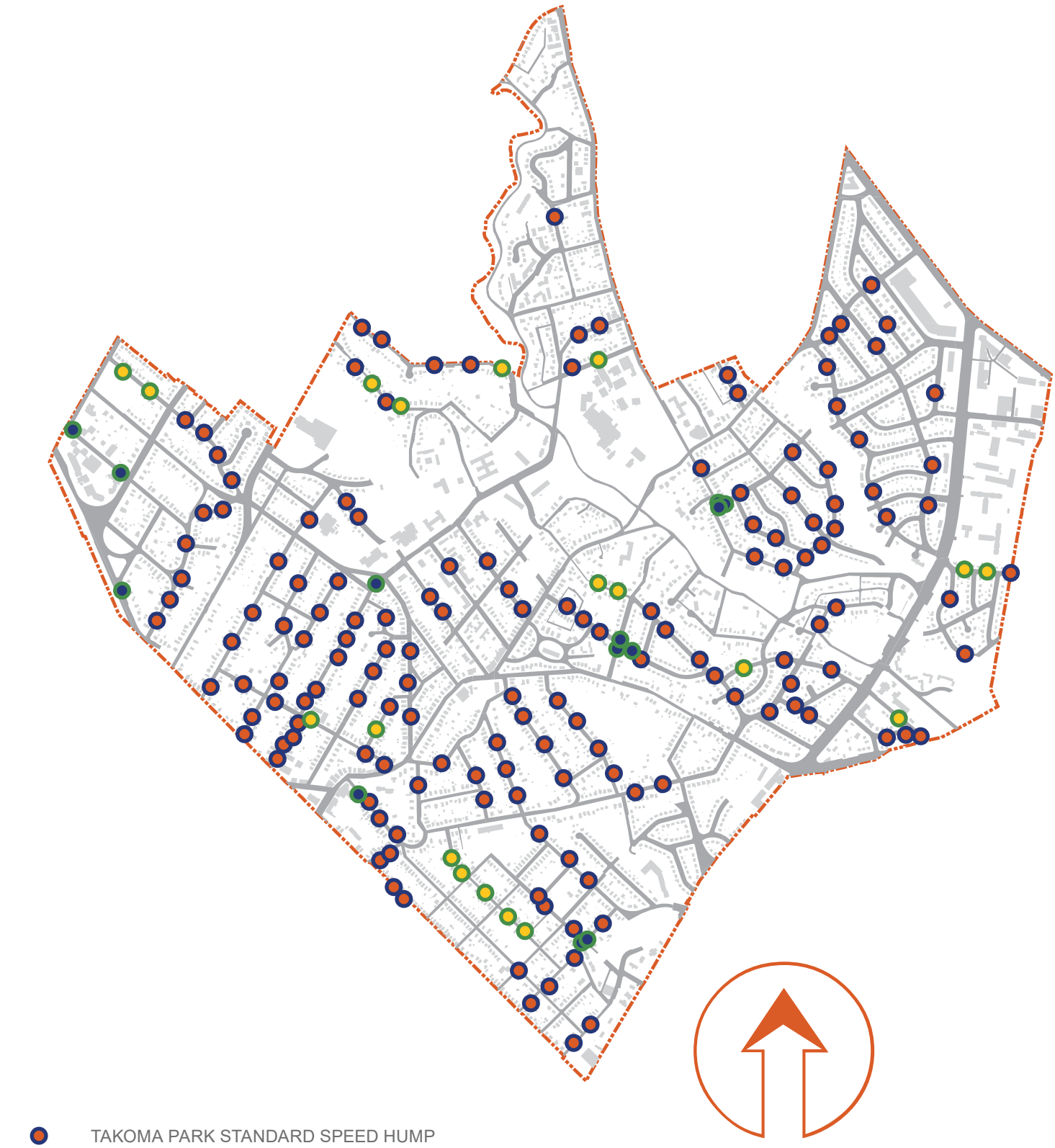
RAISED CROSSWALKS (A.K.A. SPEED TABLES) ARE A VARIATION OF THE MONTGOMERY COUNTY STANDARD SPEED HUMP WITH AN ADDITIONAL FLAT CENTER SECTION RANGING IN LENGTH FROM 4' TO 10' AND THERMOPLASTIC CROSSWALK STRIPING.

SPECS

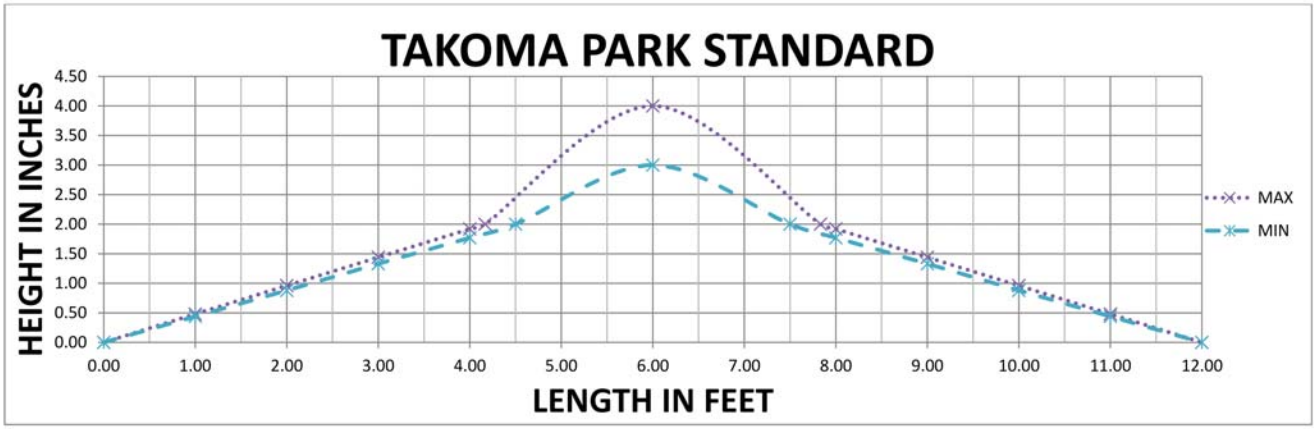


MINIMUM AND MAXIMUM PROFILES FOR TAKOMA PARK AND MONTGOMERY COUNTY STANDARD SPEED HUMPS.

TRAFFIC CALMING - SPEED HUMP / RAISED CROSSWALK



Takoma Park Standard speed hump



Important notes:

Maximum height allowed by CITY'S Code =4"

Minimum height allowed by City's code = 3"

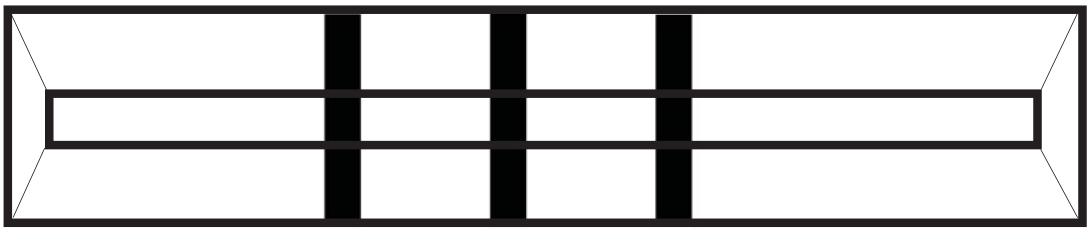
Bump through width 36-44" corresponding to max bump height. Minimum three strips 12-18" width and minimum three equal spacing. Width 44" for 1:12 slope.

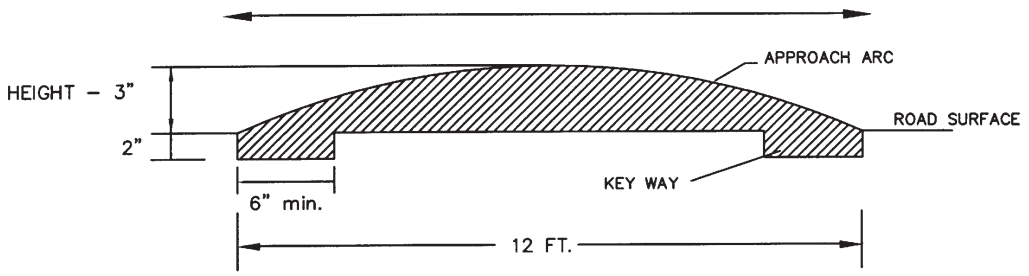
NOTE:

Thermoplastic stripes to be 1' wide and placed centered on the drive lanes

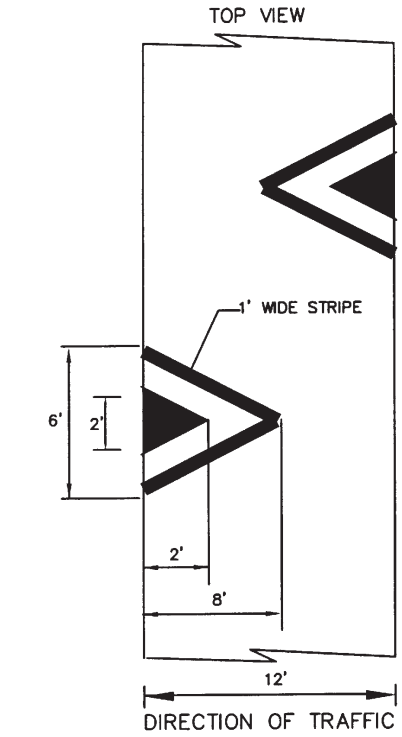
18' street width or LESS; THREE 1' wide longitudinal stripes

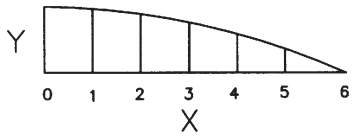
18' street width or MORE; FOUR 1' wide longitudinal stripes





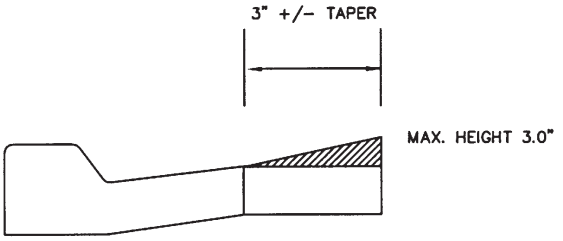
CROSS SECTION AND HUMP DIMENSIONS





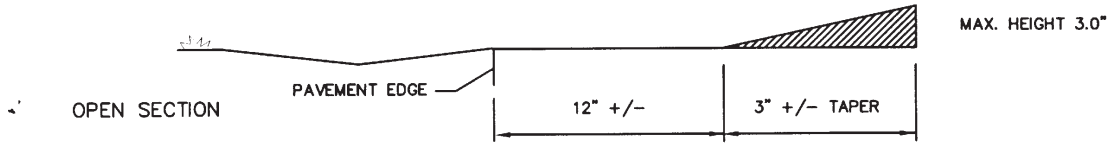
APPROACH ARC DETAIL

X(ft.)	Y(ft.)	Y(inches)
0	0.25	3.0
1	0.24	2.9
2	0.22	2.6
3	0.19	2.3
4	0.14	1.7
5	0.10	0.9
6	0.00	0.0



CLOSED SECTION

NOTE: MARKINGS TO ALIGN WITH CENTER OF TRAVEL LANE

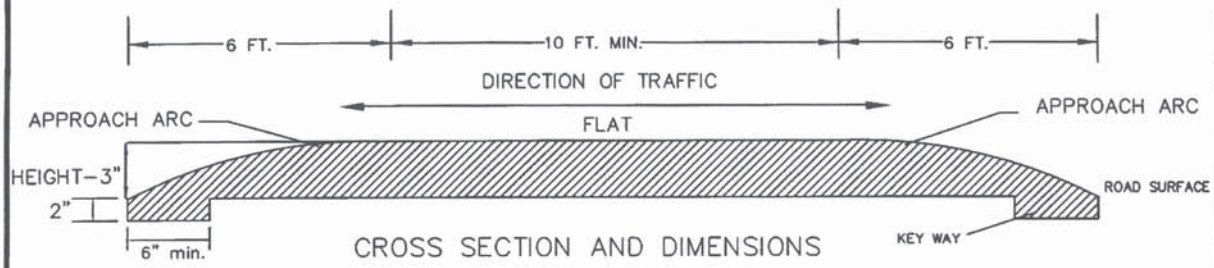


OPEN SECTION

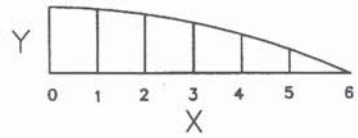
GENERAL NOTES

1. THIS GUIDELINE MAY BE USED ONLY WITH THE PRIOR APPROVAL OF DPWT OR DPS.
2. SIGNING AND MARKING TO BE IN ACCORDANCE WITH APPLICABLE DPWT STANDARD.
3. MODIFY MARKINGS AS NECESSARY FOR ONE WAY STREETS.

APPROVED 3/19/03 DATE MANAGER, RIGHT-OF-WAY PERMITTING AND PLAN REVIEW SECTION	REVISED	MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES SPEED HUMP WATTS PROFILE GUIDELINE

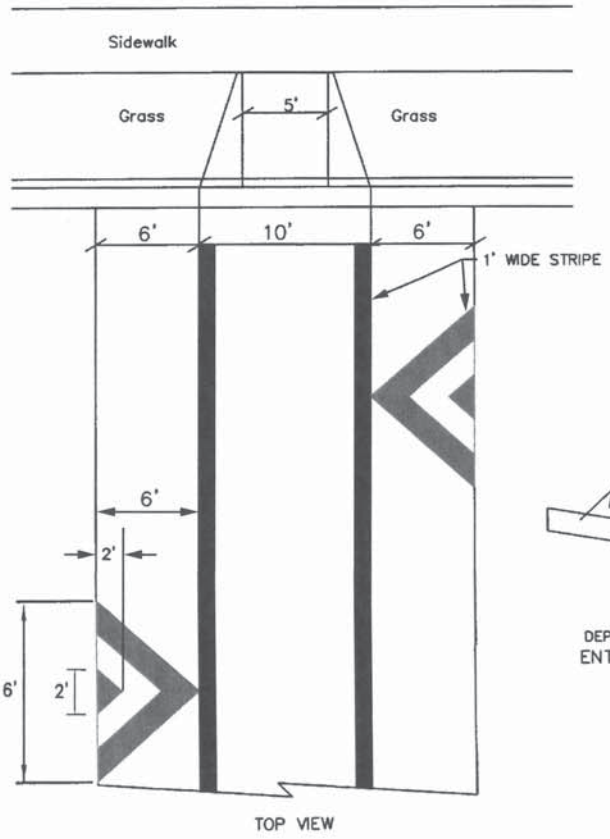


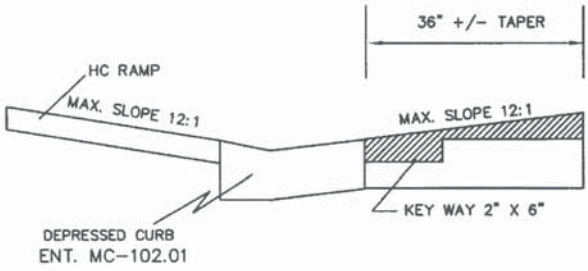
CROSS SECTION AND DIMENSIONS



APPROACH ARC DETAIL

X(ft.)	Y(ft.)	Y(inches)
0	0.25	3.0
1	0.24	2.9
2	0.22	2.6
3	0.19	2.3
4	0.14	1.7
5	0.10	0.9
6	0.00	0.0





NOTE: MARKINGS TO ALIGN WITH CENTER OF TRAVEL LANE

GENERAL NOTES

1. THIS GUIDELINE MAY BE USED ONLY WITH THE PRIOR APPROVAL OF DPWT OR DPS.
2. MATERIALS TO CONFORM WITH APPROVED STORM DRAIN & PAVING PLAN.
3. SIGNING AND MARKING TO BE IN ACCORDANCE WITH APPLICABLE DPWT STANDARD.
4. MODIFY MARKINGS AS NECESSARY FOR ONE WAY STREETS.
5. USE WATTS PROFILE GUIDELINE FOR APPROACH ARC.
6. SEE STANDARD MC 112.01 FOR PEDESTRIAN RAMP.

APPROVED 10/19/2015 DATE MANAGER, RIGHT-OF-WAY PERMITTING AND PLAN REVIEW SECTION	REVISED	CITY OF TAKOMA PARK RAISED CROSSWALK GUIDELINE

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PAVEMENT MARKINGS

PRODUCT

MARKED CROSSWALKS

VENDOR

N/A - INSTALLED BY PUBLIC WORKS OR CITY CONTRACTOR

INVENTORY

90 TOTAL ON CITY RIGHTS OF WAY:

- 28 PARALLEL
- 13 LONGITUDINAL
- 27 LONGITUDINAL WITHOUT PARALLEL LINES
- 18 DIAGONAL
- 4 BRICK PATTERN

MARKED CROSSWALKS TRAVERSING INTERSECTIONS ON STATE HIGHWAYS (SIGNALIZED AND UNSIGNALIZED) ARE MAINTAINED BY THE STATE HIGHWAY ADMINISTRATION AND NOT INCLUDED IN THIS INVENTORY. 32 OF THE 90 MARKED CROSSWALKS ON CITY RIGHTS OF WAY INTERSECT WITH STATE HIGHWAYS AND MAY BE REPLACED BY THE CITY OR STATE ON A PROJECT BASIS.

MATERIALS

ALL CROSSWALKS ARE MARKED IN WHITE THERMOPLASTIC OR PAINT.

FINISHES & COLORS

PARALLEL AND LONGITUDINAL CROSSWALKS ARE IN WHITE. BRICK-PATTERNED CROSSWALKS ARE YELLOW WITH WHITE BORDERS.

PURCHASE & INSTALLATION

TEMPERATURES MUST BE ABOVE FREEZING IN ORDER TO INSTALL. PRIOR TO INSTALLATION, ALL PREVIOUS THERMOPLASTIC MUST BE COMPLETELY REMOVED SO THAT NEW THERMOPLASTIC CAN ADHERE TO ROAD SURFACE.

CROSSWALKS TO BE REPLACED IN-KIND. DISCONTINUED DIAGONAL CROSSWALKS SHOULD BE REPLACED WITH A PARALLEL OR LONGITUDINAL PATTERN.

CUSTOM PRODUCTS

CROSSWALKS ON MAPLE AT GRANT, LEE, AND LINCOLN AVENUES ARE A SPECIAL BRICK PATTERN IN THERMOPLASTIC.

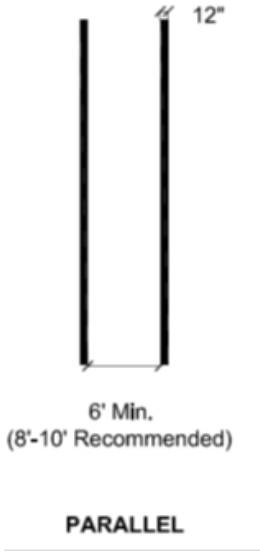
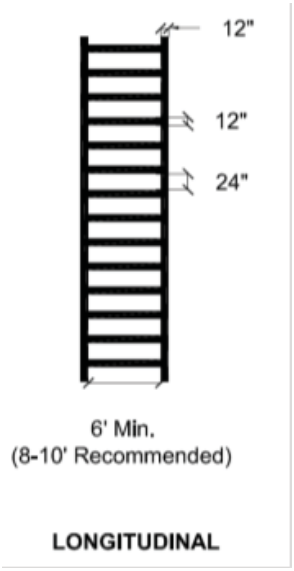
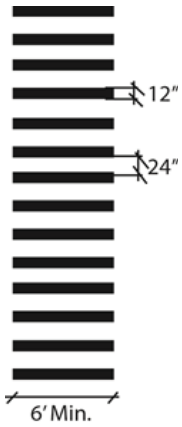
REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION BICYCLE AND PEDESTRIAN DESIGN GUIDELINES FOR FURTHER GUIDANCE ON APPROPRIATE CROSSWALK STYLES AND LOCATIONS.

PHOTOS

LONGITUDINAL CROSSWALK AT MAPLE AVENUE AND GRANT AVENUE INTERSECTION.

BRICK THERMOPLASTIC PATTERN FOR CROSSWALKS ALONG MAPLE AVENUE NEAR PINEY BRANCH ELEMENTARY SCHOOL.

PAVEMENT MARKINGS - MARKED CROSSWALKS

	Parallel	Longitudinal	Longitudinal without parallel lines
Diagram			
Locations	Used in residential neighborhoods with low volume pedestrian crossings	Used in school zones	Used in residential neighborhoods with high volume pedestrian crossings *Example: Tulip & Willow, around the Community Center*
Minimum crosswalk width	6' (8'-10' recommended)	6' (8'-10' recommended)	6' (8'-10' recommended)
Divider lines guidance	N/A	Divider longitudinal lines should be 12" to 24" wide and separated by gaps of 12" to 60". The design of the lines and gaps should avoid wheel paths, if possible, and the gap between the lines should not exceed 2.5 times the width of the striping.	Divider longitudinal lines should be 12" to 24" wide and separated by gaps of 12" to 60". The design of the lines and gaps should avoid wheel paths, if possible, and the gap between the lines should not exceed 2.5 times the width of the striping.
NOTE: When parallel lines are used, they shall be solid white lines not less than 6" and not greater than 24" in width. (Recommended width 12".)			

PAVEMENT MARKINGS

PRODUCT

SHARED LANE SYMBOLS WITH DOUBLE CHEVRONS (A.K.A. "SHARROWS")

VENDOR

ENNIS FLINT

INVENTORY

SHARROWS IDENTIFY SHARED ROADWAYS IN THE FOLLOWING AREAS

- TAKOMA AVENUE
- CARROLL AVENUE
- MAPLE AVENUE

ADDITIONALLY, MODIFIED SHARROWS ARE USED IN 5 LOCATIONS FOR WAYFINDING.

DIMENSIONS

40"(W) X 112"(H), FACING LEFT

MATERIALS

PREFORMED THERMOPLASTIC "PREMARK" PRODUCT

FINISHES & COLORS

ITEM PM600833LVG (ENNIS FLINT), WHITE

PURCHASE & INSTALLATION

SHARROWS TO BE USED ON BIKEWAYS WHERE A BIKE LANE DOES NOT FIT IN THE WIDTH OF THE CARRIAGE WAY (BETWEEN THE CURBS), ON STREETS WITH POSTED SPEED OF 30MPH OR LESS, AND IN TRAVEL LANES BETWEEN 13' AND 15'.

FOLLOW NACTO URBAN BIKEWAY DESIGN GUIDELINES FOR INSTALLATIONS ON CITY RIGHTS-OF-WAY AND MARYLAND STATE HIGHWAY ADMINISTRATION BICYCLE POLICY AND DESIGN GUIDELINES FOR INSTALLATIONS ON STATE RIGHTS-OF-WAY.

NACTO RECOMMENDS INSTALLTION IN CENTER OF TRAVEL LANE; CHEVRON APEX SHOULD BE 4' MINIMUM FROM CURB, OR 11' MINIMUM FROM CURB WITH ON-STREET PARKING.

RECOMMENDED THAT THERMOPLASTIC MARKINGS BE PURCHASED AND INSTALLED BY A CONTRACTOR. WHEN REPLACING EXISTING MARKINGS, REQUEST THAT EXISTING MARKING REMNANTS BE REMOVED BY CONTRACTOR. CITY STAFF SHOULD ACCOMPANY CONTRACTOR DURING INSTALLATION TO ENSURE CORRECT APPLICATION.

CUSTOM PRODUCTS

MODIFIED SHARROW WITH CHEVRONS ANGLED AT 45-DEGREE ANGLE FOR ON STREET WAYFINDING, TO AVOID EXCESSIVE USE OF WAYFINDING SIGNS (E.G. AT TRAFFIC CIRCLES).

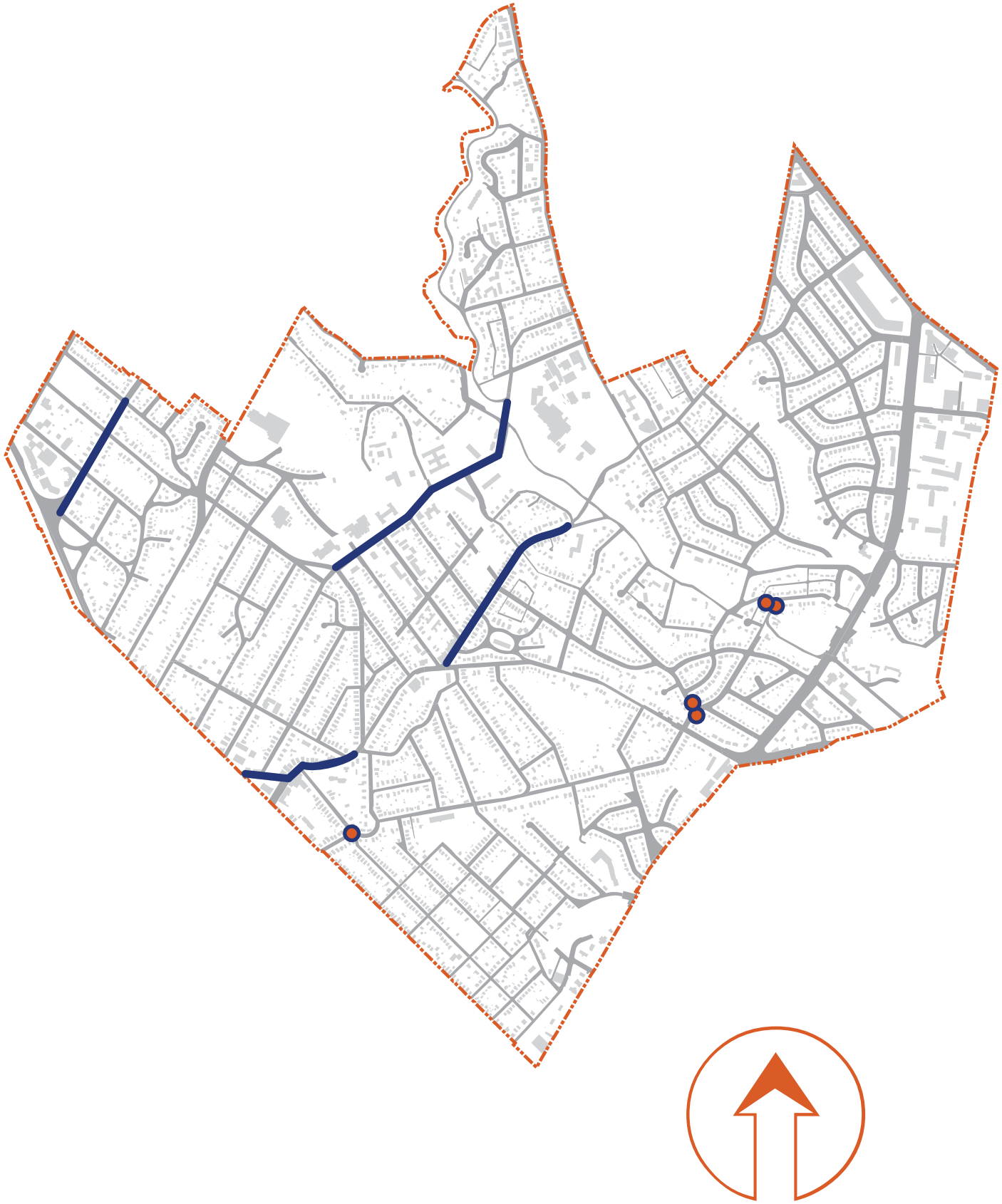
CHEVRON APEX SHOULD BE 4' MINIMUM FROM CURB. NEIGHBORHOOD STREETS ARE GENERALLY NARROW (TRAVEL LANES < 10' WIDE), THESE SHOULD NOT BE PLACED WHERE THEY CAN BE OBSCURED BY PARKED CARS. IDEAL LOCATIONS ARE ADJACENT A HYDRANT OR STORMWATER DRAIN WHERE PARKING IS PROHIBITED.

PHOTOS

SHARROW ON MAPLE AVENUE

MODIFIED SHARROW AT ELM AVENUE AND LINCOLN AVENUE TRAFFIC CIRCLE

PAVEMENT MARKINGS - SHARROWS

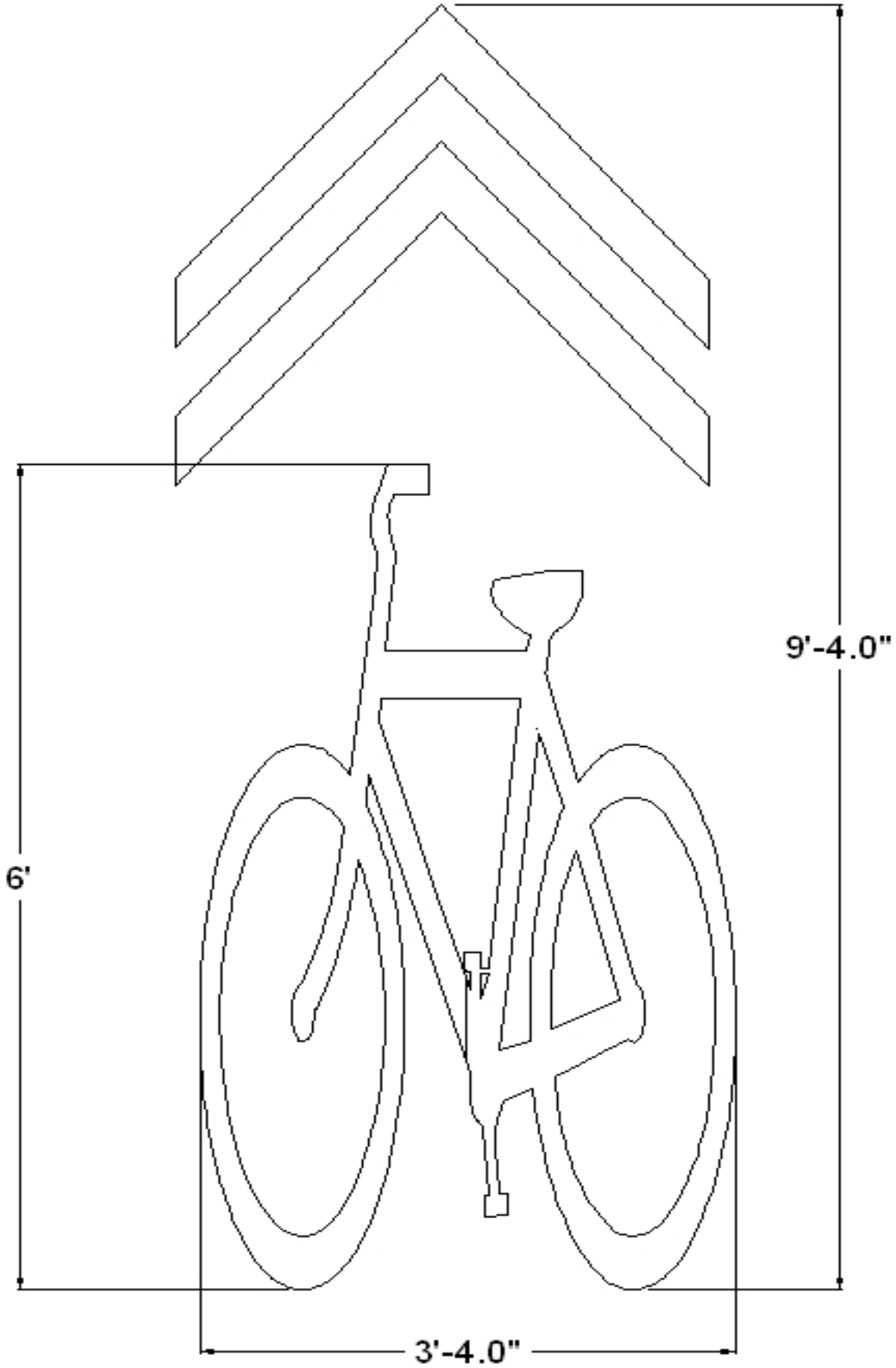


ROAD SEGMENTS WITH SHARROWS

MODIFIED SHARROWS

CITY BOUNDARY

0 0.25 0.50 1 MILES



112" x 40" BIKE SHARROW

Design Number PM600833-LEFT

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TRANSIT FACILITIES

PRODUCT — **ROTATING BUS INFORMATION TUBES**

VENDOR — **TRANSIT PRODUCTS, WEBB INC. (BOTH TUBES AND MAP INSERTS)**

INVENTORY — 41 TUBES

DIMENSIONS — DISPLAY AREA IS 24”W X 11“H. MAP INSERT IS 24-1/4” X 11“.

MATERIALS — DISPLAY WINDOWS ARE CLEAR PLASTIC. TOP AND BOTTOM CAPS ARE METAL. U-CHANNEL ADAPTERS ARE 12 GAGE STEEL.

INSERT IS HIGH RESOLUTION 600 X 600 DPI FULL COLOR OUTPUT USING UV-GRADE LIGHTFAST INK ON COATED BOND AND IS LAMINATED TO FINISH.

FINISHES & COLORS — TOP AND BOTTOM CAPS ARE FINISHED IN RAL 5010 POLYURETHANE POWDERCOAT FINISH.

PURCHASE & INSTALLATION — BE SURE TO CHECK FOR CURRENT AVAILABLE INVENTORY FROM 2014 REDESIGN BEFORE REORDERING MORE PARTS. THESE EXTRA PARTS ARE KEPT AT PUBLIC WORKS.

TUBE INSERTS ARE DESIGNED IN-HOUSE, THEN PRINTED BY VENDOR; WILL NEED TO PROVIDE ARTWORK TO VENDOR UPON REORDERING INSERTS.

POLE IS NOT INCLUDED; WILL NEED TO ACQUIRE POLE FOR ADDITIONAL TUBE INSTALLATIONS.

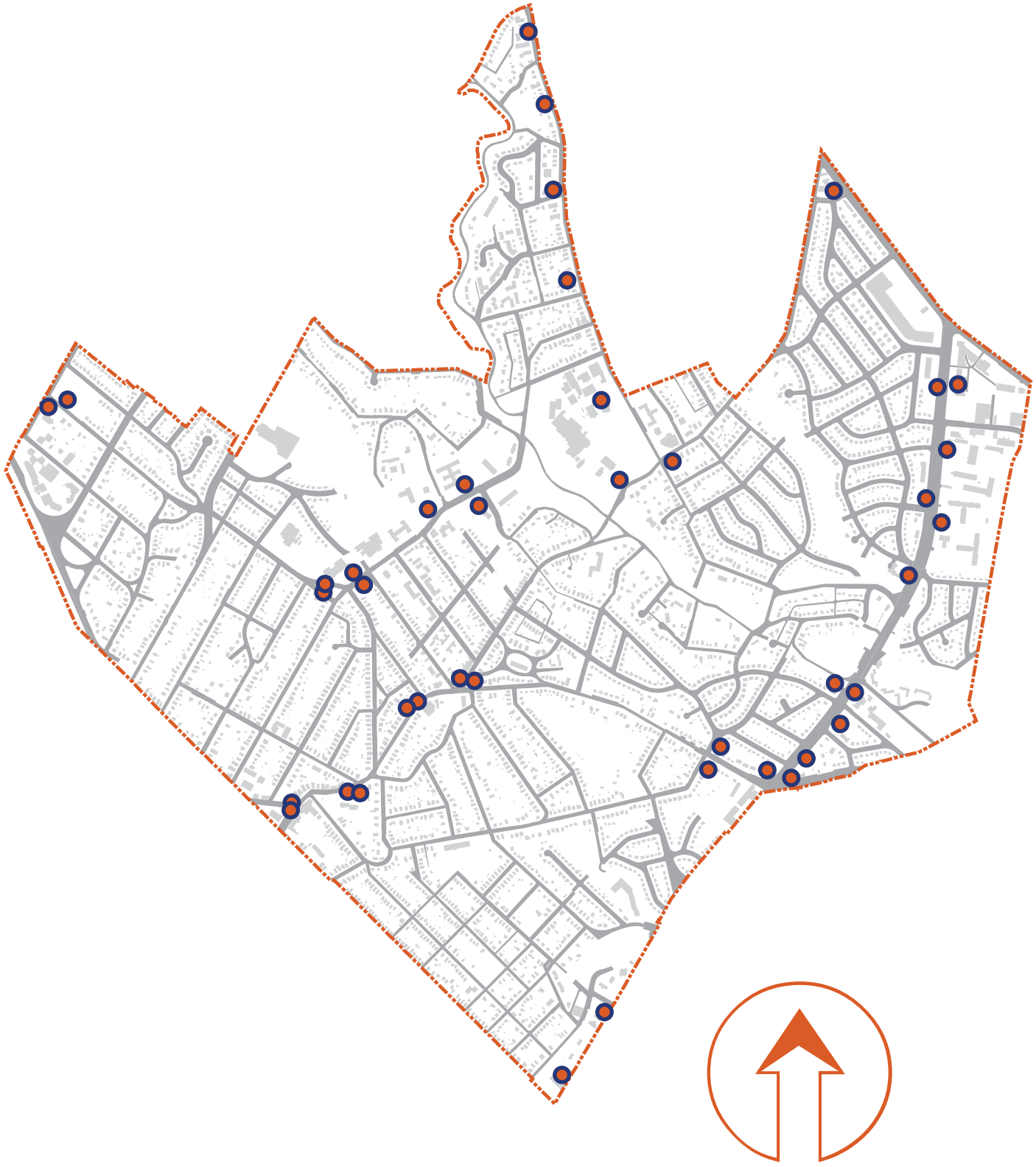
U-CHANNEL ADAPTER REQUIRED FOR INSTALLING TWO TUBES ON ONE POLE. DOUBLE-TUBE POLES AT THE INTERSECTIONS OF CARROLL AND LAUREL, CARROLL AND TULIP, AND CARROLL AND PHILADELPHIA.

PHOTOS

BUS INFORMATION TUBE ON PHILADELPHIA AVENUE (OUTSIDE LIBRARY).

DOUBLE-TUBE AT PHILADELPHIA AND CARROLL AVENUES. NOTE SPECIAL U-CHANNEL ADAPTER.

TRANSIT FACILITIES - ROTATING BUS INFORMATION TUBES



ROTATING TRANSIT INFORMATION TUBE LOCATIONS

CITY BOUNDARY

0 0.25 0.50 1 MILES

INSTALLATION

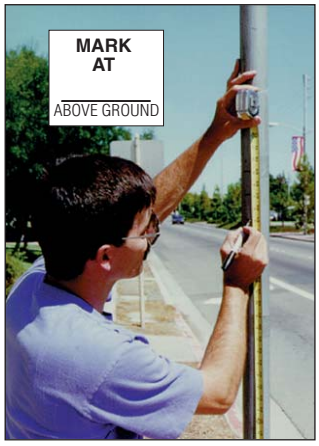
ROTATING TRANSIT TUBE

NOTICE: The 1/4-TURN Transit Tube must be installed correctly for proper operation and strength. Please follow all instructions carefully.

REQUIRED FOR INSTALLATION

PARTS
- 1 1/4-TURN TOP CAP
- 1 BOTTOM CAP
- 1 INNER BODY
- 1 CLEAR TUBE
- 2 MOUNTING U-BOLTS
- 4 WASHERS FOR U-BOLTS
- 4 NUTS FOR U-BOLTS
- 3 SECURITY SCREWS
- BRAILLE ROUTE NUMBERS (OPTIONAL)

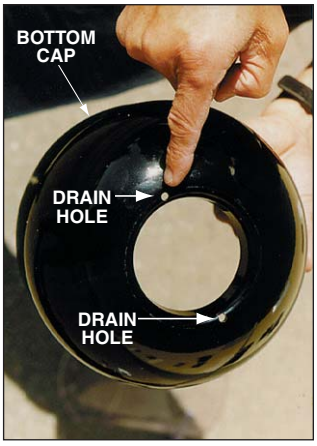
TOOLS NEEDED
- DEEP DRIVE 7/16" SOCKET FOR U-BOLTS
- 1 HAND CLAMP
- HAND DRIVER WITH SECURITY BIT
- ANY TOOLS REQUIRED TO REMOVE EXISTING SIGNS & HARDWARE FROM POLE



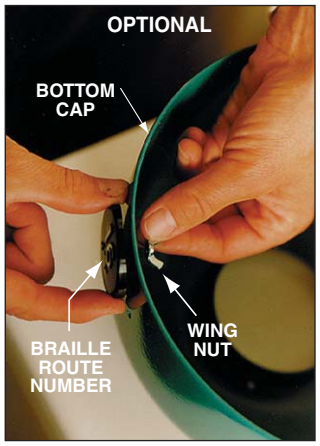
1 MEASURE AND **MARK POLE** FOR CORRECT MOUNTING HEIGHT. TUBE SHOULD BE LOW ENOUGH FOR WHEELCHAIR ACCESS

2 PLACE LADDER NEXT TO POLE ON A SECURE LEVEL SURFACE.

3 REMOVE ANY SIGNS OR HARDWARE FROM TOP OF POLE.



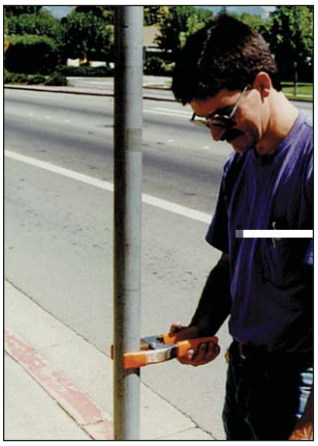
4 IDENTIFY **BOTTOM CAP** BY LOCATING 2 DRAIN HOLES AS SHOWN ABOVE.



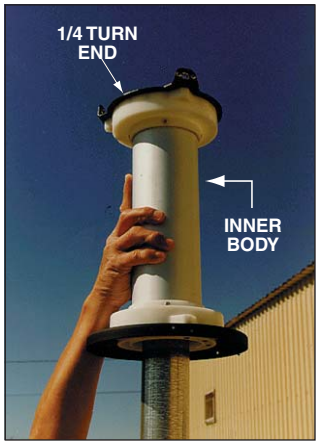
5 IF REQUIRED, ATTACH **BRAILLE ROUTE NUMBERS** TO BOTTOM CAPS USING SUPPLIED **8/32 WING NUTS**.

6 SLIDE **BOTTOM CAP** OVER TOP OF POLE.

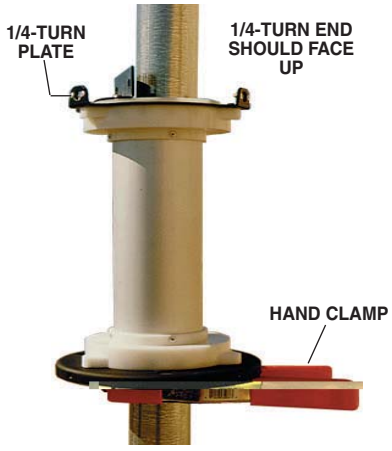
7 REST **BOTTOM CAP** ON GROUND



8 PLACE **HAND CLAMP** ON POLE TO ACT AS TEMPORARY REST FOR **INNER BODY**.



9 SLIDE **INNER BODY** OVER TOP OF POLE.



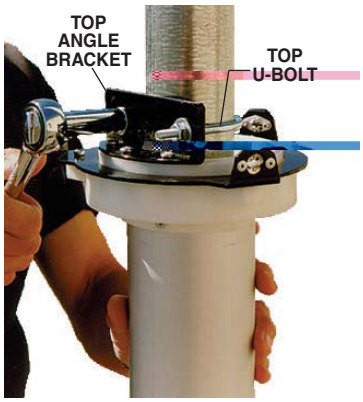
10 REST **INNER BODY** ON HAND CLAMP. MAKE SURE THAT **1/4-TURN END** IS **FACING UP**.

SEE OPPOSITE SIDE FOR REMAINING STEPS

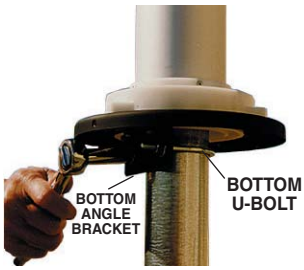
INSTALLATION

CONTINUED FROM OPPOSITE SIDE

USE A DEEP DRIVE 7/16" SOCKET TO TIGHTEN U-BOLTS



11 ALIGN **TOP U-BOLT** WITH MARK MADE IN STEP 1. TIGHTEN TOP U-BOLT EVENLY TO TOP **ANGLE BRACKET**



12 TIGHTEN **BOTTOM U-BOLT**. TO BOTTOM **ANGLE BRACKET**. MAKE SURE TO TIGHTEN U-BOLT EVENLY.

IMPORTANT

MAKE SURE THAT TRANSIT TUBE ROTATES SMOOTHLY BEFORE PROCEEDING.

IF TRANSIT TUBE DOES NOT ROTATE SMOOTHLY REALIGN MOUNTING U-BOLTS.

13 ATTACH BOTTOM CAP TO **CLOSURE PLATE** USING 3 **CAP SCREWS**.

IMPORTANT

INSTALL ALL 3 CAP SCREWS LOOSELY **BY HAND** BEFORE TIGHTENING WITH HAND DRIVER.

DO NOT USE POWER SCREWDRIVER OR FORCE SCREWS TO AVOID THREAD DAMAGE.

14 SLIDE **CLEAR TUBE** OVER POLE...

...AND REST INSIDE OF **BOTTOM CAP**.

15 INSTALL **GRAPHICS** INSIDE OF **CLEAR TUBE**

16 PLACE **TOP CAP** OVER TOP OF POLE. **TOP CAP** IS IDENTIFIED BY "**TURN**" PLACARDS.

17 LINE UP **1/4-TURN FASTENERS** IN THE CAP WITH **1/4-TURN PLATES** ON THE INNER BODY AND LOWER CAP.

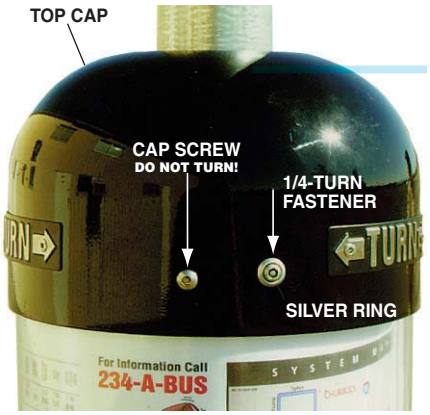
IMPORTANT

EACH **TOP CAP** HAS 3 **CAP SCREWS** AND THREE **1/4-TURN FASTENERS** (SHOWN AT RIGHT).

LOCATE THE THREE **1/4-TURN FASTENERS**. THEY EACH HAVE A **SILVER RING,** AS SHOWN.

USE ONLY THE **1/4-TURN FASTENERS** TO OPEN AND CLOSE THE **TOP CAP**.

DO NOT TURN THE CAP SCREWS TO OPEN THE TOP CAP



18 PRESS EACH **1/4-TURN FASTENER** IN (3 TOTAL), AND TURN CLOCKWISE UNTIL THEY SNAP INTO A LOCKED POSTITION.

CHANGING TRANSIT TUBE GRAPHICS

NEEDED
1 HAND CLAMP
HAND DRIVER WITH SECURITY BIT

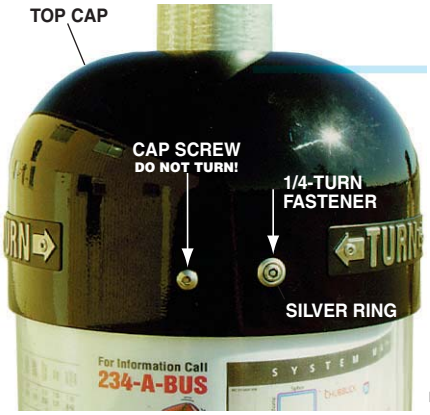
IMPORTANT

EACH **TOP CAP** HAS
3 **CAP SCREWS** AND
THREE **1/4-TURN FASTENERS**
(SHOWN AT RIGHT).

LOCATE THE THREE
1/4-TURN FASTENERS.
THEY EACH HAVE A
SILVER RING, AS SHOWN.

USE ONLY THE
1/4-TURN FASTENERS
TO OPEN AND CLOSE
THE **TOP CAP**.

DO NOT TURN THE CAP SCREWS TO OPEN THE TOP CAP

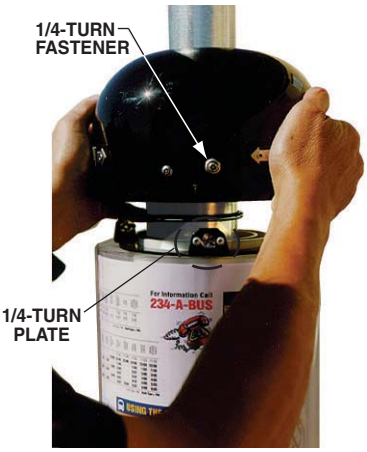


1 PRESS EACH **1/4-TURN FASTENER** IN (3 TOTAL), AND TURN COUNTER-CLOCKWISE UNTIL THEY OPEN.

2 USE THE **HAND CLAMP** TO HOLD THE **TOP CAP** UP.

3 EXCHANGE INFORMATION.

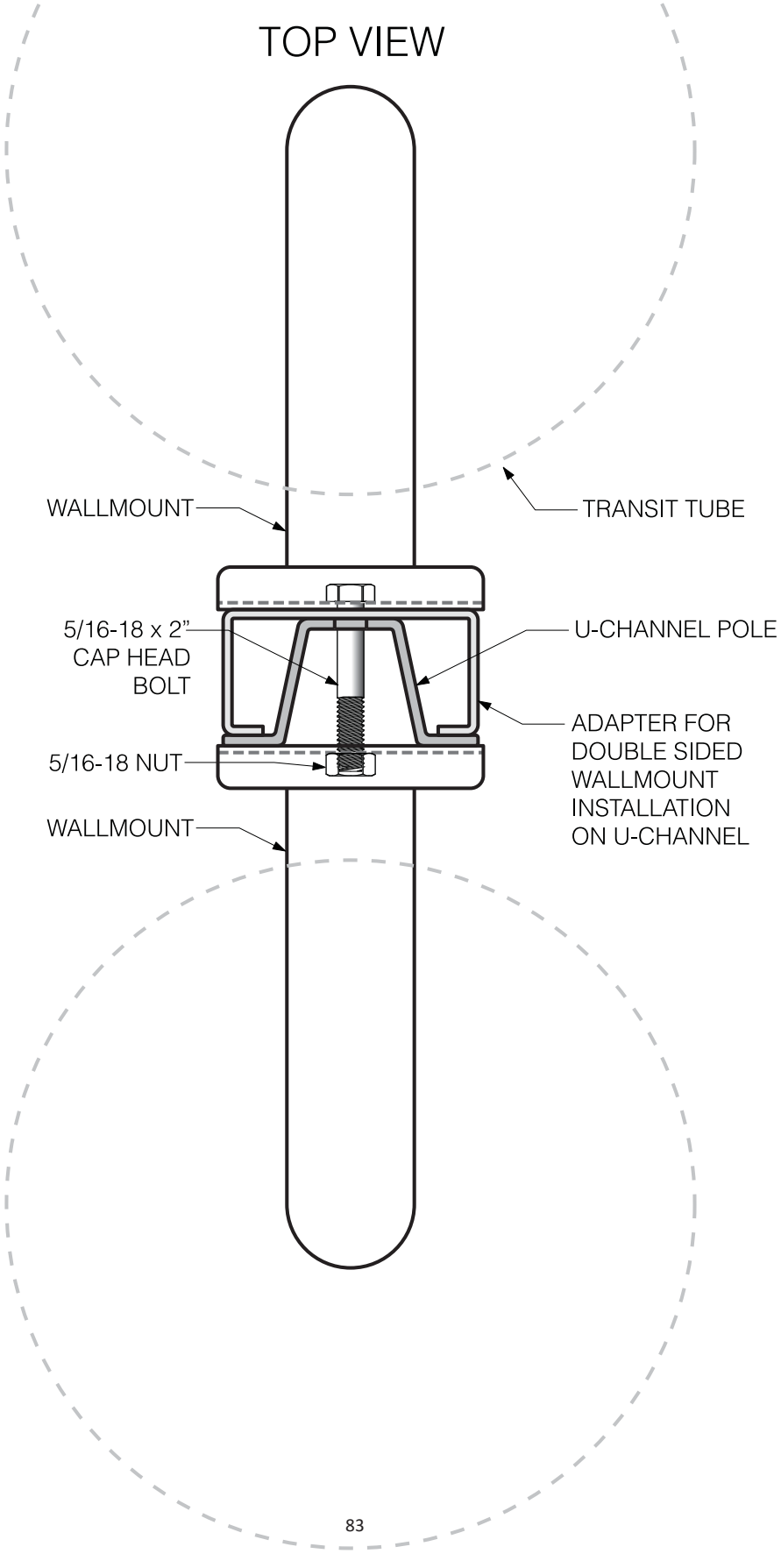
4 REMOVE **HAND CLAMP** AND LOWER **TOP CAP**.



5 LINE UP THE **1/4-TURN FASTENERS** IN THE CAP WITH **1/4-TURN PLATES** ON THE INNER BODY

6 LOWER CAP AND PRESS EACH **1/4-TURN FASTENER** IN (3 TOTAL), AND TURN CLOCKWISE UNTIL THEY SNAP INTO A LOCKED POSTITION.

INSTALLING TWO TRANSIT TUBES ON ONE U-CHANNEL POLE



TRANSIT FACILITIES

PRODUCT

BUS SHELTERS (ADVERTISING)

VENDOR

SIGNAL OUTDOOR (CONTRACT FOR INSTALLATION, MAINTENANCE, AND ADVERTISING); TOLAR MANUFACTURING (SHELTER MANUFACTURER)

INVENTORY

22 SHELTERS

DIMENSIONS

13' SHELTER: 12' 7-7/8"L X 4'8"W X 8' 2-3/4"H
9' SHELTER: 8' 7-3/8"L X 4'8"W X 8' 2-3/4"H

MATERIALS

SHELTER FRAMES, ROOF BOWS, GUTTERS, BENCHES, AND MESH SIDES/BACKS (NEW SHELTERS) MADE OF STEEL. ADVERTISEMENT ENCASEMENT, ROOFS, AND BACKS (OLD SHELTERS) MADE OF GLASS.

FINISHES & COLORS

SHELTERS ARE ALL FINISHED IN BLACK POWDERCOAT PAINT.

PURCHASE & INSTALLATION

ADEQUATE SIDEWALK OR CONCRETE PAD REQUIRED PRIOR TO SHELTER INSTALLATION. BENCH OR OTHER SEATING IN SHELTER SHOULD BE INSTALLED TO ALLOW FOR 48"L X 30"W WHEELCHAIR AREA PER ADA REQUIREMENTS.

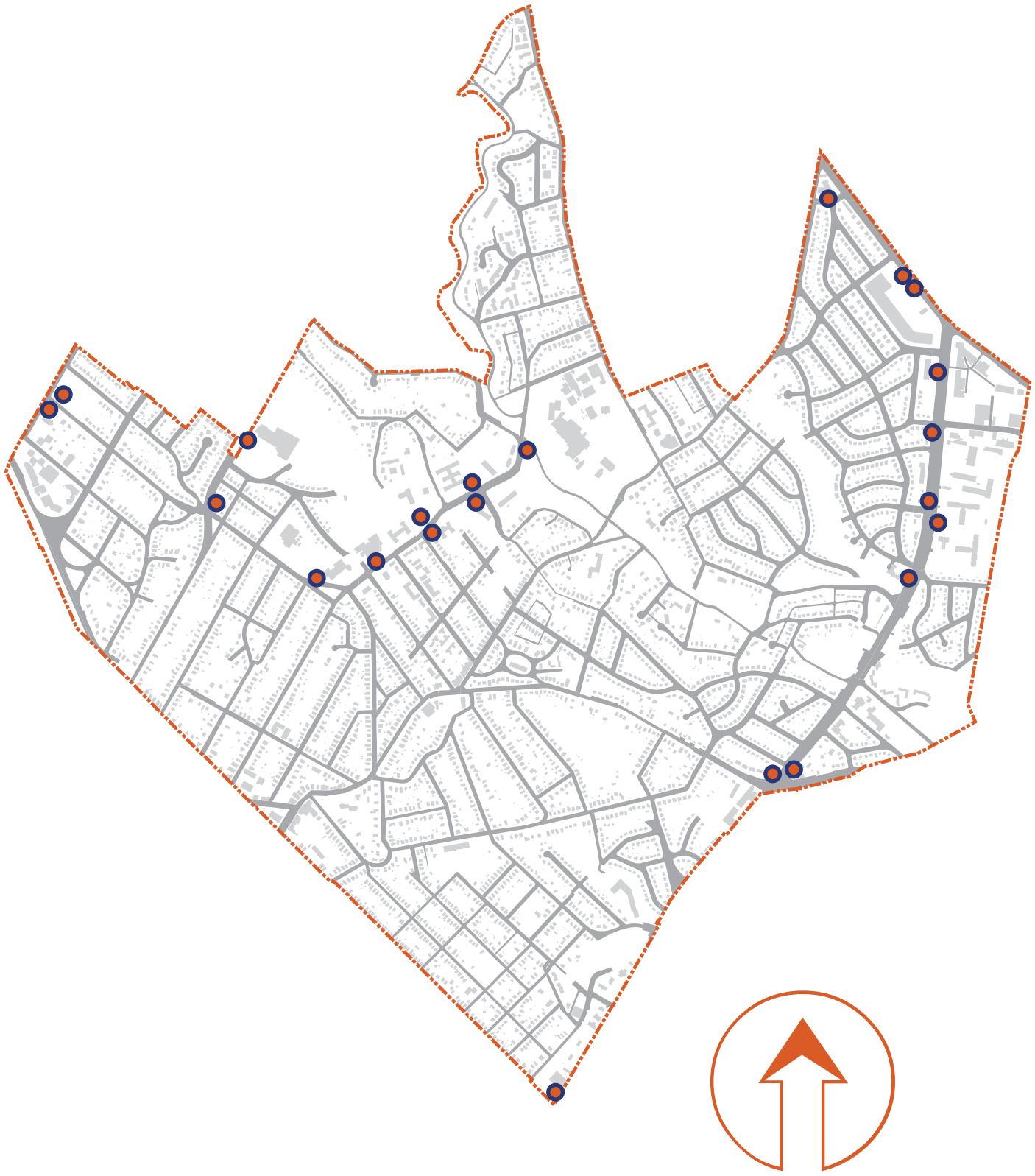
ADVERTISING SHELTERS ARE INSTALLED AND MAINTAINED PER THE CITY'S 2015 CONTRACT WITH SIGNAL OUTDOOR ADVERTISING. OTHER SHELTER DESIGNS WITHOUT ADVERTISING MAY BE APPROPERTIATE, DEPENDING UPON LOCATION (E.G. HISTORIC DISTRICT, LIMITED SPACE, ETC.)

PHOTOS

BUS SHELTER WITH SOUTH BEACH DINING CHAIRS ON NORTHBOUND NEW HAMPSHIRE AVENUE AT MERWOOD DRIVE.

BUS SHELTER ON SOUTHBOUND NEW HAMPSHIRE AVENUE AT MERWOOD DRIVE.

TRANSIT FACILITIES - BUS SHELTERS WITH ADVERTISING



BUS SHELTERS

CITY BOUNDARY

0 0.25 0.50 1 MILES

BICYCLE PARKING

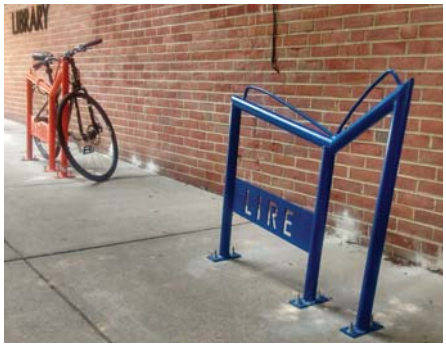
PRODUCT	**HOOP RACK**
VENDOR	**DERO**
INVENTORY	36 HOOP RACKS
CAPACITY	TWO (2) BIKES
MATERIALS	1.5” SCHEDULE 40 PIPE (1.9” OD). 99% RECYCLED CONTENT, HARVESTED DOMESTICALLY.
FINISHES & COLORS	HOOP RACKS IN THE STREETSCAPE ARE ALL STANDARD BLACK POWDER COAT FINISH. ALTERNATIVE AND CUSTOM DESIGNS ARE ENCOURAGED TO SUIT THE CONTEXT (E.G. “POLYGLOT” BOOK RACKS AT THE TAKOMA PARK MARYLAND LIBRARY IN POWDER COAT FINISHES THAT LOOSELY MATCH CITY LOGO COLORS, CITY LOGO HOOP RACK AT THE COMMUNITY CENTER).
PURCHASE & INSTALLATION	IMPORTANT TO KNOW WHICH INSTALLATION METHOD WILL BE USED PRIOR TO ORDERING. TWO OPTIONS INCLUDE IN-GROUND MOUNT WHICH IS IMBEDDED INTO A CONCRETE BASE, OR SURFACE MOUNT WHICH USES TWO ANCHORS PER FOOT INTO EXISTING CONCRETE SLAB. INSTALLATION IN FLEXI-PAVE PERMEABLE ASHPALT (E.G. COMMUNITY CENTER) REQUIRES IN GROUND MOUNT INSTALLED FIRST, THEN BRICK OR ASPHALT SURFACE APPLIED SECOND. INSTALLATION ON RAILS (REC CENTER ON NEW HAMPSHIRE AVE) REQUIRES SURFACE MOUNT. INSTALLATION INTO BRICK STREETSCAPE (CARROLL AVENUE) MAY BE EITHER MOUNT. SEE SPECS FOR SETBACKS FROM CURBS, TREES, WALLS, AND OTHER FURNISHINGS.
CUSTOM PROJECTS	HOOP RACKS LOCATED IN OLD TOWN ON CARROLL AND LAUREL AVENUES ARE CUSTOM-BUILT AND HAVE A NARROW BASE WIDTH COMPARED TO THE STANDARD.

PHOTOS

STANDARD BLACK HOOP RACKS ON KIRKLYNN AVENUE (IN GROUND MOUNT).

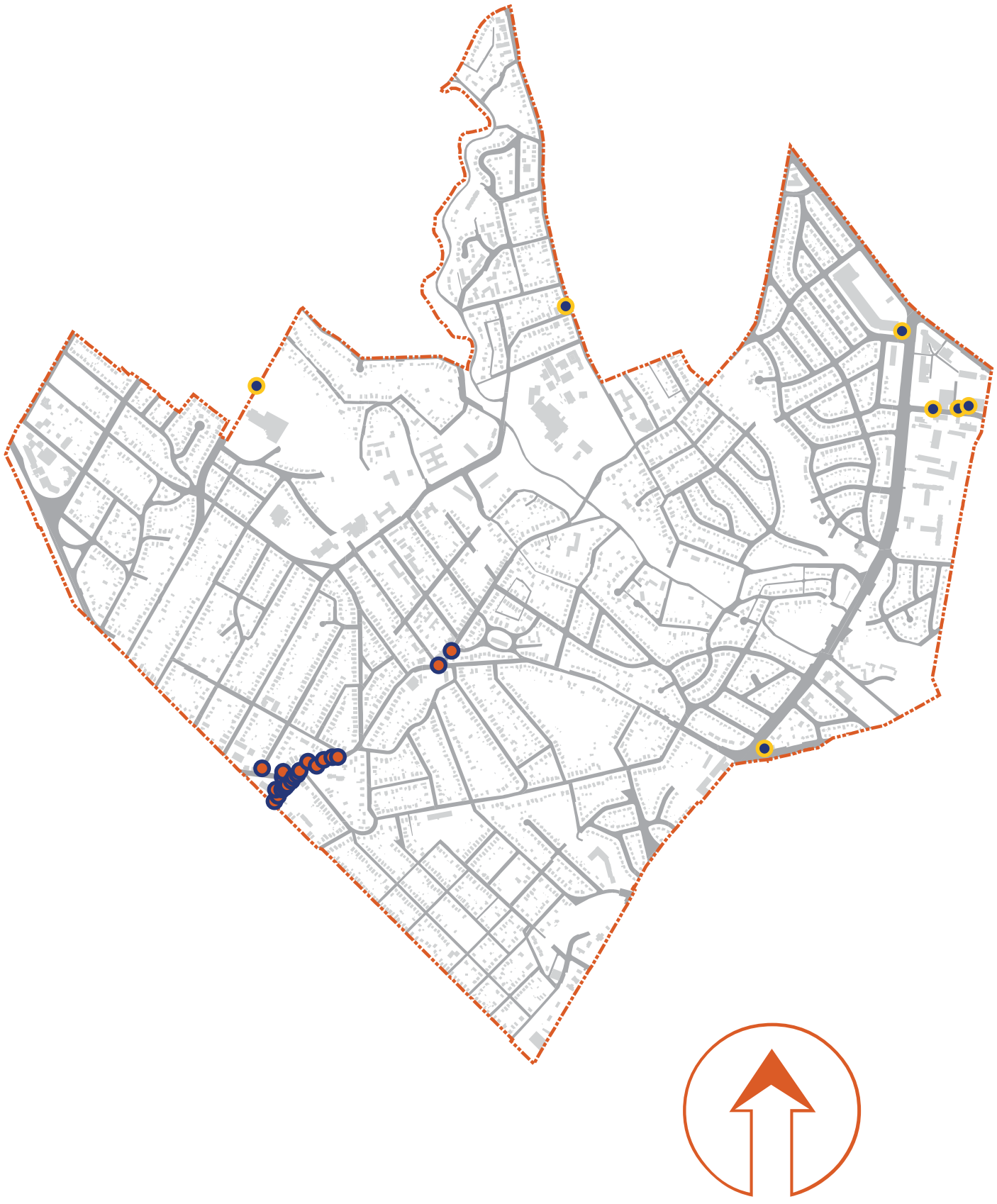
CUSTOM CITY LOGO HOOP RACK AT COMMUNITY CENTER ON FLEXIPAVE (IN GROUND MOUNT).

NARROW BASE HOOP RACK INSTALLED TOO CLOSE TO BENCH AND U-CHANNEL IN BRICK ON CARROLL AVENUE (SURFACE MOUNT ON CONCRETE BASE).



CUSTOM “POLYGLOT” BOOK RACKS IN BLUE AND ORANGE OUTSIDE LIBRARY AT COMMUNITY CENTER (SURFACE MOUNT).

BICYCLE PARKING - DERO HOOP RACK



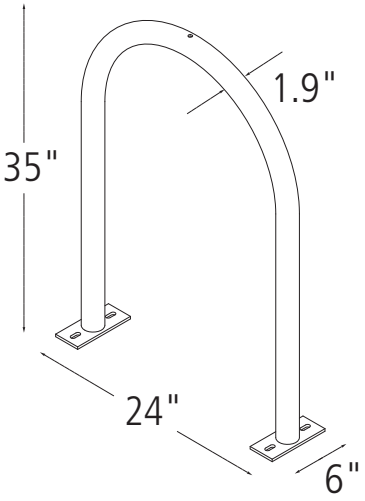
STANDARD HOOP RACK

CUSTOM NARROW HOOP RACK

CITY BOUNDARY

0 0.25 0.50 1 MILES

Specifications and Space Use



Product Dero Hoop Rack
As manufactured by Dero Bike Racks

Capacity 2 Bikes

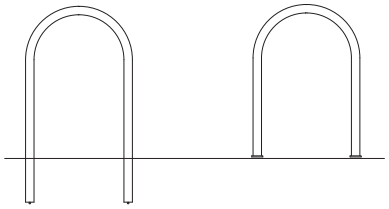
Materials 1.5" schedule 40 pipe (1.9" OD)

Finishes

An after fabrication hot dipped galvanized finish is our standard option. 250 TGIC powder coat colors, thermoplastic coating, PVC dip, and stainless steel finishes are also available as alternate options.

Our powder coat finish assures a high level of adhesion and durability by following these steps:
1. Sandblast
2. Epoxy primer electrostatically applied
3. Final thick TGIC polyester powder coat

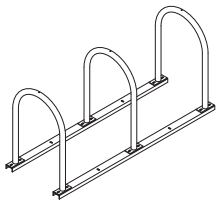
Stainless Steel: 304 grade stainless steel material finished in either a high polished shine or a satin finish.



In ground *Surface*

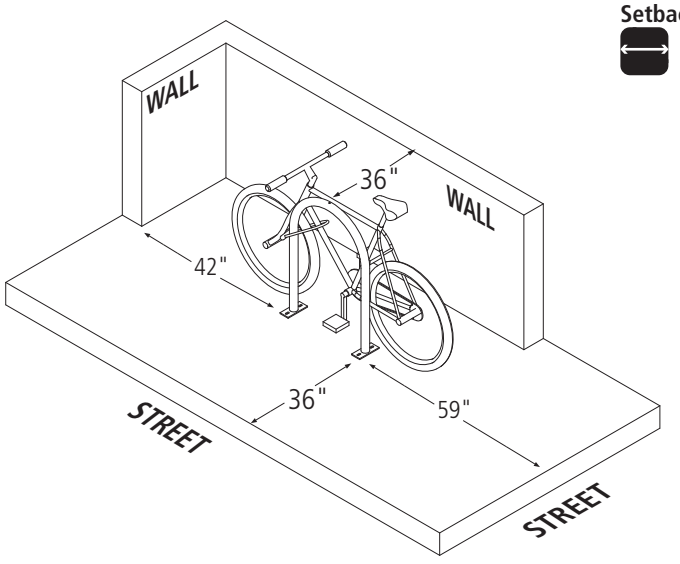
Installation Methods

In ground mount is embedded into concrete base. Specify in ground mount for this option.
Foot Mount has two 2.5"x6"x.25" feet with two anchors per foot. Specify foot mount for this option.
Rail Mounted Hoops are bolted to two parallel rails which can be left freestanding or anchored to the ground. Rails are heavy duty 3"x1.4"x3/16" thick galvanized mounting rails. Specify rail mount for this option.



Rail (freestanding)

Space Use and Setbacks



Wall Setbacks:
For racks set parallel to a wall:
Minimum: 24"
Recommended: 36"

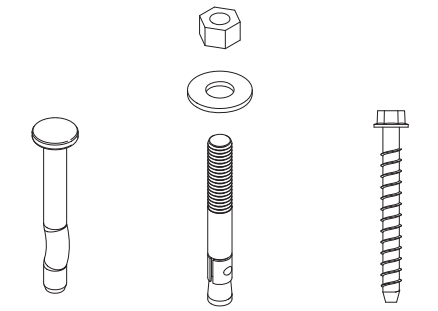
For racks set perpendicular to a wall:
Minimum" 28"
Recommended: 42"

Distance Between Racks:
Minimum: 24"
Recommended: 36"

Street Setbacks:
Minimum: 24"
Recommended: 36"

Tools Needed for Installation

Tape Measure
Marker or Pencil
Masonry Drill Bit
Drill (Hammer drill recommended)
Hammer
Wrench 9/16"
Level



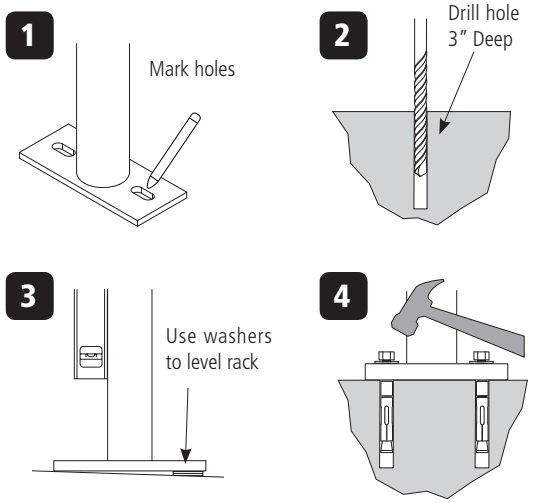
Standard Anchor Types

Recommended Base Materials:

Solid concrete is the best base material for installation. To ensure the proper anchors are shipped with your rack, ask your Dero Rack representative which anchor is appropriate for your application. Be sure nothing is underneath the base material that could be damaged by drilling.

Installation:

3/8" anchors are shipped with the rack. Place the rack in the desired location. Use a marker or pencil to outline the holes of the flange onto the base material. Drill the holes in accordance with the specifications shipped with the anchors. Make sure the holes are at least 3" away from any cracks in the base material. Use washers to level rack if necessary. Tap in anchors and follow your specific anchor instructions provided with the rack.



(Anchors will vary according to install surface)

Tamper Resistant Fasteners

The concrete spike is a permanent anchor. The top of the wedge anchor can also be pounded sideways after installation so that it cannot be removed. Other tamper resistant fasteners are also available for purchase.

When using the special tamper resistant nuts, always set and first tighten the anchors. Once the rack is installed, replace two nuts from the bracket (opposite sides from each other) with the tamper resistant fastener. DO NOT OVERTIGHTEN the tamper resistant nut.

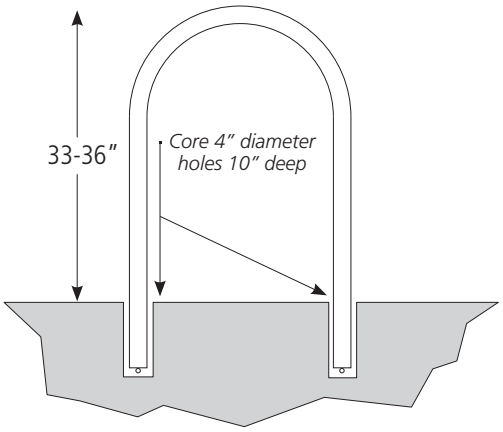
Breakaway Nut *Stainless Tamper-Proof Nut* *Triple-slot Nut*

Concrete Spike

If you have any questions about installation or other features of the Hoop Rack, please call us toll free at 1-800-298-4915

Tools Needed for Installation

Level
Cement mixing tub
Shovel
Trowel
Hole coring machine with 4" bit
Access to water hose
Materials to build brace (see "Install Tip" at bottom of page)

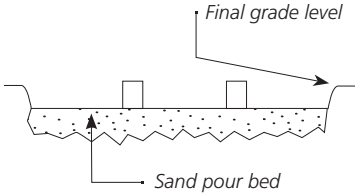


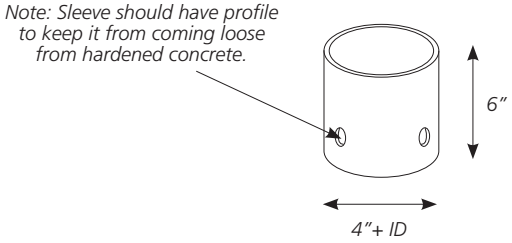
Installing into Existing Sidewalk

Core holes no less than 3" diameter (4" recommended) and 10" deep into sidewalk. Fill holes with Por-Rok or epoxy grout. Place Hoop Rack into holes, making sure the rack is level. 33"-36" of the Hoop Rack should remain above the surface. If the Hoop Rack is less than 33" high, it will not support the bike adequately. Make sure the rack is level and held in place until the grout has set.

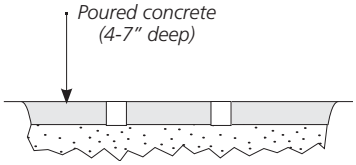
Installing Into a New Sidewalk:

Sleeve Method:



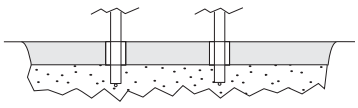


1 Place corrosion resistant sleeve (min. 4" inside diameter) in sand pour bed in exact location where rack will be installed. Make sure top of sleeve is at same level as desired finished concrete surface. Fill sleeve with sand to keep it in place and prevent it from filling with concrete.



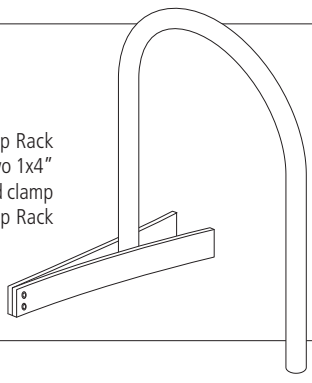
2 Pour concrete and allow to cure.

3 After appropriate cure time, dig out sand from sleeves and insert racks, making sure they are level and at the appropriate height. Pour in Por-Rok or epoxy grout and allow to set.



INSTALL TIP

An easy way to brace the Hoop Rack while the grout sets is to bolt two 1x4" boards together at one end and clamp them onto the legs of the Hoop Rack like a clothes pin.



Takoma Park Streetscape Manual

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PLANTERS

PRODUCT **ASSORTED PLANTERS**

VENDOR **MULTIPLE**

INVENTORY A VARIABLE NUMBER OF PLANTERS EXIST IN THE PUBLIC ROW ON CARROLL AND LAUREL AVENUES, MAINTAINED BY ADJACENT BUSINESS AND PROPERTY OWNERS, AS WELL AS ON NEW HAMPSHIRE AVENUE AND UNIVERSITY BOULEVARD, AND HOLTON LANE, MAINTAINED BY THE TAKOMA/LANGLEY CROSSROADS CDA.

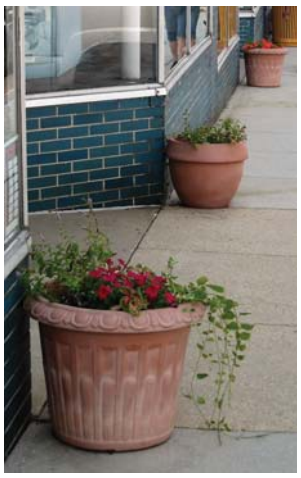
DIMENSIONS VARIOUS DIMENSIONS.

MATERIALS VARIES - OFTEN CONCRETE, CERAMIC, OR STEEL. PLANTERS ENCOURAGED TO BE HEAVY TO AVOID THEFT OR UNWANTED RELOCATION.

PURCHASE & INSTALLATION THE CITY DOES NOT PURCHASE OR MAINTAIN PLANTERS IN THE PUBLIC RIGHT OF WAY.

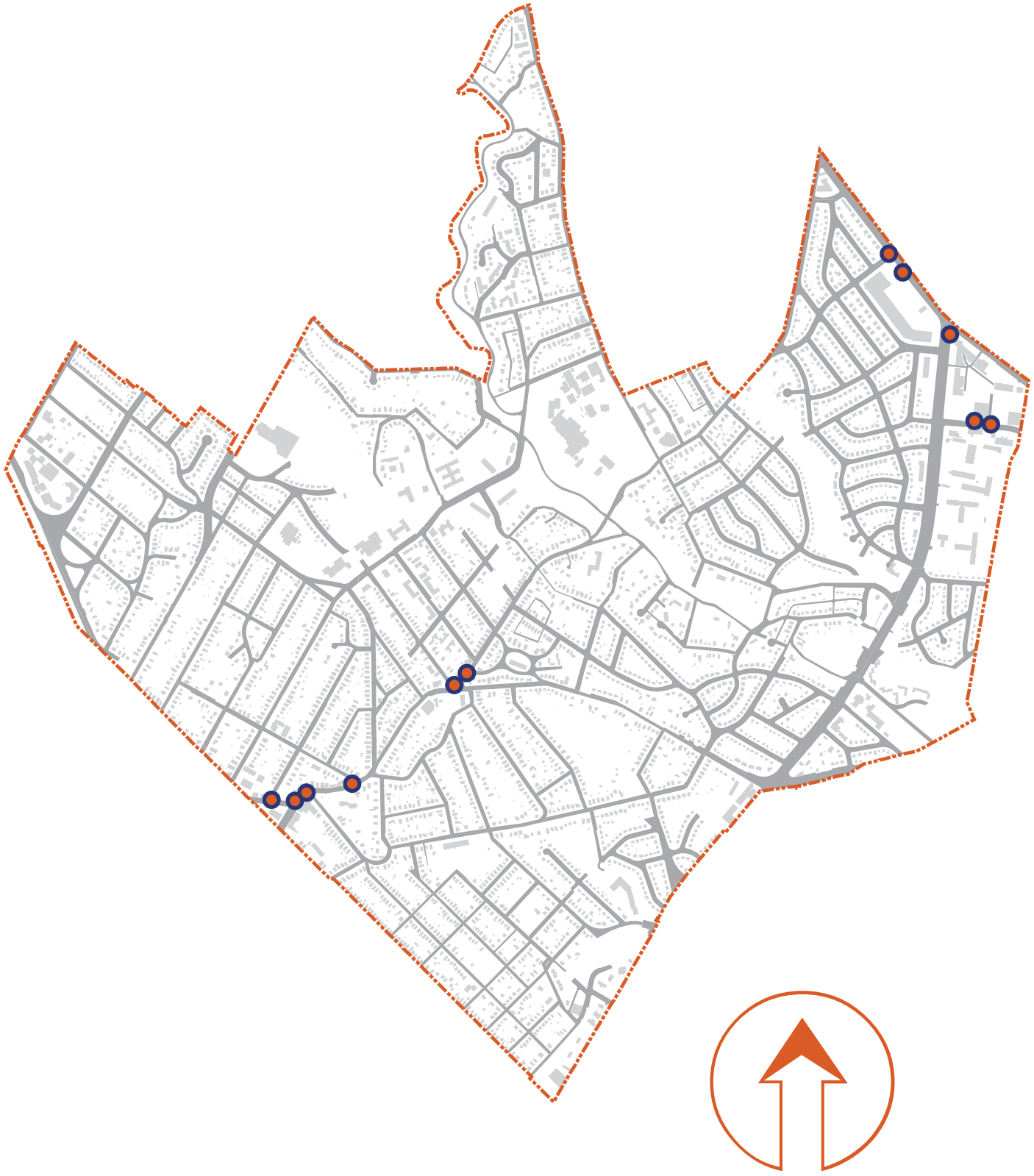
PLACEMENT OF PLANTERS SHOULD MAINTAIN A MINIMUM 5' PEDESTRIAN CLEARANCE ALONG THE SIDEWALK.

PHOTOS



PLANTERS ARE A PLEASANT ADDITION TO COMMERCIAL STREETSCAPES, MAINTAINED BY BUSINESSES AND BUSINESS ASSOCIATIONS

PLANTERS - ASSORTED



ASSORTED PLANTERS

CITY BOUNDARY

0 0.25 0.50 1 MILES

RECEPTACLES

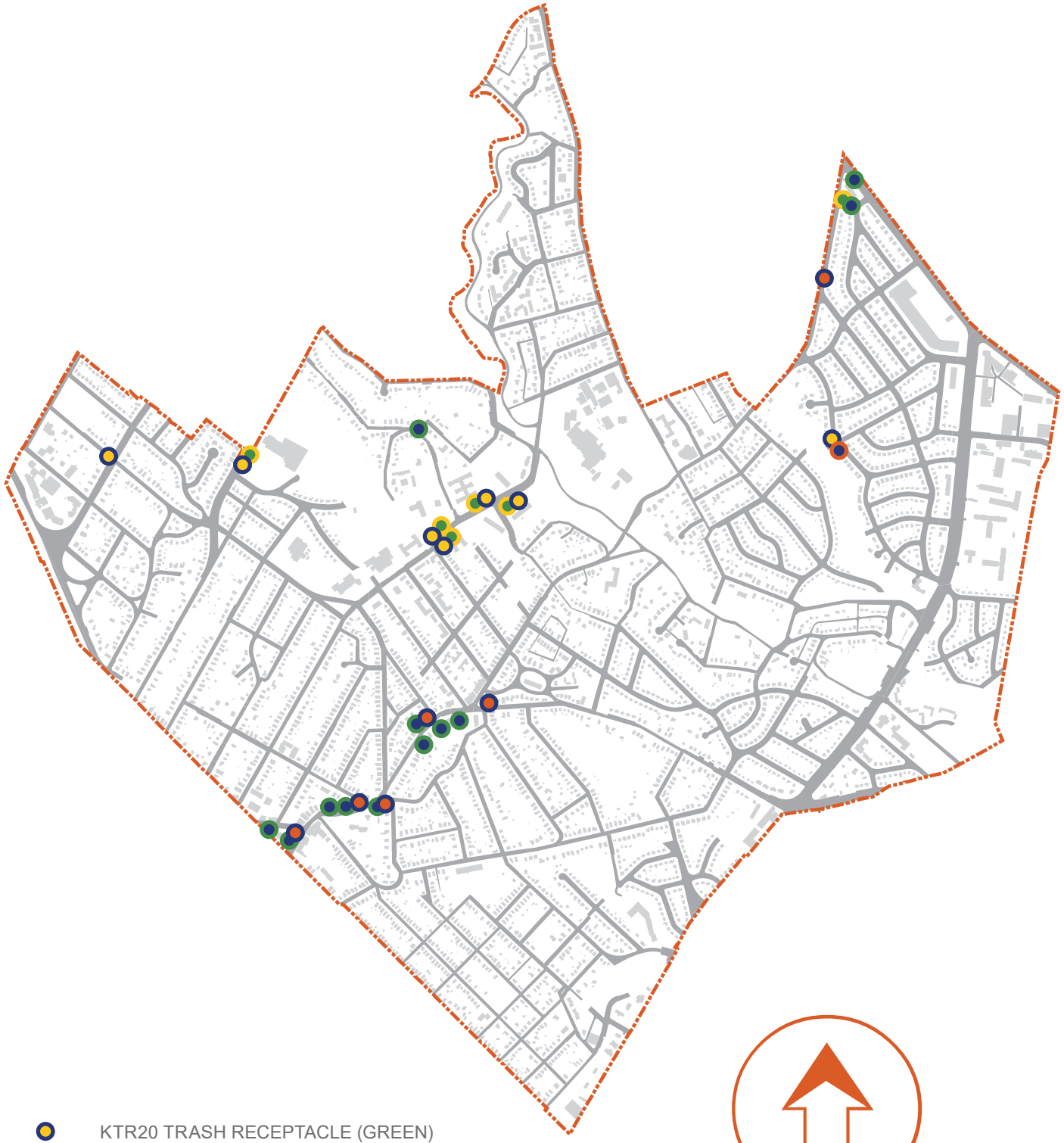
PRODUCT	**WELLINGTON (KT420)**
VENDOR	**KING LUMINAIRE**
INVENTORY	36 RECEPTACLES FOR TRASH AND RECYCLING: - 9 GREEN (TRASH) CITY-WIDE - 8 GREEN (RECYCLING) CITY-WIDE - 1 BROWN (TRASH) ON GLENSIDE DRIVE - 12 BLACK (TRASH) CITY-WIDE - 6 BLACK (RECYCLING) CITY-WIDE
DIMENSIONS	35-7/8”H X 30”D (32 GAL) AND 39-1/2“H X 34”D (44 GAL)
MATERIALS	RECEPTACLES ARE 1/4” MILL STEEL. LIDS ARE CAST ALUMINUM.
FINISHES & COLORS	RECEPTACLES ARE FINISHED IN GREEN, BROWN, AND BLACK POWDER COAT PAINT.
PURCHASE & INSTALLATION	PRODUCT COMES PRE-ASSEMBLED. RECEPTACLES ARE EQUIPPED WITH ANCHOR BOLT MOUNTING TABS

PHOTOS

GREEN TRASH RECEPTACLE NEAR COMMUNITY CENTER.

GREEN RECYCLING RECEPTACLE WITH SPECIALTY LID.

RECEPTACLES - KING LUMINAIRE WELLINGTON



KTR20 TRASH RECEPTACLE (GREEN)
KTR20 RECYCLE RECEPTACLE (GREEN)
KTR20 TRASH RECEPTACLE (BROWN)
KTR20 TRASH RECEPTACLE (BLACK)
KTR20 RECYCLE RECEPTACLE (BLACK)
CITY BOUNDARY

0 0.25 0.50 1 MILES

SITE AMENITIES

FROM KING LUMINAIRE

THE WELLINGTON TRASH RECEPTACLE - KTR20

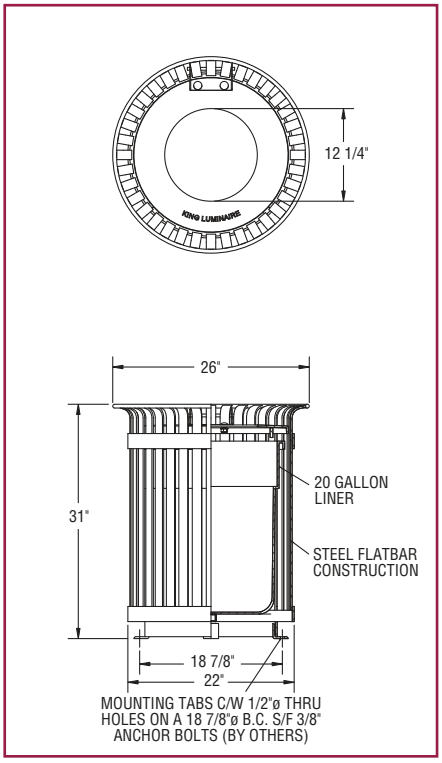
At King Luminaire, we know that the quality of workmanship is just as important as the design itself. Inspired by the goal to complement our lighting products, King Luminaire is proud to introduce the KTR20 Trash Receptacle.

The KTR20 is constructed of rugged 1/4" mill steel in the ever popular vertical strap design. After being Electro-coated with rust inhibiting epoxy technology, it is finished with King's durable "KingCoat" powder coat paint finish. It is available in a 20, 32 and 44 gallon capacity and comes with its own rigid plastic liner which is held securely in the container by a hinged, cast aluminum lid. An optional protective steel canopy is also available.

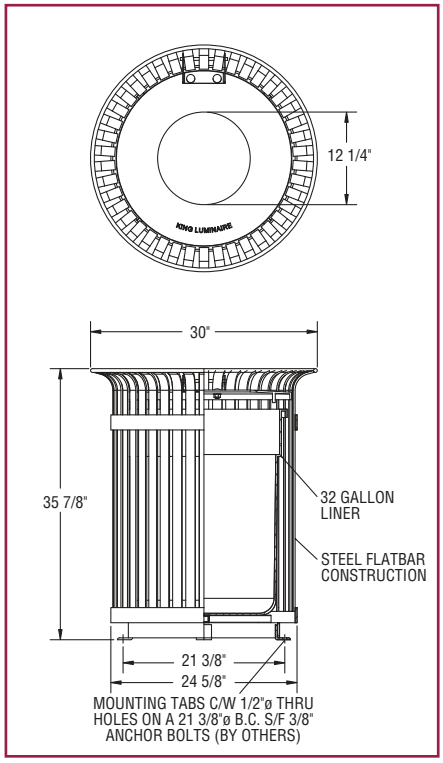
Equipped with anchor bolt mounting tabs to deter theft or vandalism, this container has been designed to stand the test of time. Finished in any of the dazzling array of KingCoat colors, the KTR20 will add style to any project.

Standard, premium and custom paint colors available, please contact us for details.

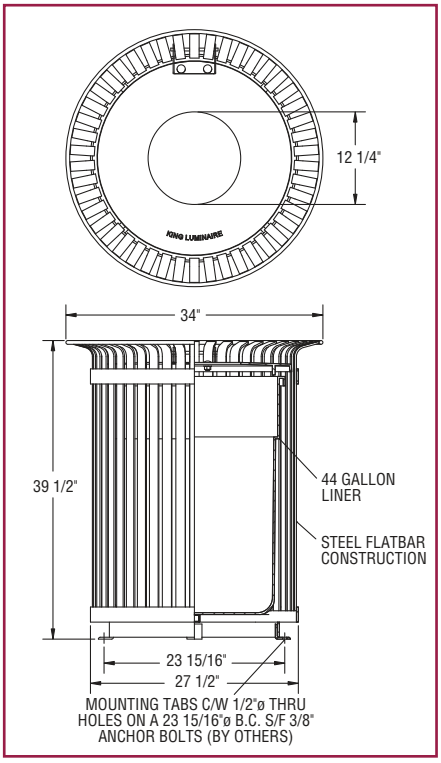
THE WELLINGTON TRASH RECEPTACLE - KTR20



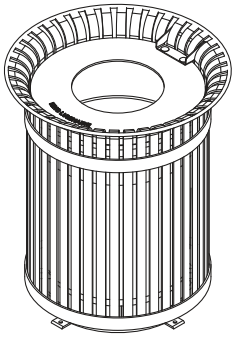
KTR20 - (20 gal.)

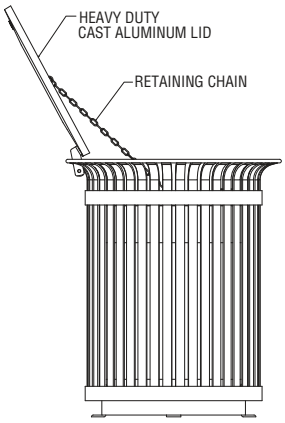


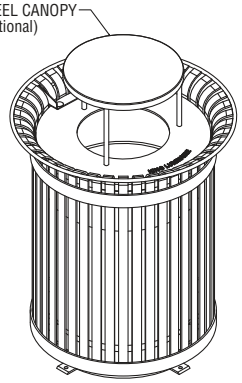
KTR20 - (32 gal.)



KTR20 - (44 gal.)







How to Catalog

KING DECORATIVE TRASH RECEPTACLE

CONTAINER SIZE
20 Gallon
32 Gallon
44 Gallon

PAINT COLOR
GN – Federal Green
BE – Blue
GY – Gray
BN – Brown
BK – Black
BZ – Bronze
(other colors available see color selector in catalog)

KTR | **20** | **32** | **LC** | **BK**

SERIES
20 – Wellington Trash Receptacle

LID STYLE
L – Lid
LC – Lid & Canopy

*please visit our website or see our catalog for other trash receptacle designs

King Luminaire • StressCrete • Est.1953

STRESSCRETE GROUP

Quality People • Quality Products

9200 Energy Lane
Northport, Alabama, USA 35476-3442
Tel: (205) 339-0711 Fax: (205) 339-4840
Toll Free 1-800-435-6563

1153 State Route 46N
Jefferson, Ohio, USA 44047
Toll Free 1-800-268-7809 Fax: (905) 632-8116

14503 Wallick Road
Atchison, Kansas 66002
Tel: (913) 255-3112 Fax: (913) 255-3124
Toll Free 1-800-837-1024

840 Walkers Line, P.O. Box 7
Burlington, Ontario, Canada L7R 3X9
Tel: (905) 632-9301 Fax: (905) 632-8116
Toll Free 1-800-268-7809

www.StressCreteGroup.com
www.StressCrete.com • www.KingLuminaire.com

RECEPTACLES

PRODUCT **RB-24**

VENDOR **VICTOR STANLEY**

INVENTORY

53 RECEPTACLES, TYPICALLY USED FOR RECYCLING
- 23 GRANNY SMITH GREEN (PMS 382 U) ON NEW HAMPSHIRE AVENUE
- 6 FOREST GREEN IN OLD TOWN AND TAKOMA JUNCTION
- 2 BROWN
- 14 BLACK IN OLD TOWN, TAKOMA JUNCTION, AND AT THE COMMUNITY CENTER
- 8 BLUE ON FLOWER AVENUE

DIMENSIONS

30-1/2”H X 25“D

MATERIALS

3/8” X 1” VERTICAL SOLID STEEL BARS; 1/4” X 2-1/2” HORIZONTAL SOLID STEEL BANDS; 3/8” X 3” STEEL SUPPORT BARS, 5/8” SOLID STEEL TOP RING; LEVELING FEED WITH A 3/8” DIAMETER THREADED STEEL SHAFT; 24 GALLON CAPACITY HIGH DENSITY PLASTIC LINER. STEEL IS PURCHASED FROM AMERICAN ELECTRIC FURNACE MILLS, WITH AT LEAST 98% OF THE STEEL OBTAINED FROM RECYCLED SCRAP METAL. PLASTIC LINER IS PRIMARILY MADE OF RECYCLED PLASTIC RESIN.

FINISHES & COLORS

RECEPTACLES ARE FINISHED IN BLACK, GRANNY SMITH GREEN (PMS 382 U), FOREST GREEN, BLUE, AND BROWN.

AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

PURCHASE & INSTALLATION

PRODUCT COMES PRE-ASSEMBLED.

COLORS SHOULD BE REPLACED IN KIND AT INSTALLATION LOCATIONS IDENTIFIED ABOVE IN THE INVENTORY. BROWN SHOULD BE DISCONTINUED AND REPLACED ACCORDINGLY.

CUSTOM PRODUCTS

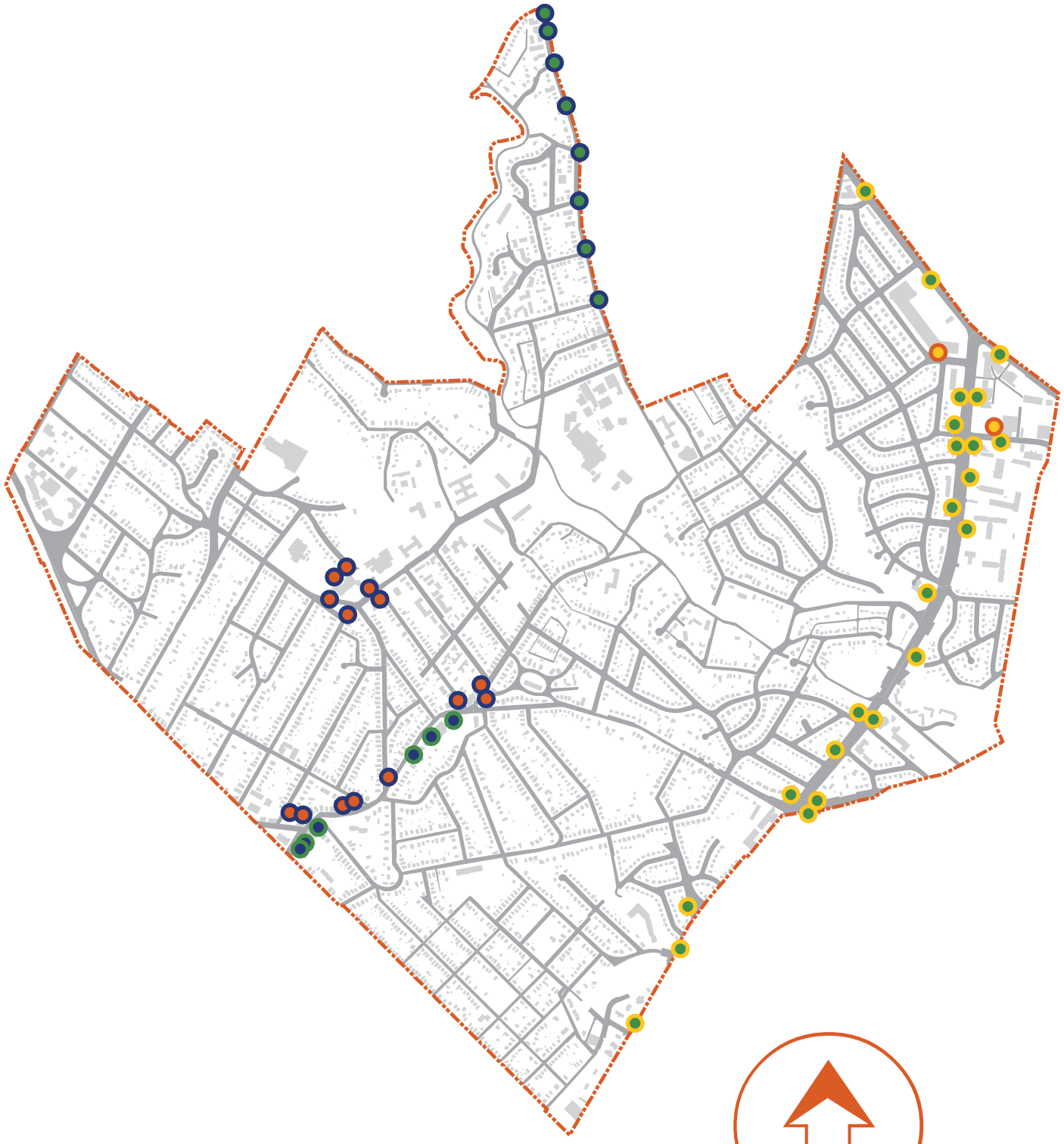
SPECIAL LID GRAPHIC DESIGNED TO INDICATE THAT RECEPTACLE IS FOR RECYCLING IN VARIOUS LANGUAGES.

PHOTOS

GRANNY SMITH GREEN (PMS 382 U) RB-24 RECYCLING RECEPTACLE NEXT TO A SUNSHINE YELLOW (PMS 128 U) RB-36 TRASH RECEPTACLE.

BLACK RB-24 RECEPTACLE WITH CUSTOM LID GRAPHIC.

RECEPTACLES - VICTOR STANLEY RB-24



RB-24 RECYCLE RECEPTACLE (GRANNY SMITH GREEN)
RB-24 RECYCLE RECEPTACLE (FOREST GREEN)
RB-24 RECYCLE RECEPTACLE (BROWN)
RB-24 RECYCLE RECEPTACLE (BLACK)
RB-24 RECYCLE RECEPTACLE (BLUE)
CITY BOUNDARY

0 0.25 0.50 1 MILES

VICTOR STANLEY, INC.®
-Manufacturers of Quality Site Furnishings since 1962-
Toll Free: (800) 368-2573

P.O. Drawer 330, Dunkirk, Maryland 20754 U.S.A.
Tel: (301) 855-8300 • Fax: (410) 257-7579
E-Mail: sales@victorstanley.com
www.victorstanley.com

Drawn By: ST
Rev: 08/04/2009
Layout ID: 2610-02b

Client Layout for VSI S-35 & RB-24 Lid Decal
Client: City of Takoma Park

Customer Approval

_____

Date:_____/_____/_____

Graphics Application:	The graphics will be digitally printed onto a pressure sensitive vinyl decal and applied to the lid.
Lid Size:	18 1/2"
Decal Size:	Approx. 18 1/4" Outside Diameter x 10 1/2" (Inside Diameter)
Decal Material Color:	Clear
Image Color:	VS White
Lid Color:	VS Blue

Approximate Size of text on decal

Specifications are subject to change at manufacturer's discretion to ensure proper fit and/or optimum output.

100

Takoma Park Streetscape Manual

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RECEPTACLES

PRODUCT **RB-36**

VENDOR **VICTOR STANLEY**

INVENTORY 54 RECEPTACLES, TYPICALLY USED FOR TRASH:
- 22 SUNSHINE YELLOW (PMS 128 U) ON NEW HAMPSHIRE AVENUE
- 2 BROWN
- 24 BLACK CITY-WIDE
- 6 FOREST GREEN ON CARROLL AVENUE IN OLD TOWN

DIMENSIONS 33-3/4”H X 28-1/8“D

MATERIALS 3/8” X 1” VERTICAL SOLID STEEL BARS; 1/4” X 2-1/2” HORIZONTAL SOLID STEEL BANDS; 3/8” X 3” STEEL SUPPORT BARS, 5/8” SOLID STEEL TOP RING; LEVELING FEED WITH A 3/8” DIAMETER THREADED STEEL SHAFT; 36 GALLON CAPACITY HIGH DENSITY PLASTIC LINER. STEEL IS PURCHASED FROM AMERICAN ELECTRIC FURNACE MILLS, WITH AT LEAST 98% OF THE STEEL OBTAINED FROM RECYCLED SCRAP METAL. PLASTIC LINER IS PRIMARILY MADE OF RECYCLED PLASTIC RESIN.

FINISHES & COLORS RECEPTACLES ARE FINISHED IN SUNSHINE YELLOW (PMS 128 U), FOREST GREEN, BROWN, AND BLACK POWDER COAT PAINT.

PURCHASE & INSTALLATION AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS. PRODUCT COMES PRE-ASSEMBLED.

COLORS SHOULD BE REPLACED IN KIND AT INSTALLATION LOCATIONS IDENTIFIED ABOVE IN THE INVENTORY. BROWN SHOULD BE DISCONTINUED AND REPLACED ACCORDINGLY.

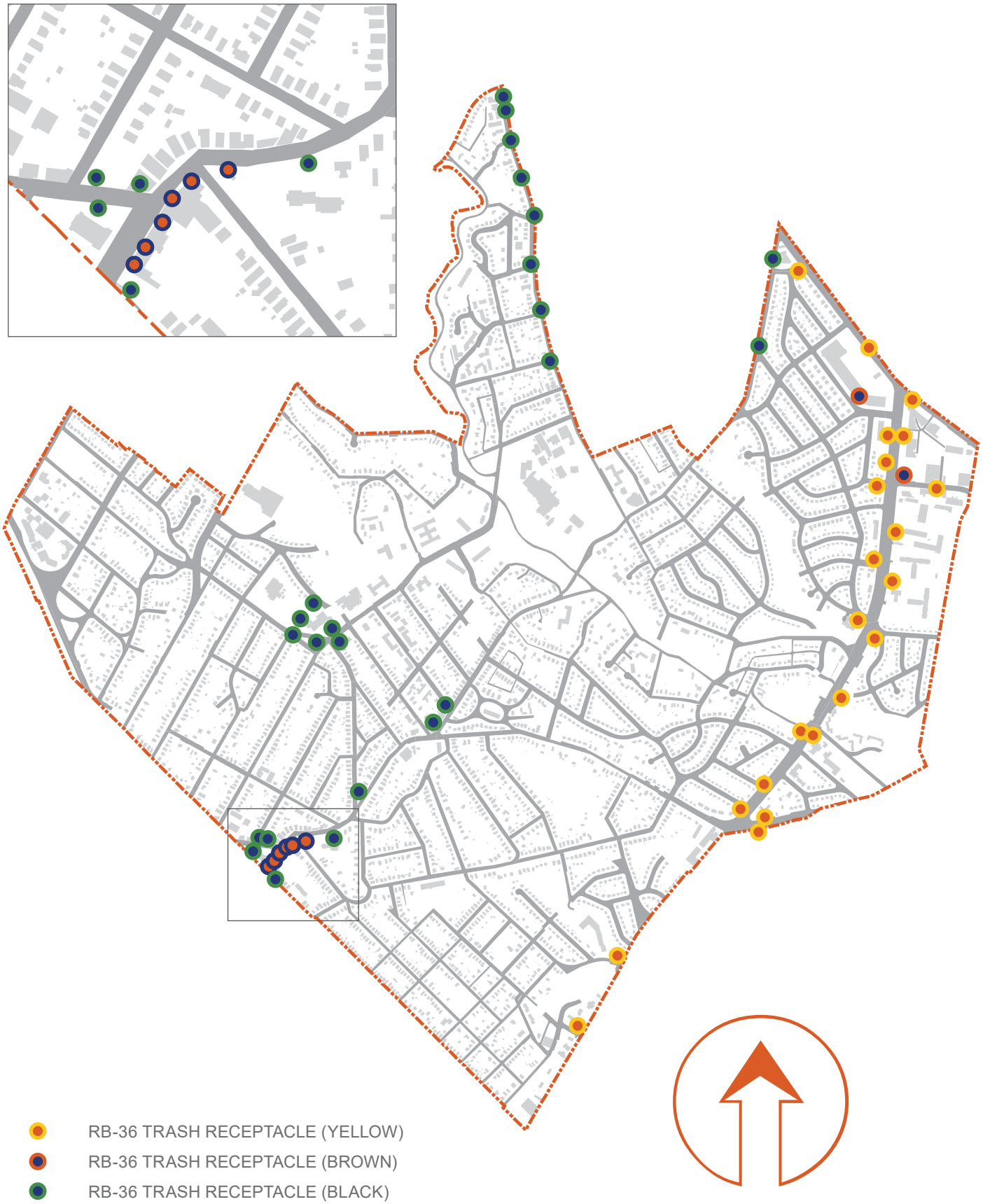
PHOTOS

BLACK RB-36 TRASH RECEPTACLE.

FOREST GREEN RB-36 IN OLD TOWN.

GRANNY SMITH GREEN (PMS 382 U) RB-24 RECYCLING RECEPTACLE NEXT TO A SUNSHINE YELLOW (PMS 128 U) RB-36 TRASH RECEPTACLE.

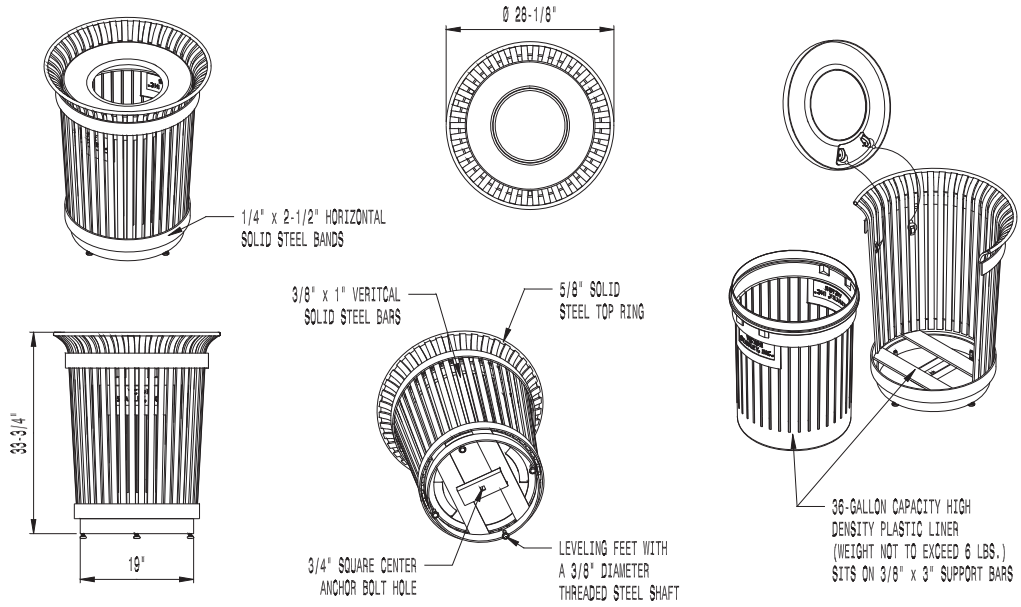
RECEPTACLES - VICTOR STANLEY RB-36



VICTOR STANLEY, INC.®
-Manufacturers of Quality Site Furnishings since 1962-

P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

* ALL DIMENSIONS ARE IN INCHES *



AVAILABLE OPTIONS:

POWDER COATING
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

CUSTOM PLAQUES & DECALS
AVAILABLE WITH STEEL PLAQUES IN VARIOUS SIZES AND PRESSURE SENSITIVE VINYL OUTDOOR DECALS.

LIDS
STANDARD TAPERED FORMED LID (AS SHOWN), AVAILABLE WITH OPTIONAL DOME LID, DOMED LID WITH STAINLESS STEEL ASHTRAY, RAIN BONNET LID, RAIN BONNET LID WITH STAINLESS STEEL ASHTRAY, CONVEX LID, CONVEX LID WITH SELF CLOSING DOOR, AND RECYCLE LIDS. ASHTRAYS AVAILABLE WITH OPTIONAL ASHTRAY COVER.

SECURITY
LID IS SECURED WITH VINYL COATED GALVANIZED STEEL AIRCRAFT CABLE. CABLE IS LOOPED AROUND ATTACHMENT BRACKETS AND CRIMPED IN PLACE.

NOTES:

1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. VICTOR STANLEY, INC., PLASTIC INNER LINERS ARE MOLDED ON TOOLING DESIGNED FOR AND OWNED BY VICTOR STANLEY, INC. THEY OFFER MAXIMUM CAPACITY AND STRENGTH WITH LIGHTWEIGHT CONSTRUCTION USING CRITICAL MOLDED RIBS, INTEGRAL HANDHOLDS, AND HIGH-STRENGTH MATERIALS. THIS MINIMIZES HANDLING DIFFICULTY AND FACILITATES EASY EMPTYING AND STORAGE WHILE AFFORDING LONG SERVICE LIFE.
5. ANCHOR BOLT(S) NOT PROVIDED BY VICTOR STANLEY, INC.
6. FOR HIGH SALT ABUSIVE CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. HOT-DIP GALVANIZING IS PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM TO WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. HOT-DIP GALVANIZING INCLUDES AN AGGRESSIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT OR AROUND 860°F (460°C). THE RESULTING SURFACE IS RESISTANT TO RUST BUT HAS SOME UNEVENNESS RESULTING FROM THE BONDING OF THE ZINC TO THE STEEL SURFACE. AS A RESULT, THE POWDER-COATING SURFACE FINISH OVER THAT GALVANIZED SURFACE MAY EXHIBIT BUMPS, UNEVENNESS, AND MAY NOT BE AS SMOOTH AS THE STANDARD FINISH; THIS UNEVEN AND INCONSISTENT FINISH IS NORMAL FOR GALVANIZING. CONTACT MANUFACTURER FOR DETAILS.
7. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
8. THIS PRODUCT IS SHIPPED FULLY ASSEMBLED.

RB-36

STEELSITES™ RB SERIES — 36-GALLON LITTER RECEPTACLE
SHOWN: STANDARD TAPERED FORMED LID

REV. 8/20/14 DRAWN L.D.L. 2014-695

Flower Avenue Streetscape Elements

This area corresponds to the Flower Avenue Green Street project area and reflects design decisions made with public input for the project in 2012-2016. The streetscape elements are primarily residential in character, supportive of the street's role as an important multi-modal corridor leading to Piney Branch Road and the Long Branch commercial district.

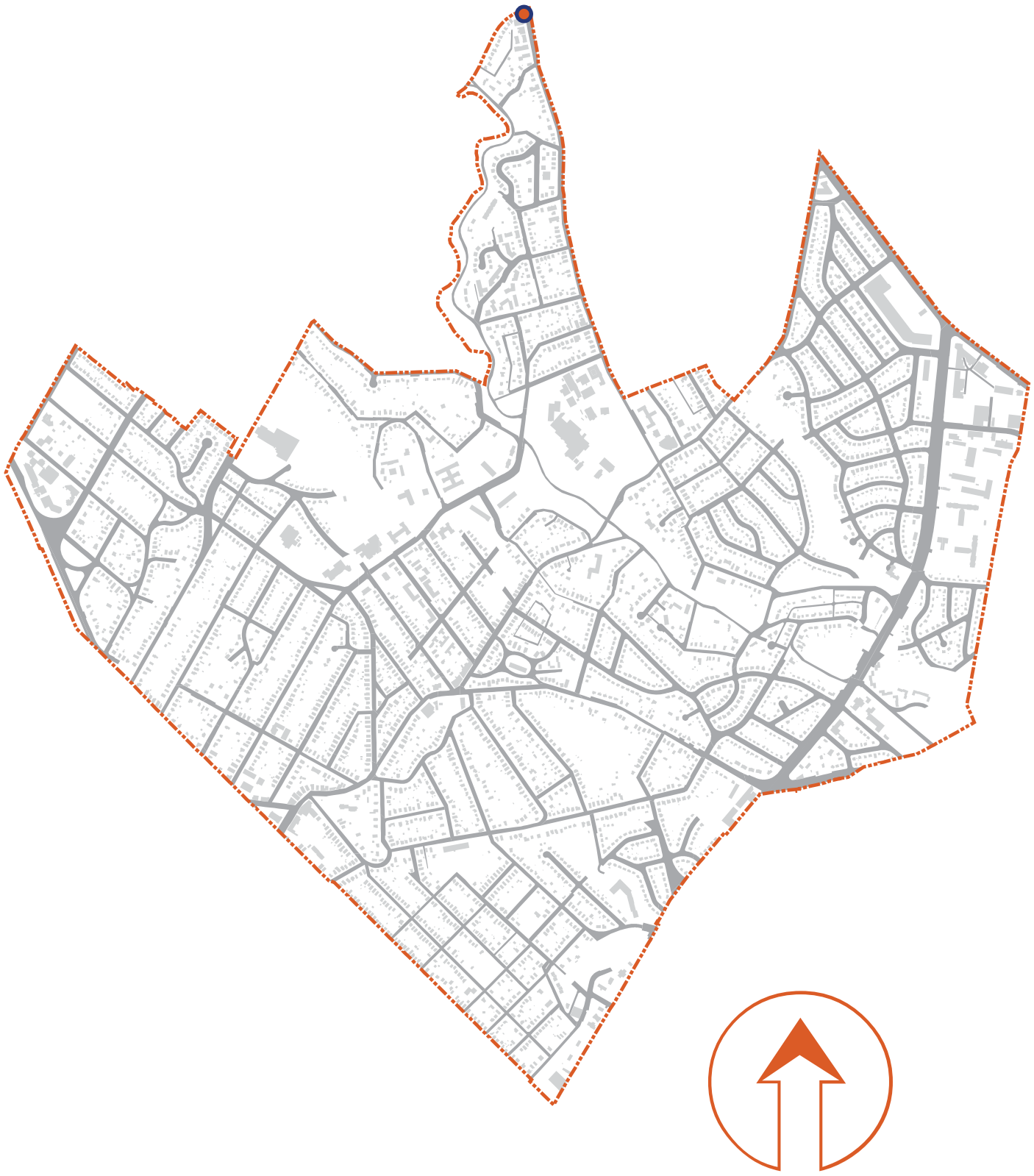
LIGHTING

PRODUCT	**K118 WASHINGTON**
VENDOR	**STRESSCRETE**
INVENTORY	1 LUMINAIRE AND POLE
DIMENSIONS	17’ 6-7/8”H X 17”D (POLE IS 13’H. GLOBE IS 44-1/4”H X 17”D.)
MATERIALS	POLE IS 11 GAUGE FLUTED FORMED STEEL. BASE IS CAST IRON. LUMINAIRE IS GLASS. EXTERIOR HARDWARE AND FASTENERS ARE STAINLESS STEEL ALLOY.
FINISHES & COLORS	BLACK POWDER COATING AND GLASS.
PURCHASE & INSTALLATION	LUMINAIRE MUST BE LOCKED IN PLACE WITH HEAVY DUTY STAINLESS STEEL SCREWS. POLE IS INSTALLED ON A CONCRETE BLOCK. NEW INSTALLATIONS AND REPLACEMENT LUMINAIRES ARE TO BE DARK-SKY FRIENDLY. THE LUMINAIRE AT THIS SITE IS THE ONLY MODEL IN THE CITY AND IS UNLIKELY TO BE REPLACED IN-KIND.

PHOTOS

K118 WASHINGTON MODEL ON FLOWER AVENUE.

LIGHTING - K118 WASHINGTON LUMINAIRE

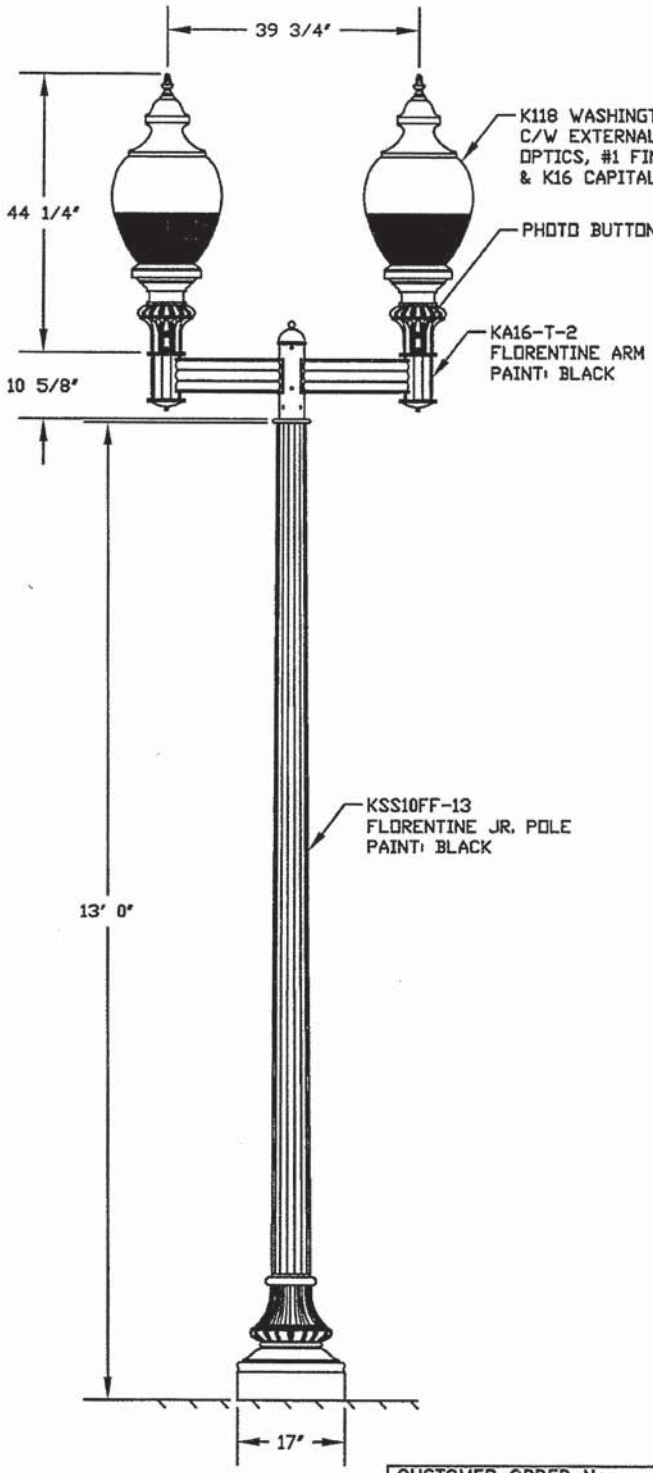


K118 WASHINGTON LUMINAIRE

CITY BOUNDARY

0 0.25 0.50 1 MILES

REV.	ALTERATION	DATE	BY
A	FIXTURES HAD INTERNAL OPTICAL SYSTEM	6/18/08	M.L



LUMINAIRE SPECIFICATIONS

CATALOGUE NO.:	K118R-EAR-II-100(MOG) -HPS-120(MT)-K16-PBC
QUANTITY:	2
GLOBE MOUNTING:	ROTOLOCK
OPTICAL SYSTEM:	EXTERNAL ACRYLIC RIPPLED
IES CLASS.:	TYPE II
WATTAGE:	100W
SOCKET TYPE:	MOGUL
LIGHT SOURCE:	HIGH PRESSURE SODIUM
LINE VOLTAGE:	120V (MULTI-TAP)
POLE ADAPTOR:	K16
PAINT:	BLACK
OPTIONS:	PHOTO BUTTON CELL

ANSI S54 LAMP BY OTHERS

BALLAST SPECIFICATIONS

	SUPPLIED	ALTERNATE
BALLAST TYPE:	HX-HPF	HX-HPF
BALLAST MANU.:	UNIVERSAL	ADVANCE
CATALOGUE NO.:	S100MLTLC3M	71A8091

OPTIONS

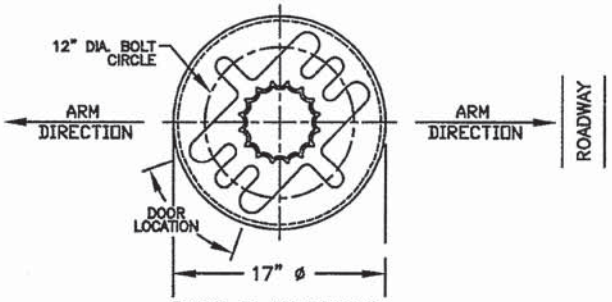
QUICK DISCONNECT	☒
TERMINAL BLOCK	☐
OTHER:	

POLE SPECIFICATIONS

CATALOGUE NO.:	KA16-T-2
QUANTITY:	1
MATERIAL:	CAST ALUMINUM
PAINT:	BLACK

POLE SPECIFICATIONS

CATALOGUE NO.:	KSS10FF-13
QUANTITY:	1
PAINT:	BLACK
BASE MATERIAL:	CAST IRON
SHAFT MATERIAL:	11 GAUGE FLUTED FORMED STEEL
SHAFT TAPER:	0.14"/FT.
TOP SIZE:	4 1/2"
OVERALL LENGTH:	13' 0"
ANCHOR BOLTS:	(4) 3/4" x 27"L (BY OTHERS)
BOLT CIRCLE:	12" ø
OPTIONS:	



BASE PLAN DETAIL

CUSTOMER APPROVAL & DATE:

CUSTOMER ORDER No:	08004020
STRESSCRETE ORDER No:	-
KING CANADA ORDER No:	13241
KING U.S. ORDER No:	37548

King Luminaire • StressCrete • Est. 1953

STRESSCRETE GROUP

Manufacturing Locations:

Burlington, Ontario 1-800-268-7809

Northport, Alabama 1-800-435-6563

Atchison, Kansas 1-800-837-1024

Jefferson, Ohio 1-800-268-7809

PROJECT/CUSTOMER:				
TAKOMA PARK				
DRAWN BY:	AT:	CHECKED BY:	DATE:	REVISION:
M.L.	SC1		6/16/08	A
DRAWING TYPE:			DRAWING NUMBER:	
APPROVAL DRAWING			37548-1	

K118 - WASHINGTON ACORN

The King Luminaire Washington Fixture is a beautiful depiction of this street light classic. The historical accurate acorn shape teamed with King's high performance LED engines makes for a perfect solution for city streets, parks, schools and commercial areas.

KING LED TECHNOLOGY

PROJECT: _____

PREPARED BY: _____

DATE: _____

Product Specification

LED ENGINE
Light engine shall be an array of 36, 42, 54 or 63 solid state Cree XPG2 light emitting diodes mounted to a multi-sided, vertical heat sink of highly conductive aluminum. The LED emitters are mounted to removable circuit boards such that they are in full thermal contact with the vertical heat sink. The vertical heat sink is open at the bottom and vented at the top to provide appropriate "dynamic airflow" cooling for the LED array. The emitters are arranged in various patterns on each face of the vertical heat sink to provide the required light distribution.

OPTICS
The LED arrays include optical baffles constructed of polished aluminum extrusion optical grade ABS plastic with a vacuum metallized reflective surface or clear acrylic with precision refractors over each diode. Both optical options are designed to efficiently control light distribution.

LUMINAIRE CONSTRUCTION
All K118 cast components shall consist of a heavy grade A319 cast aluminum. The main body, or capital, acts as an enclosure for the ballast assembly and is of adequate thickness to give sufficient structural rigidity. The capital shall have an opening at the base tenon body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The Luminaire shall be locked in place by means of heavy duty, stainless-steel set-screws.

GLOBE ASSEMBLY
The protective globe shall be molded of either; rippled polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equiv., or rippled acrylic Acrylite Plus Acrylic Polymer, or equiv., having a minimum thickness of 0.125" with an overall diameter of 17 1/2" and an over-all height of 31".

The globe assembly is a self-contained unit consisting of the globe, rugged cast locking ring, and the LED light engine and optical baffles. The LED light engine is of a modular design, and is able to be quickly removed from the globe assembly. The globe assembly is secured to the main housing by means of a spring-tensioned, twist-locking "roto-lock" unit to allow tool-less removal of the globe, while maintaining a secure seal between the globe assembly and the main body of the luminaire, making the K118 Washington Luminaire suitable for an outdoor environment.

High performance protection against water or dust particle ingress is available by means of a non-porous, closed-cell silicon rubber o-ring gasket which is highly efficient in sealing against particle ingress over a wide temperature range (-40ºF to 310ºF).

DRIVER
The LED universal dimmable driver will be class 2 and capable 120 - 277V or 277 - 480V input voltage, greater than .9 power factor, less than 20% total harmonic distortion and feature ambient temperature range of -35 ºC up to 65ºC. Each LED system comes with a standard surge protection designed to withstand up to 20Kv of transient line surge. The driver assembly will be mounted on a heavy duty fabricated galvanized steel mounting bracket to allow complete tool-less maintenance.

PHOTOMETRICS
Fixtures are tested to IESNA LM79 specifications. These reports are made available.

COLOR RENDERING
High output LED's come standard at 4500K (+/- 250K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

LUMEN MAINTENANCE
Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 50,000hrs.

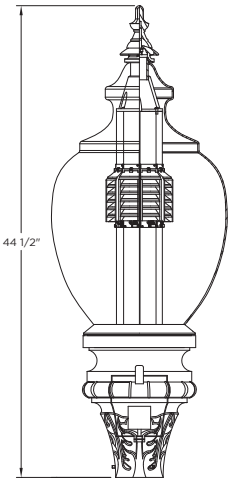
WIRING
All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Loc connectors or to a terminal block. Mate-N-Loc shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150ºC. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150ºC, 600V, and color coded for the required voltage.

THERMALS
Fixtures tested by a DOE sanctioned test facility to determine the maximum In-Situ solder-point or junction-point temperatures of the LED emitters. This report will be made available.

FINISH
Housing is finished with a 13 step Kingcoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, federal green and rain forest. RAL and custom color matches are available. Please see the King Color selector for complete list of colors.

MISCELLANEOUS
All exterior hardware and fasteners, wholly or partly exposed, shall be stainless-steel alloy. All internal fasteners are stainless-steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

WARRANTY
K118 Washington fixtures come with a 7 year limited warranty.



CERTIFICATION:
CSA US Listed
Suitable for wet locations
ISO 9001
IP66
DLC
ARRA Compliant
LM79 / LM80 Compliant

DRIVER INFO:
>0.9 Power Factor
<20% Total Harmonic Distribution
120 - 277v & 480v
-35ºC Minimum Tempurature
65ºC Maximum Ambient Operating Tempurature
20Kv Surge Protection

EPA:
1.60 sq. ft.

FIXTURE WEIGHT:
46 lbs.

V001
3-12-2014

Power & Lumens

Catalog Code	Input Watts	Voltage/mA	Series	IES	CCT	BUG	Lumens	Efficacy	Application
K118-B3XX-IV-60(SSL)-1036-120	60.56	120/500mA	1036 (36 emitters)	Type IV	4500	B1U3G2	4228	69.8	NSL NSH WSL WSH WDL WDH WS TL WS TH
K118-B3XX-IV-75(SSL)-1036-120	82.56	120/667mA	1036 (36 emitters)	Type IV	4500	B1U3G3	5429	65.8	NSL NSH WSL WSH WDL WDH WS TL WS TH
K118-B3XX-IV-100(SSL)-1054-120	93.14	120/533mA	1054 (54 emitters)	Type IV	4500	B1U3G3	6846	73.5	NSL NSH WSL WSH WDL WDH WS TL WS TH

B3 = 3rd Generation Baffled Array

Catalog Code	Input Watts	Voltage/mA	Series	IES	CCT	BUG	Lumens	Efficacy	Application
K118-B2XX-III-40(SSL)-1042-120	43.66	120/292mA	1042 (42 emitters)	Type III	4500	B1U3G1	3454	79.1	NSL WSH WDL
K118-B2XX-III-60(SSL)-1042-120	54.92	120/383mA	1042 (42 emitters)	Type III	4500	B1U3G1	2945	53.6	NSL WSH WDL
K118-B2XX-III-75(SSL)-1042-120	69.08	120/525mA	1042 (42 emitters)	Type III	4500	B1U3G2	4619	66.9	NSL NSH WSH WDL WDH WS TL WS TH
K118-B2XX-III-100(SSL)-1063-120	93.54	120/467mA	1063 (63 emitters)	Type III	4500	B2U3G2	7317	78.2	NSL NSH WSH WDL WDH WS TL WS TH
K118-B2XX-III-120(SSL)-1063-120	108.39	120/544mA	1063 (63 emitters)	Type III	4500	B2U3G2	7730	71.3	NSL NSH WSH WDL WDH WS TL WS TH
K118-B2XX-V-75(SSL)-1042-120	71.2	120/525mA	1042 (42 emitters)	Type V	4500	B2U3G1	4697	66	
K118-B2XX-V-100(SSL)-1063-120	90.86	120/467mA	1042 (42 emitters)	Type V	4500	B2U2G1	4661	51.3	

B2 = 2nd Generation Baffled Array

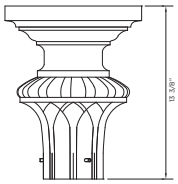
Catalog Code	Input Watts	Voltage/mA	Series	IES	CCT	BUG	Lumens	Efficacy	Application
K118-R1XX-III-75(SSL)-1042-120	68.84	120/525mA	1042 (42 emitters)	Type III	4500	B1U4G3	5281	76.7	NSL NSH WSL WSH WDL WDH WS TL WS TH
K118-R1XX-III-100(SSL)-1063-120	93.79	120/467mA	1063(63 emitters)	Type III	4500	B2U5G3	7144	76.2	NSL NSH WSL WSH WDL WDH WS TL WS TH
K118-R1XX-III-120(SSL)-1063-120	116.9	120/578mA	1063 (63 emitters)	Type III	4500	B2U4G2	8384	71.7	NSL NSH WSL WSH WDL WDH WS TL WS TH

R1 = 1st Generation Baffled Array

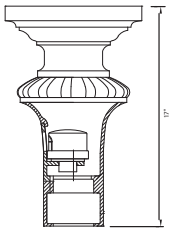
Fixture Options

Capitals Options

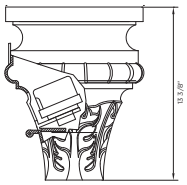
K16



K18



K14 C/W PR



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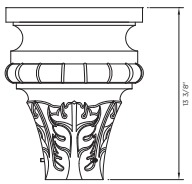
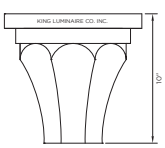
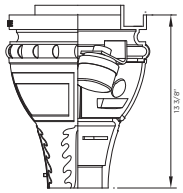


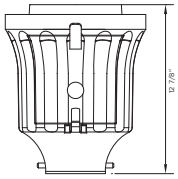
K10



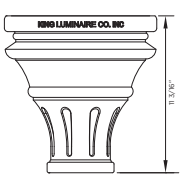
K23 C/W PR



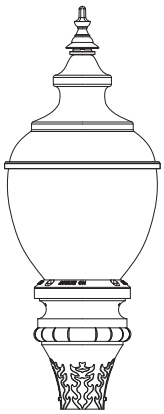
K24 C/W PR



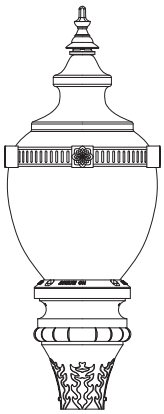
K30



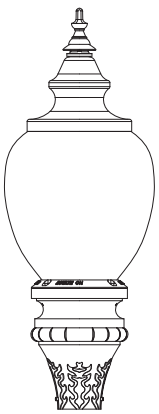
Decorative Options



Contempra Ring



GE Ring



Solid Spun Aluminium Top

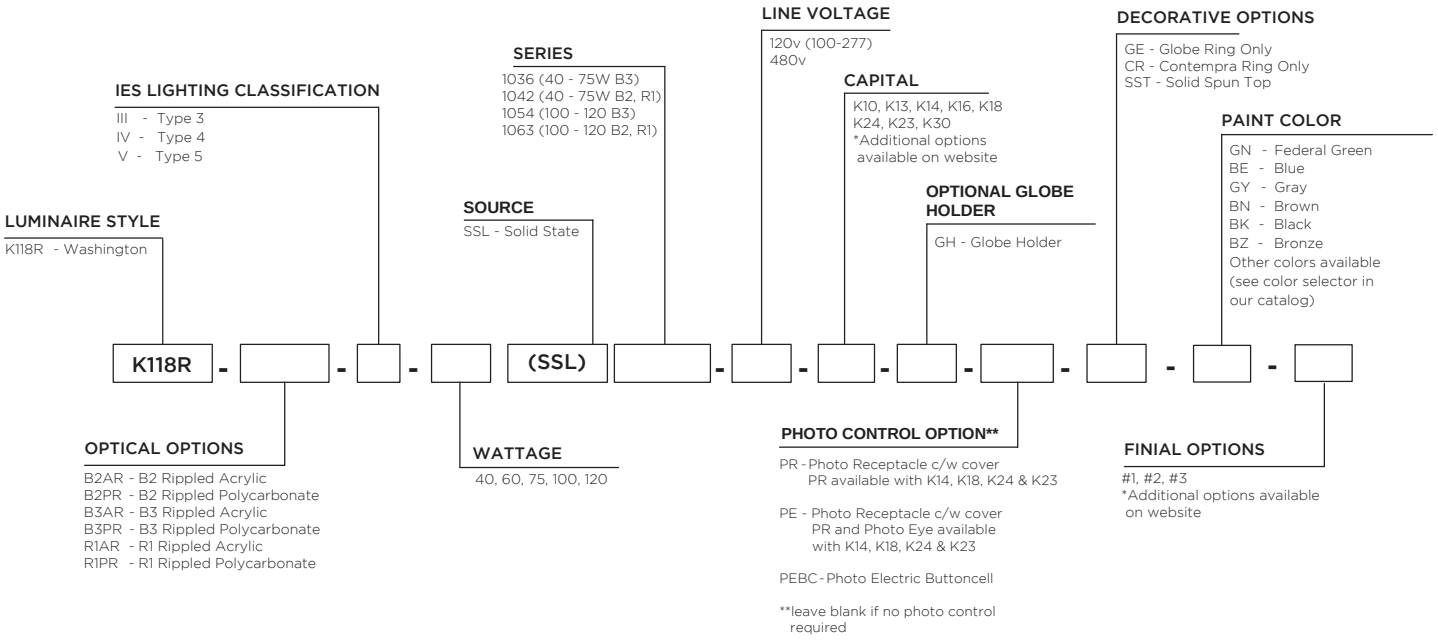
Finial Options

#1

#2

#3

How to Order

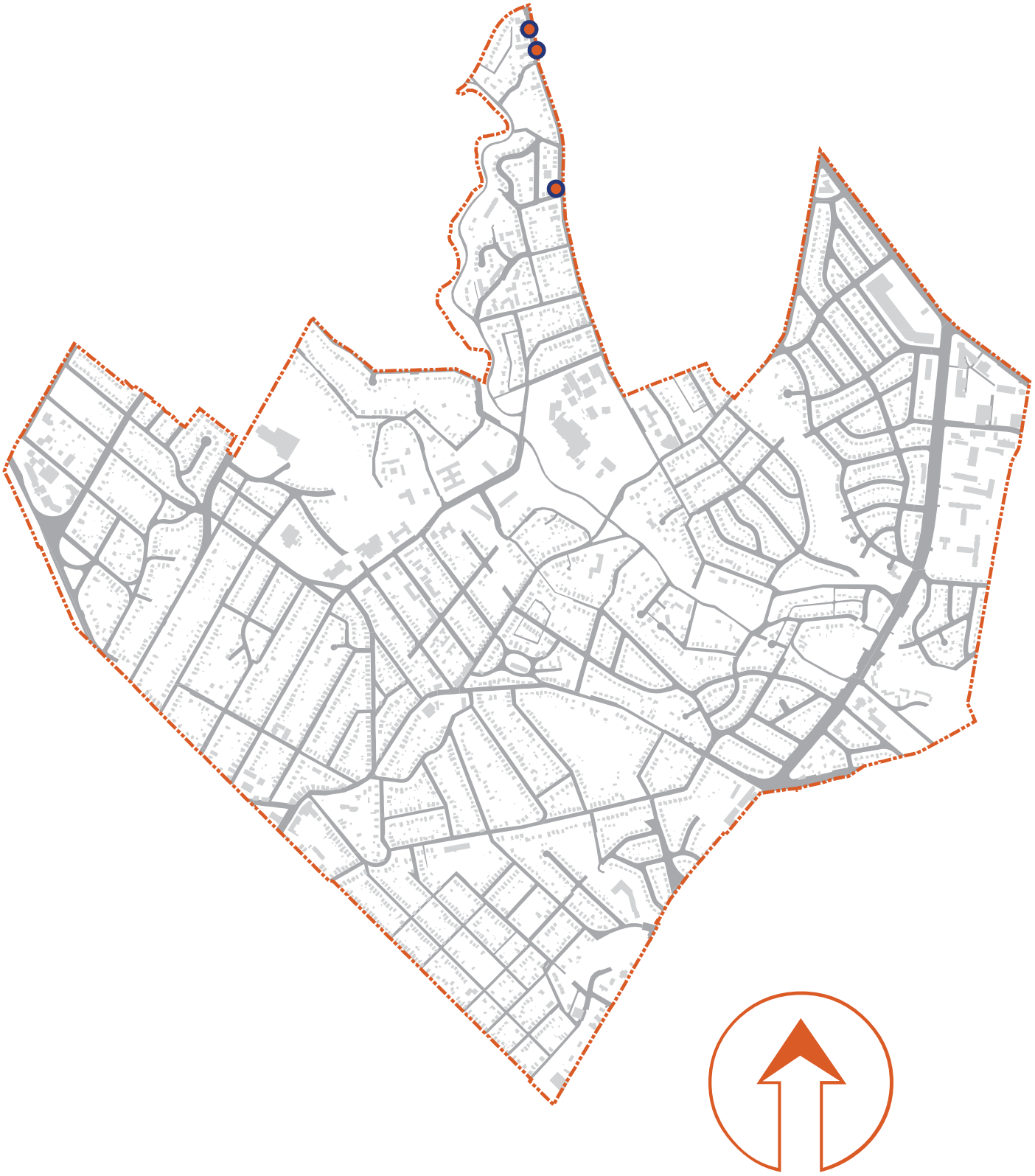

LUMINAIRE STYLE
K118R - Washington
IES LIGHTING CLASSIFICATION
III - Type 3
IV - Type 4
V - Type 5
SOURCE
SSL - Solid State
SERIES
1036 (40 - 75W B3)
1042 (40 - 75W B2, R1)
1054 (100 - 120 B3)
1063 (100 - 120 B2, R1)
LINE VOLTAGE
120v (100-277)
480v
CAPITAL
K10, K13, K14, K16, K18
K24, K23, K30
*Additional options
available on website
OPTIONAL GLOBE HOLDER
GH - Globe Holder
DECORATIVE OPTIONS
GE - Globe Ring Only
CR - Contempra Ring Only
SST - Solid Spun Top
PAINT COLOR
GN - Federal Green
BE - Blue
GY - Gray
BN - Brown
BK - Black
BZ - Bronze
Other colors available
(see color selector in
our catalog)
K118R
(SSL)
OPTICAL OPTIONS
B2AR - B2 Rippled Acrylic
B2PR - B2 Rippled Polycarbonate
B3AR - B3 Rippled Acrylic
B3PR - B3 Rippled Polycarbonate
R1AR - R1 Rippled Acrylic
R1PR - R1 Rippled Polycarbonate
WATTAGE
40, 60, 75, 100, 120
PHOTO CONTROL OPTION**
PR - Photo Receptacle c/w cover
PR available with K14, K18, K24 & K23
PE - Photo Receptacle c/w cover
PR and Photo Eye available
with K14, K18, K24 & K23
PEBC - Photo Electric Buttoncell
**leave blank if no photo control
required
FINIAL OPTIONS
#1, #2, #3
*Additional options available
on website

SEATING

PRODUCT	**RB-28 SERIES BENCH**
VENDOR	**VICTOR STANLEY**
INVENTORY	3 BENCHES ON FLOWER AVENUE
DIMENSIONS	72-1/2”L X 24-3/8”W X 31-1/4”H (SEAT HEIGHT IS 17”)
MATERIALS	BENCH IS MADE FROM 1/4“ X 1-1/2” STEEL BARS WITH 1/2“ X 2” END UNITS, AND 3/8“ X 1” STEEL AND 1-5/16“ TUBULAR STEEL SUPPORTS. STEEL IS PURCHASED FROM AMERICAN ELECTRIC FURNACE MILLS, WITH AT LEAST 98% OF THE STEEL OBTAINED FROM RECYCLED SCRAP METAL. 63% OF TUBULAR STEEL IS EITHER POST-CONSUMER OR POST-INDUSTRIAL RECYCLED SCRAP STEEL.
FINISHES & COLORS	BENCHES ARE ALL IN BLACK POWDER FINISH.
PURCHASE & INSTALLATION	MOUNT AND ANCHOR USING ANCHOR BOLTS (NOT INCLUDED).
PHOTOS	

RB-28 BENCH FROM THE VICTOR STANLEY WEBSITE.

SEATING - VICTOR STANLEY RB-28



VICTOR STANLEY RB-28 SERIES BENCH

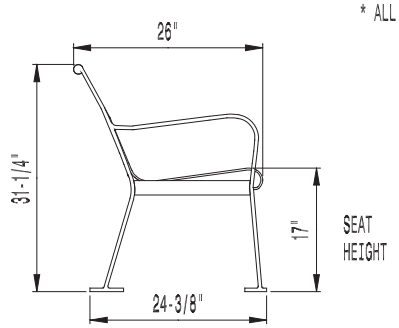
CITY BOUNDARY

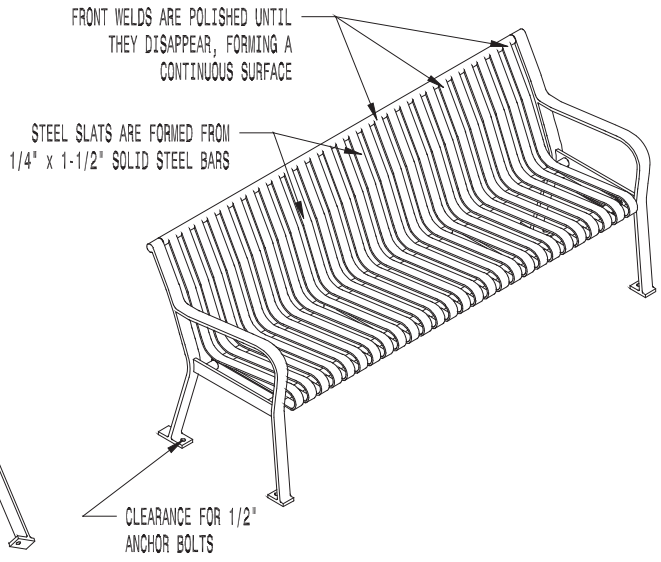
0 0.25 0.50 1 MILES

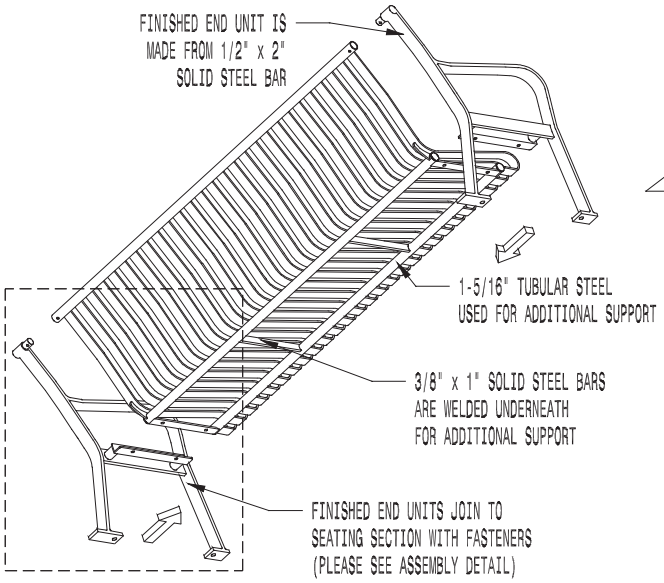
VICTOR STANLEY, INC.®
-Manufacturers of Quality Site Furnishings since 1962-

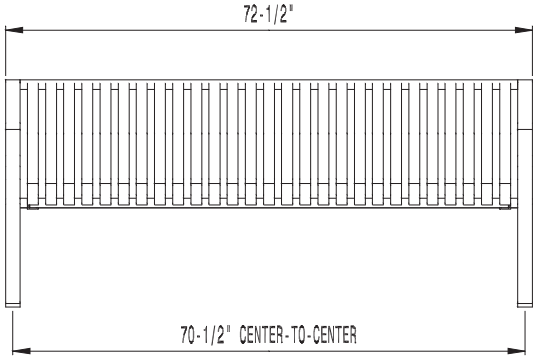
P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

* ALL DIMENSIONS ARE IN INCHES *





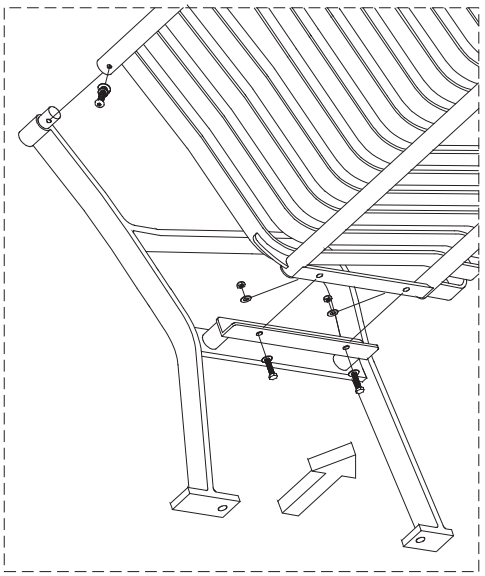




AVAILABLE OPTIONS
- POWDER COATING
  - 10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)
- INTERMEDIATE & CENTER ARMRESTS
  - 4', 6', & 8' AVAILABLE WITH OPTIONAL SOLID STEEL ARMRESTS

LENGTHS
- STANDARD 4'
- STANDARD 6' LENGTH SHOWN
- STANDARD 8'

ASSEMBLY DETAIL



NOTES:
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
5. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.

RB-28

STEELSITES™ RB SERIES

ALL STEEL CONTOURED BENCH
SHOWN: STANDARD 6-FOOT LENGTH

REV. 11/30/12 DRAWN L.D.L. 2012-1126

Historic District Streetscape Elements

Designated by Montgomery County, the Takoma Park Historic District covers the oldest developed portions of the city adjacent to the Takoma Metro Station, Montgomery College, and the Old Town and Takoma Junction commercial areas. Modifications to the residential and commercial streetscape in the Historic District should be minimal and seek approval from the Montgomery County Historic Preservation Commission. Improvements on Carroll and Laurel Avenues in the early 2000s reinforced the aesthetic of streetscape elements in the Historic District, characterized by black metal finishes and classic designs.

SIDEWALKS

PRODUCT **CONCRETE**

VENDOR N/A - INSTALLED BY PUBLIC WORKS OR CITY CONTRACTOR

DIMENSIONS THE CITY AIMS TO BUILD NEW SIDEWALKS IN RESIDENTIAL AREAS THAT ACHIEVE A WIDTH OF 5 FEET (WIDER IN COMMERCIAL AREAS). MANY EXISTING RESIDENTIAL SIDEWALKS ARE 4 FEET WIDE. WHERE THERE ARE SPACE CONSTRAINTS, A MINIMUM WIDTH OF 36 INCHES MUST BE ACHIEVED TO ACCOMMODATE WHEELCHAIRS. THIS MINIMUM WIDTH IS ONLY ALLOWED FOR SHORT DISTANCES AROUND OBSTRUCTIONS.

MATERIALS MSHA CONCRETE MIX #3, #6, AND #9 ARE USED FOR SIDEWALKS DEPENDING ON ANTICIPATED WEIGHT AND LOAD. A HYDROPHOBIC TOP COAT TREATMENT IS OFTEN APPLIED (WEARS OFF IN ABOUT A YEAR).

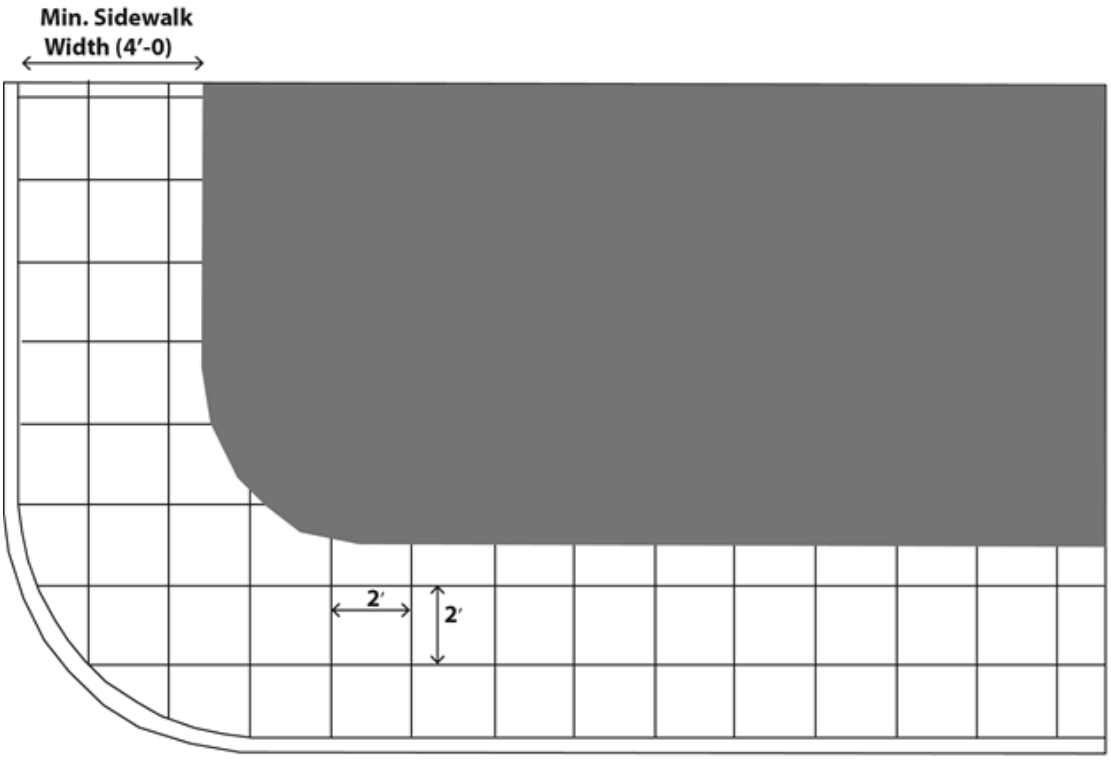
REFER TO SPECIFICATIONS FROM THE MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS OFFICE OF MATERIALS TESTING FOR COMPOSITION OF CONCRETE MIX.

FINISHES & COLORS HISTORIC DISTRICT FINISHING PATTERN BLOCKS ARE MINIMUM 4‘ W AND CREATED BY SEAMING POURED CONCRETE TO 2’ X 2’ IN DIMENSION. THIS FINISHING PATTERN IS TO BE INSTALLED AND REPLACED ONLY IN AREAS WHERE CURRENTLY IN USE (E.G. 7300 BLOCK OF SOUTHBOUND CARROLL AVENUE).

PAINTING OF SIDEWALKS AND CURBS IS TO BE CONSISTENT WITH CITY POLICY.

PURCHASE & INSTALLATION CONTRACTORS ARE DIRECTED TO FOLLOW MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DESIGN STANDARDS IN REGARDS TO DEPTH, SLOPE, AND CURB CONSTRUCTION.

SPECS



Takoma Park Historic Sidewalk - Finishing Detail

Note: All construction details related to concrete sidewalks and sidewalk ramps shall conform to “Montgomery County Department of Transportation” Standards.

Note: Not to scale

MARYLAND STATE HIGHWAY ADMINISTRATION Mix 3

OFFICE OF MATERIALS TECHNOLOGY

CONCRETE TECHNOLOGY DIVISION

CONCRETE MIX DESIGN

Mix Code No.: S3W-N35-8-12 Date : 29-Mar-12

Design Strength 3500 P.S.I. Slump: 2 - 5 in

Max. Allow. H_2O 34.8 Gallons / C.Y. Max. W/C Ratio .50

(1)	(2)	(3)	(4)	(5)
		[(5) x (4)] x 62.4		(3) / [(4) x 62.4
Material	**Proportion Percentage**	**Design Weights lbs. Per C.Y.**	**Specific Gravity**	**Absolute Vol. (cubic ft.)**
Cement	65.0	377	3.15	1.92
G.I.B.F.S	35.0	203	2.95	1.10
Sand (SSD)	40.4	1220	2.62	7.46
No. 57 Agg	59.6	1800	2.72	10.61
Water	32.0 Gal	267	1.00	4.28
Estimated Air %	6.5	Air Volume = 27 x Est. Air %		1.76
			Total Volume =	27.13
		Theoretical Weight of Mix lbs./cu.ft.		142.54

Producer	Rockville Fuel & Feed Co., Inc.	Plant	Rockville
Cement	Essroc - Martinsburg	GIBFS	Lafarge-NewCem
No. 57 Agg.	Lafarge-Frederick	Sand	Chaney-Waldorf
Air Ent.Admix	Daravair AT 60	Dosage Rate	¼ - 4 oz/cwt
Reducing Admix.	WRDA 35	Dosage Rate	2 - 4 oz/cwt

NOTE:This mix design was evaluated by trial batch on Mar-03
It meets all specification requirements.

REMARKS:

APPROVAL RECOMMENDED

for

Vicki R. Stewart
Assistant Division Chief
Concrete/Chemical/Cement Laboratory

Mix 9

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY
CONCRETE TECHNOLOGY DIVISION
CONCRETE MIX DESIGN

Mix Code No.: S9WH-8-1 Date : 29-Mar-12

Design Strength @ 12 HRS 2500 P.S.I. Slump: 4 - 8 in
@ 24 HRS 3000 P.S.I.

Max. Allow. H_2O 43.2 Gallons / C.Y. Max. W/C Ratio .45

(1)	(2)	(3)	(4)	(5)
		[(5) x (4)] x 62.4		(3) / [(4) x 62.4
Material	**Proportion Percentage**	**Design Weights lbs. Per C.Y.**	**Specific Gravity**	**Absolute Vol. (cubic ft.)**
Cement	100.0	800	3.15	4.07
G.I.B.F.S				
Sand (SSD)	39.9	1128	2.60	6.95
No. 57 Agg	60.1	1700	2.72	10.02
No. Agg.				
Water	32.0 Gal	267	1.00	4.28
Estimated Air %	6.5	Air Volume = 27 x Est. Air %		1.76
			Total Volume =	27.08
			Theoretical Weight of Mix lbs./cu.ft.	143.83

Producer	Rockville Fuel & Feed Co., Inc.	Plant	Rockville
Cement	Essroc - Martinsburg	GIBFS	
No. 57 Agg.	Lafarge-Frederick	Sand	Chaney-Waldorf
Air Ent.Admix	Daravair AT 60	Dosage Rate	¼ - 4 oz/cwt
Reducing Admix.	WRDA 35	Dosage Rate	3 oz/cwt
HRWR Admix.	EXP 950	Dosage Rate	4 oz/cwt

NOTE:This mix design was evaluated by trial batch on Feb-00
It meets all specification requirements.

REMARKS:

APPROVAL RECOMMENDED

for
Vicki R. Stewart
Assistant Division Chief
Concrete/Chemical/Cement Laboratory

Takoma Park Streetscape Manual

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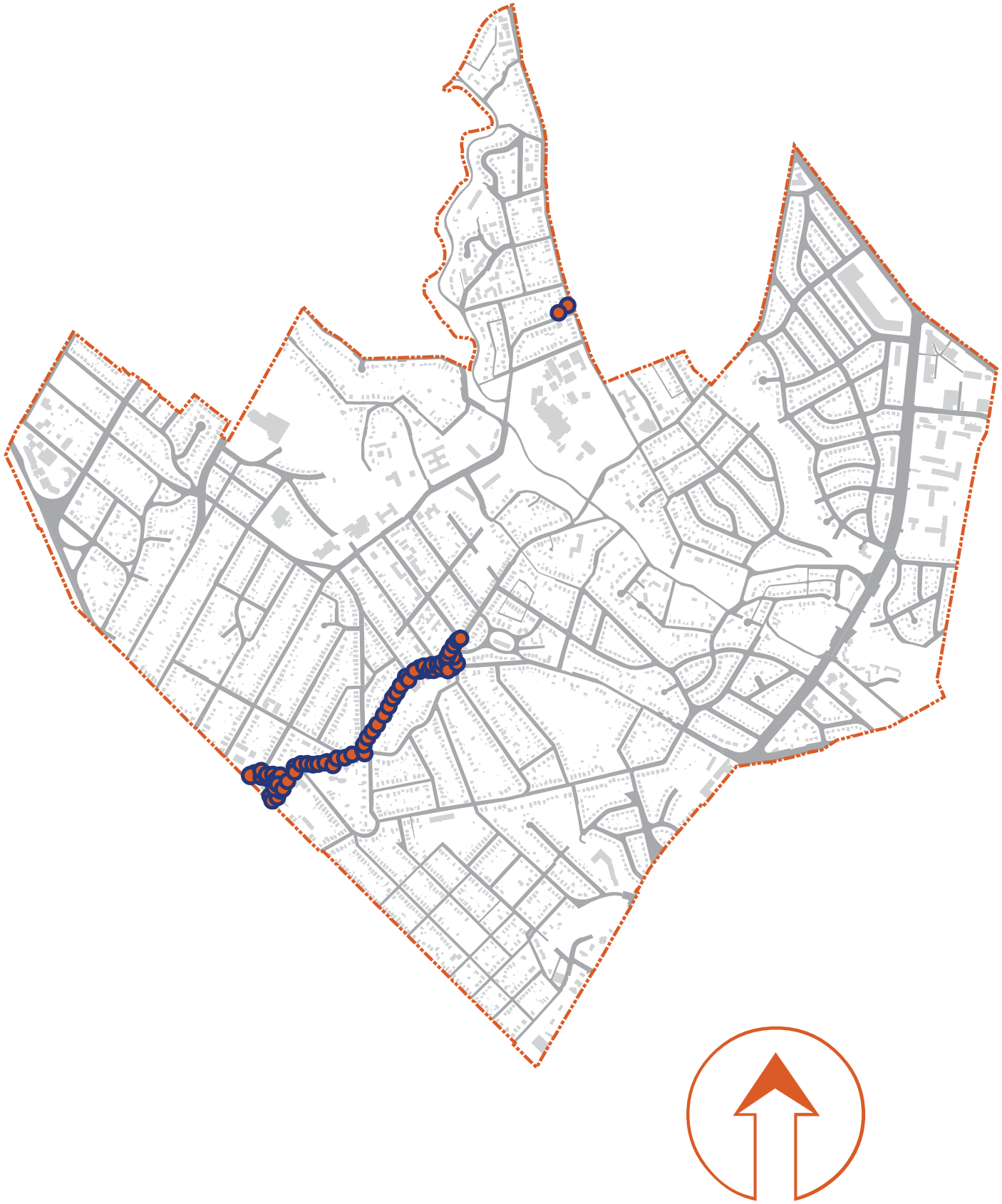
LIGHTING

PRODUCT	**C1888A (LUMINAIRE), CP1888 (POLE)**
VENDOR	**HADCO**
INVENTORY	57 LUMINAIRES AND POLES ON CARROLL AND LAUREL AVENUE
DIMENSIONS	13’-15/16”H X 18.88”D (POLE IS 9’H. LUMINAIRE IS 46.79”H X 18.16”D.)
MATERIALS	POLE IS 4“ STRAIGHT FLUTED WITH 3” TENON 1/8“ THICK WALLED ALUMINUM WITH GFI DUPLEX OUTLET. BASE IS CAST ALUMINUM. LUMINAIRE IS ALUMINUM AND GLASS.
FINISHES & COLORS	BLACK POWDER COATING AND GLASS.
PURCHASE & INSTALLATION	LUMINAIRE MUST BE MOUNTED TO POLE UPON RECEIPT. UNIT TO BE INSTALLED ON CONCRETE BLOCK. NEW INSTALLATIONS AND REPLACEMENT LUMINAIRES ARE TO BE DARK-SKY FRIENDLY.
PHOTOS	

C1888A LUMINAIRE AND CP1888 POLE INSTALLED ALONG CARROLL AVENUE.

LIGHTING - HADCO C1888A LUMINAIRE



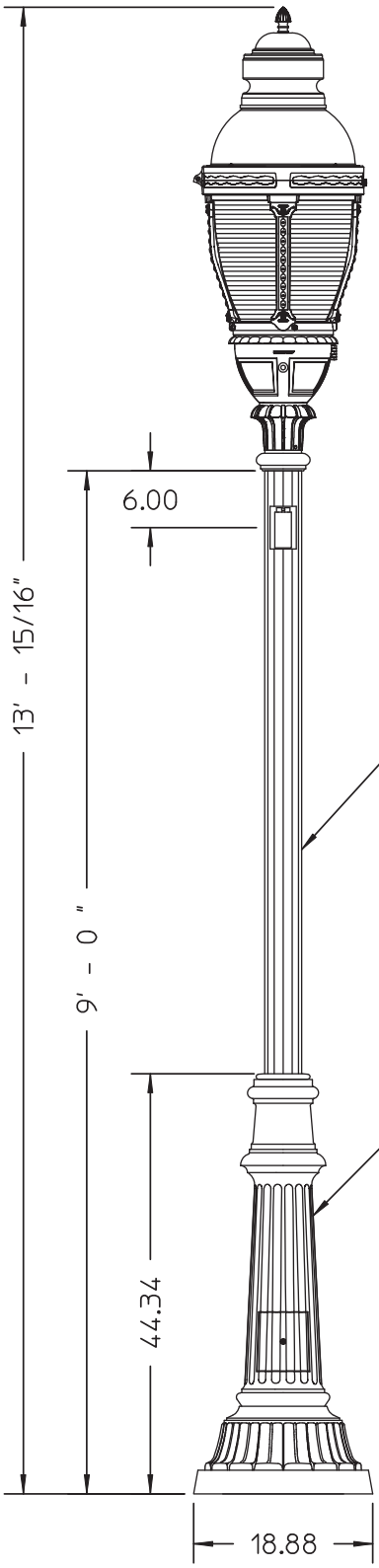
HADCO LUMINAIRE

CITY BOUNDARY

0 0.25 0.50 1 MILES

Ordering Guide:

C1888A: LUMINAIRE
CP1888: POLE



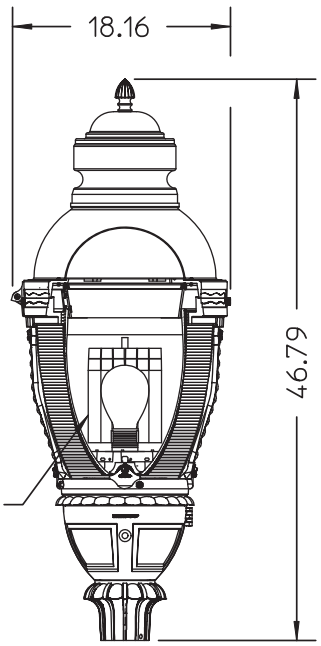
Color:
Black

POLE:
4" STRAIGHT FLUTED
W/ 3" TENON
0.125" WALL THICKNESS
6005-T5 ALUMINUM
W/ GFI DUPLEX OUTLET

BASE:
CAST ALUMINUM
#356HM ALLOY
W/ ACCESS DOOR

BASE DETAIL:
REFERENCE TEMPLATE
#T01000395

Luminaire Detail
Scale 1:16



Luminaire Matrix

COLOR:
X BLACK
_ WHITE
_ VERDE
_ BRONZE
_ GREEN

OPTICS:
X TYPE IV REFR. PANEL
_ TYPE V REFR. PANEL
_ TYPE III CUTOFF
_ TYPE V CUTOFF

PHOTO CONTROL:
X BUTTON EYE
_ TWIST-LOCK RECEPT.
_ NONE

SOCKET: MODIFIED
_ MEDIUM
_ MOGUL
X INDUCTION

WATTAGE: MODIFIED
_ 70W HPS
_ 100W HPS
_ 150W HPS
_ 250W HPS
_ 70W MH
_ 100W MH
_ 150W MH
_ 175W MH
_ 250W MH
X 85W INDUCTION

VOLTAGE:
X 120V
_ 208V
_ 240V
_ 277V
_ 347V

PRODUCT APPROVALS

HADCO	SMK
CUST.	

NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING

Full Specification (Complete Assembly) Drawing

HADCO®
is a Philips group brand

100 Craftway P.O. Box 128
Littlestown, Pennsylvania 17340-0128
Phone 717-359-7131
Fax 717-359-9515
www.hadco.com

JOB NAME: *Takoma Junction*

REP. TERRITORY:	DRAWN BY:
14	*JRS*

SCALE:	DATE:
1:20	*05.09.08*

DRAWING NUMBER: *C1888-DWG01*

REP: *Lightolier-Baltimore*

REV: *A*	PCN: *08-035*
BY: .	DATE: .

Takoma Park Streetscape Manual

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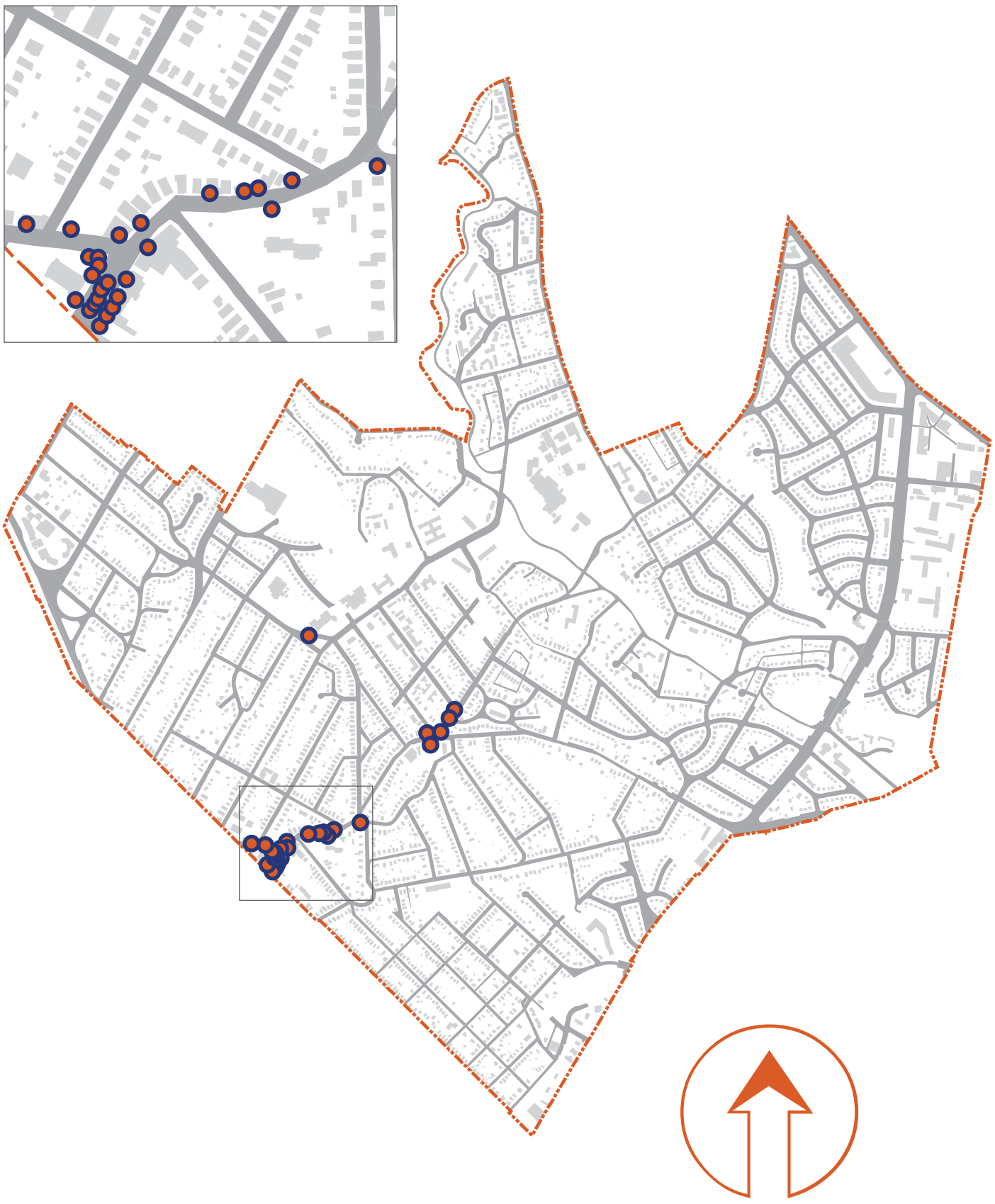
SEATING

PRODUCT	**BOSTON BENCH MODEL B-76**
VENDOR	**BOSTON BENCH**
INVENTORY	32 BENCHES
DIMENSIONS	75-1/2”W X 23”L X 28-1/4”H (SEAT HEIGHT IS 16” AND SEAT DEPTH IS 17-1/2”)
MATERIALS	CASTINGS ARE CAST IRON. WOOD SLATS ARE IPE.
FINISHES & COLORS	BENCHES ARE ALL IN BENCH GREEN POLYESTER POWDER COAT FINISH WITH IPE WOOD SLATS.
PURCHASE & INSTALLATION	BENCHES COME IN 2’, 4’, 5’, 6’, AND 8’ LENGTHS. STANCHION COLORS CAN BE CUSTOMIZED. SLATS AVAILABLE IN IPE WOOD, PLASTIC, OR NUTEAK. BRASS PLAQUES CAN BE ADDED.
PROJECTS/ LOCATIONS	- OLD TOWN - TAKOMA JUNCTION - COMMUNITY CENTER
PHOTOS	

A B-76 MODEL BOSTON BENCH AROUND TOWN.

SIDE VIEW OF A B-76 MODEL BOSTON BENCH.

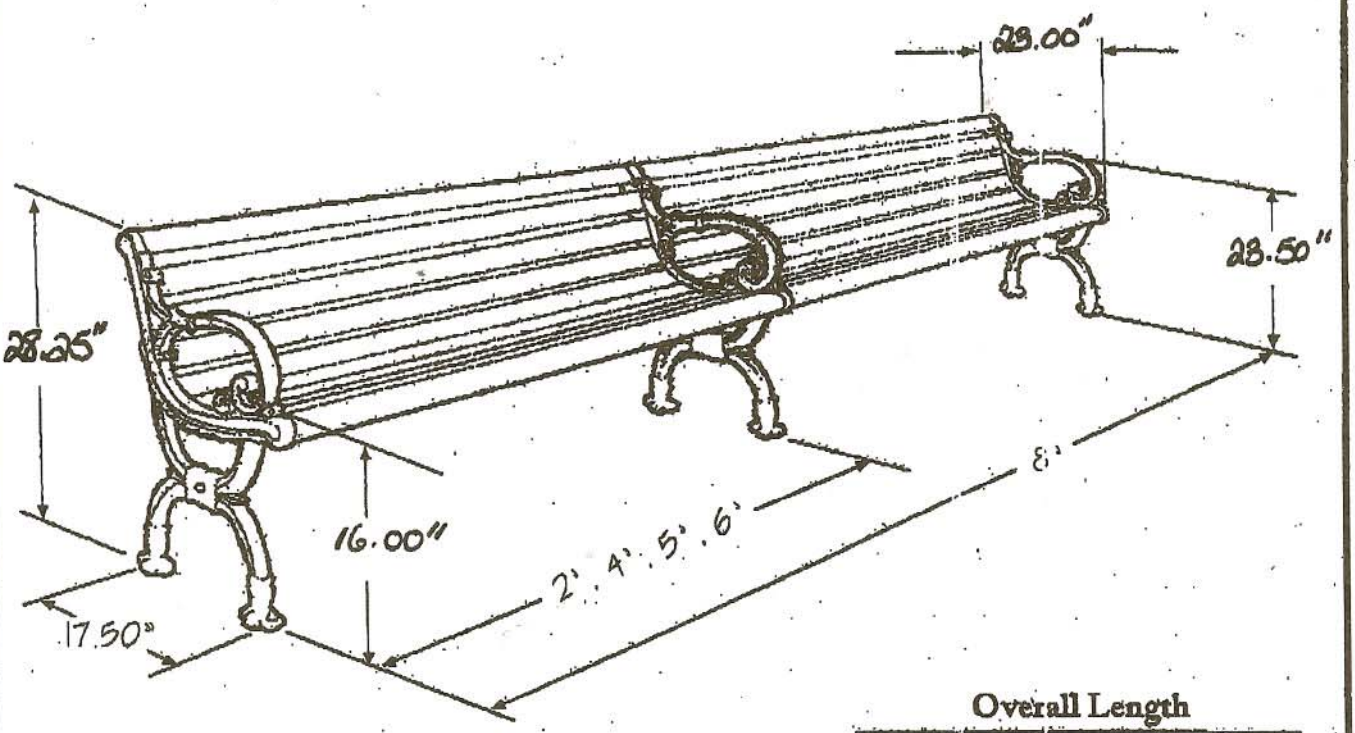
SEATING - BOSTON BENCH



Boston Bench

B·E·N·C·H
ADVERTISING SPONSORSHIP

BENCH MODEL B-76



Overall Length

2'	4'	5'	6'	8'
27.50"	51.50"	63.50"	75.50"	99.50"

These are nominal dimensions and should not be used to set anchor bolts.

PERSONALIZATION
We have numerous ways of incorporating your special message or logo onto our products. Please refer to our brochure for available options.

MISCELLANEOUS
All benches are shipped unassembled (KD).

DIMENSIONS
Overall Height: 28.25" - Overall Depth: 23.00"
Arm Height: 23.25" - Seat Height: 16.00"
Tie-down: .50" hole for a .38" dia. anchor bolt.

MATERIAL & FINISHES
CASTINGS: Gray Cast Iron
FINISHES: Polyester powder coat. Standard colors are:
- Deep Black
- Bench Green
- Other

WOOD SLATS: Ipe.
WOOD FINISH: Optional one coat clear wood preservative, factory applied.
HARDWARE: Lag Screws ☐
Carriage Bolts ☐

B·E·N·C·H
ADVERTISING SPONSORSHIP

P.O. Box 1555
Concord, MA 01742

Tel – (978)287-9580
Fax – (978)287-9581

www.BostonBench.com

Takoma Park Streetscape Manual

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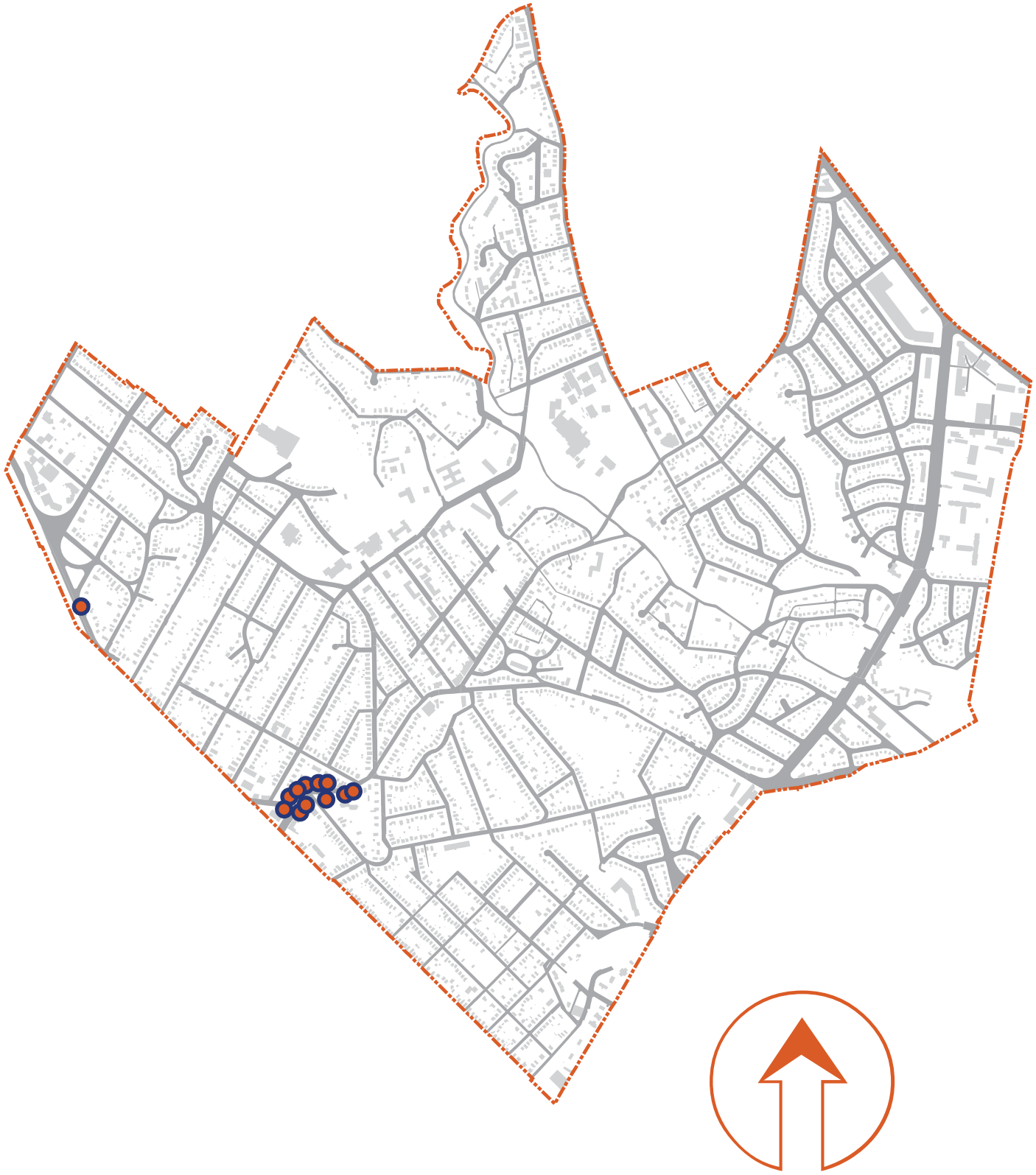
SEATING

PRODUCT	**C-10 BENCH**
VENDOR	**VICTOR STANLEY**
INVENTORY	12 BENCHES IN HISTORIC DISTRICT
DIMENSIONS	6'WIDTH AND 4' WIDTH 21-7/8"L X 28-7/8"H (SEAT HEIGHT IS 16 3/4")
MATERIALS	2" X 3" BACK AND SEAT SLATS ARE IPE WOOD. DUCTILE IRON END FRAMES. 1-5/16" TUBULAR STEEL RUNG USED FOR ADDITIONAL SUPPORT. STEEL IS PURCHASED FROM AMERICAN ELECTRIC FURNACE MILLS, WITH AT LEAST 98% OF THE STEEL OBTAINED FROM RECYCLED SCRAP METAL.
FINISHES & COLORS	SLATS ARE IN NATURAL FINISH AND END FRAMES ARE IN BLACK POWDER COAT FINISH.
PURCHASE & INSTALLATION	SURFACE MOUNTED. MUST BE ANCHORED IN PLACE WITH 3/8" ANCHOR BOLTS (NOT PROVIDED).

PHOTOS

C-10 BENCH IN OLD TOWN.

SEATING - VICTOR STANLEY C-10 BENCH



VICTOR STANLEY C-10 BENCH

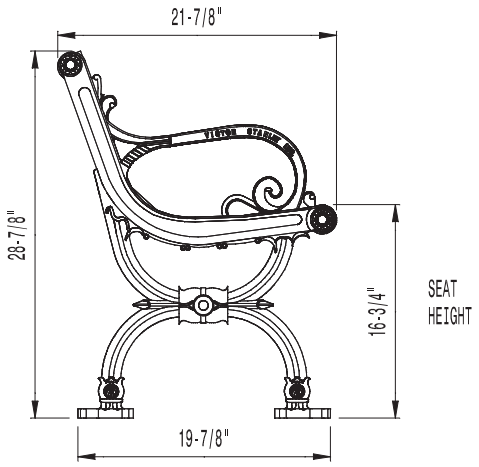
CITY BOUNDARY

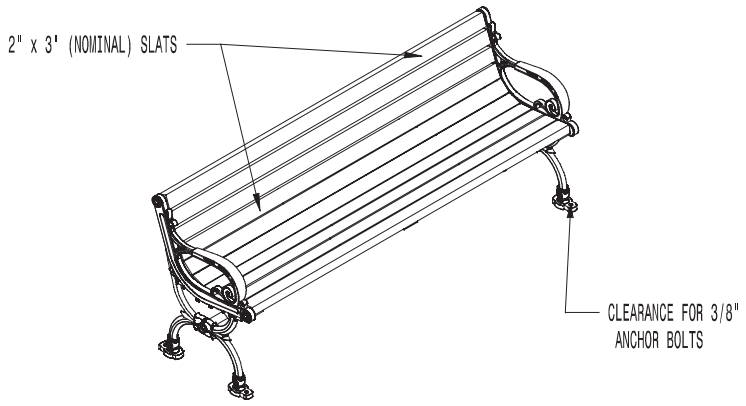
0 0.25 0.50 1 MILES

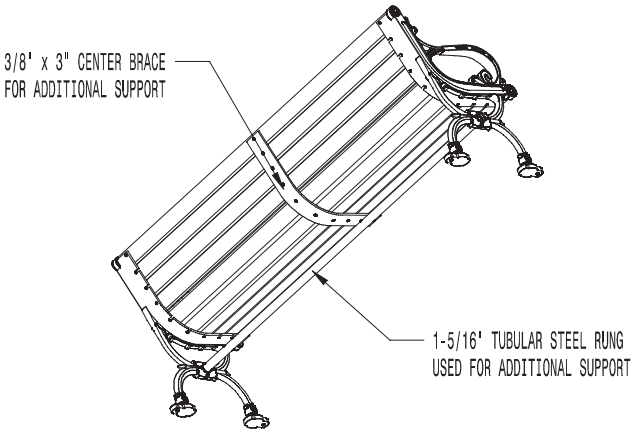
VICTOR STANLEY, INC.®
-Manufacturers of Quality Site Furnishings since 1962-

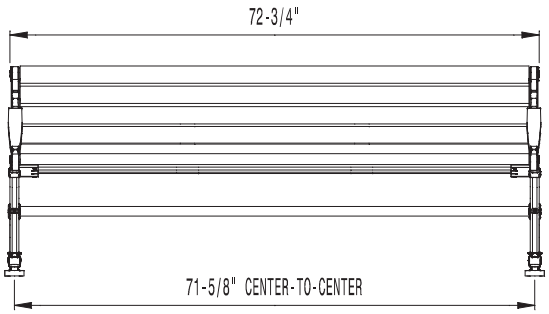
P.O. DRAWER 330 - DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL (301) 855-8300 - FAX (410) 257-7579
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM

* ALL DIMENSIONS ARE IN INCHES *









CENTER-TO-CENTER DISTANCES ARE APPROXIMATE
(VARIATIONS IN CASTINGS ARISE FROM DIFFERENT RATES OF COOLING)

AVAILABLE OPTIONS:

POWDER COATING
- 10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS, CUSTOM COLORS (INCLUDING THE RAL RANGE)

SLAT TYPES
- WOODS: PHILIPPINE MAHOGANY AND IPE
- 2nd SITE SYSTEMS® REINFORCED RECYCLED PLASTIC SLATS
  - COLORS: GRAY, MAPLE, CHERRY, AND WALNUT
  - (NOT AVAILABLE IN 8-FOOT LENGTHS)

INTERMEDIATE & CENTER ARMRESTS
- 4', 6', & 8' AVAILABLE WITH OPTIONAL ARMRESTS

LENGTHS
- STANDARD 4'
- STANDARD 6' LENGTH SHOWN
- STANDARD 8'

NOTES:
1. DUCTILE IRON CASTINGS COME WITH A TEN YEAR WARRANTY AGAINST BREAKAGE.
2. DRAWING NOT TO SCALE. DO NOT SCALE DRAWINGS.
3. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
4. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
5. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
6. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
7. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
8. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.

C-10

CLASSIC SERIES

BENCH WITH DUCTILE IRON END FRAMES
SHOWN: STANDARD 6-FOOT LENGTH

REV. 8/28/12 DRAWN L.D.L. 2012-887

Takoma Park Streetscape Manual

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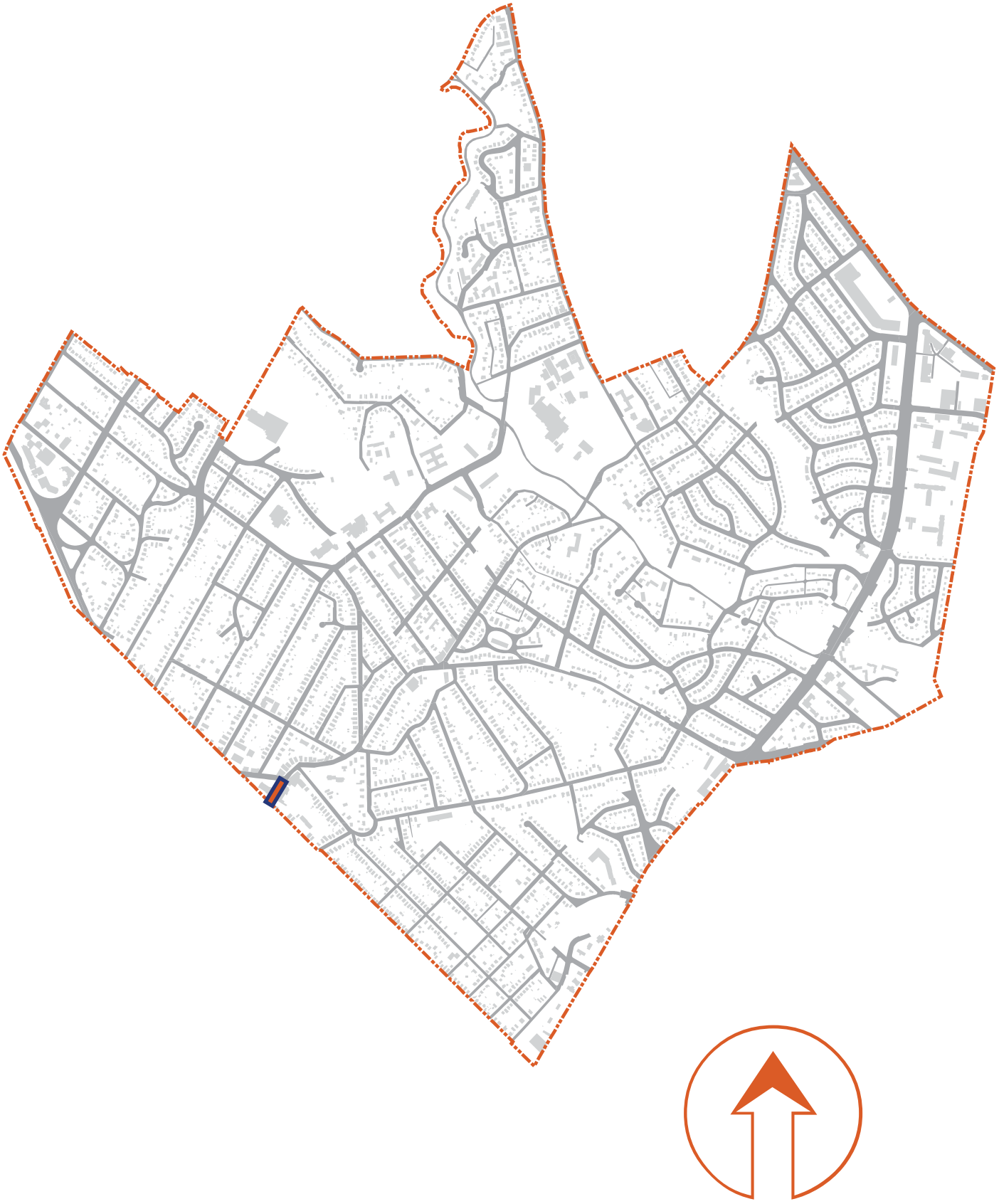
BOLLARDS

PRODUCT	**R-7542 DECORATIVE BOLLARD**
VENDOR	**RELIANCE FOUNDRY**
INVENTORY	72 BOLLARDS ON LAUREL AVENUE MEDIAN
DIMENSIONS	30”H X 10”D (AT BASE).
MATERIALS	DUCTILE IRON.
FINISHES & COLORS	BOLLARDS ARE ALL FINISHED IN BLACK POWDER COAT PAINT.
PURCHASE & INSTALLATION	INSTALLED IN ANCHOR CASTINGS IN NEW CONCRETE.

PHOTOS

R-7542 DECORATIVE BOLLARD ALONG LAUREL AVENUE MEDIAN, CONNECTED WITH CHAINGS ALONG TREE BOXES TO PROTECT PLANTINGS.

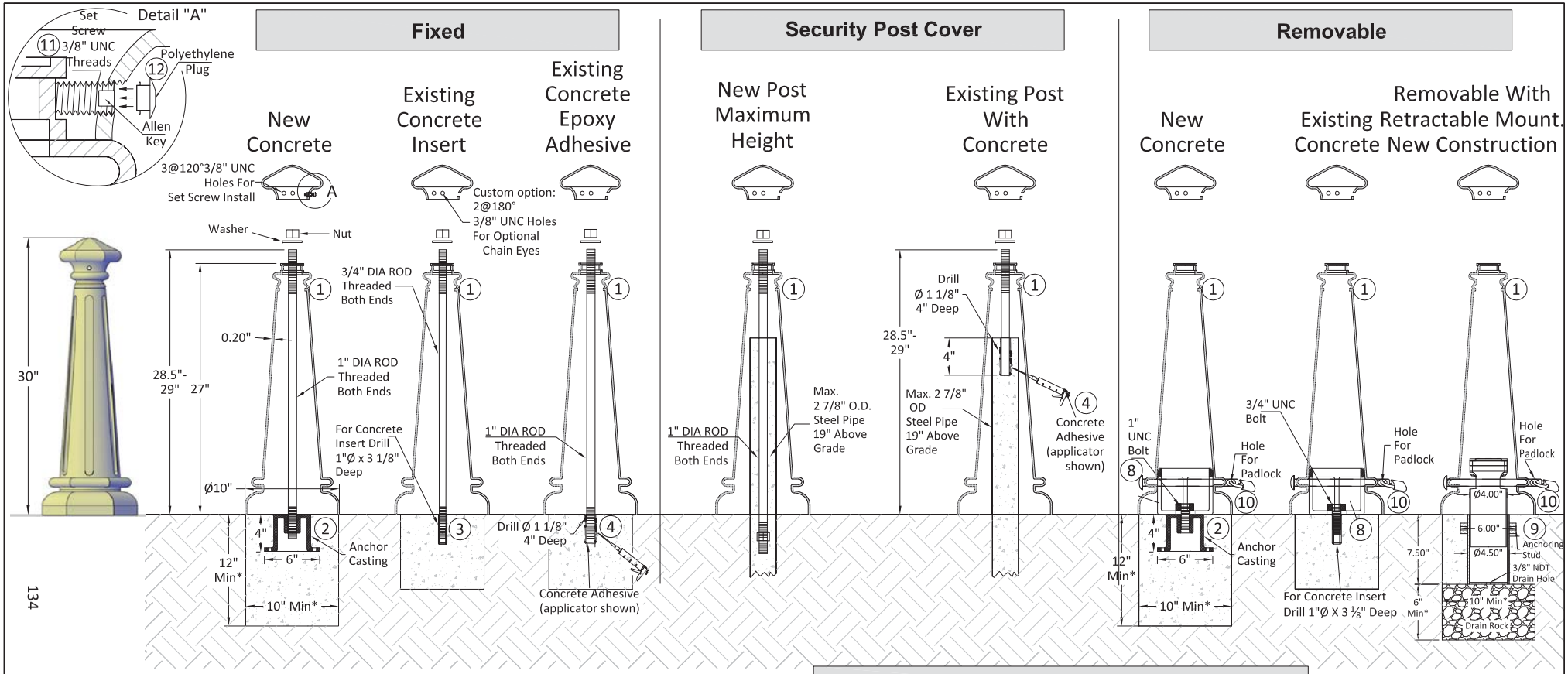
BOLLARDS - RELIANCE FOUNDARY R-7542



PRINCETON BOLLARDS

CITY BOUNDARY

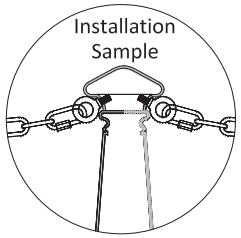
0 0.25 0.50 1 MILES



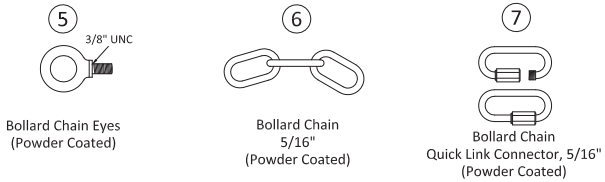
134

* Minimum foundation size depends on local soil conditions, weather conditions & engineering requirements

Installation Sample



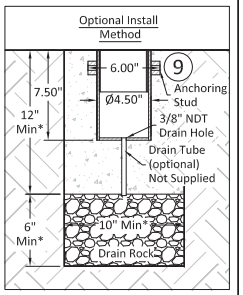
5/16" Chain Accessories



Bollard Chain Eyes (Powder Coated)

Bollard Chain 5/16" (Powder Coated)

Bollard Chain Quick Link Connector, 5/16" (Powder Coated)



Mount Options & Accessories

Item	Part Number	Description	Material
2	R-7500-AN	Anchor Casting	Ductile Iron (ASTM A536, Grade 65-45-12)
3	INSERT 1	Concrete Insert, 1"	Steel - Plated
4		Concrete Adhesive	Concrete Adhesive
5	7500-E	Chain Eye Loop	Steel - Foged
6	R-7500-CH	Chain, 5/16" (Measured In Feet)	Steel - Plated
7	R-7500-Q	Chain Quick Link	Steel - Plated
8	R-7500	Removable Mount	Steel
9	R-7000	Removable/Retractable Mount	Steel
10	Padlock 936	Padlock, marine grade (OPTIONAL)	Brass; chrome plated with stainless steel shackle
10	Padlock 835	Padlock (OPTIONAL)	Brass
11		Set Screws, 3/8" x 3/8", 3 pcs.	Stainless Steel
12		Polyethylene Plug, 3/8" - Black, 3 pcs.	Polyethylene

Bollard

Item	Part Number	Description	Material	Weight
1	R-7542	Bollard post	Ductile Iron	77 lbs.

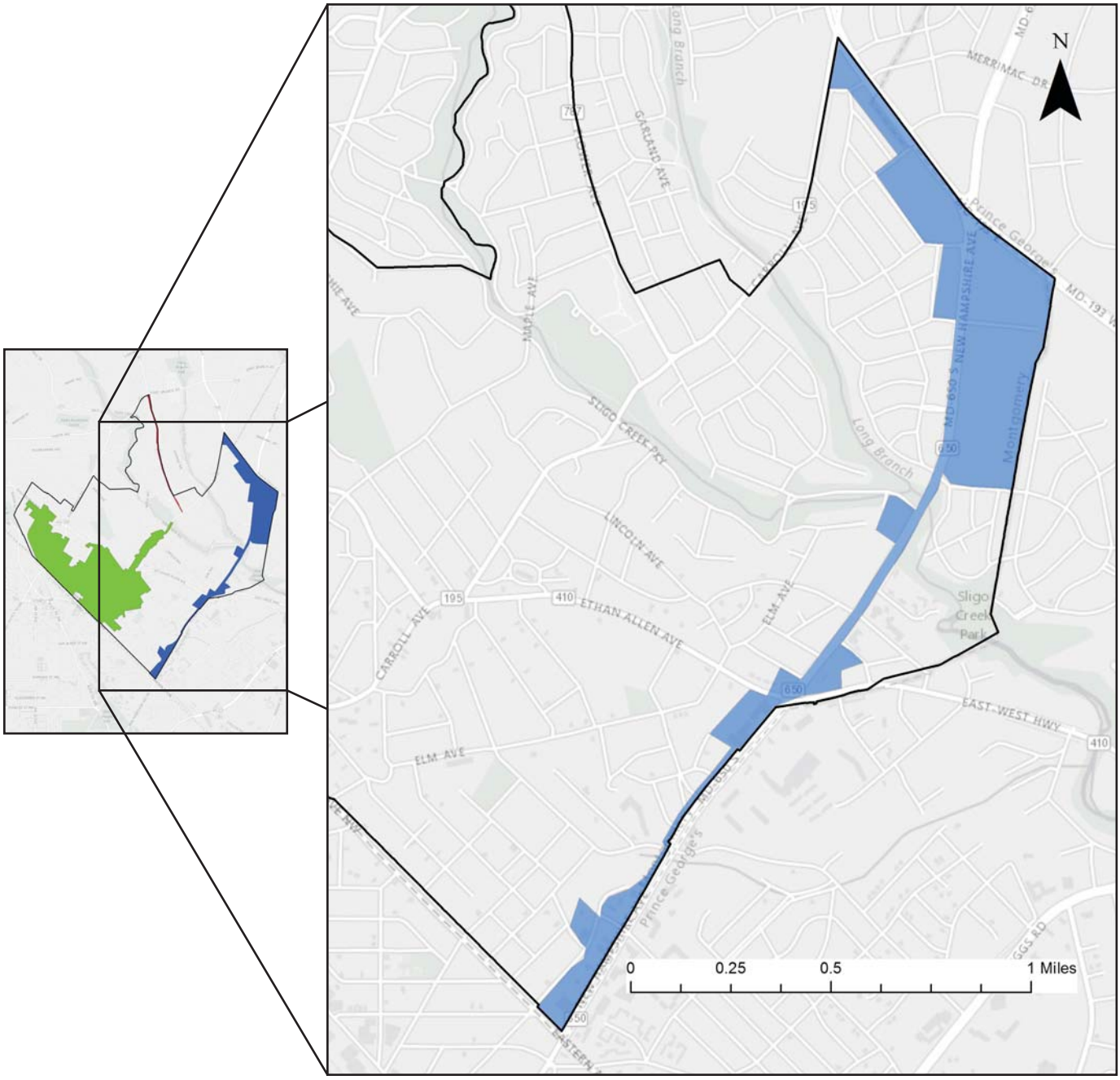
REV	DATE	DESCRIPTION	DR

RELIANCE FOUNDRY CO. LTD.
Unit 207, 6450 - 148 Street, Surrey, BC, Canada V3S-7G7
1-888-735-5680 - info@reliance-foundry.com
www.reliance-foundry.com | www.bollards.ca | www.bike-parking.ca

Bollard, Model R-7542

SCALE	NTS	DRAWING NUMBER	SIZE	REV.
DESIGN		R-7542	A	A
DATE	12/14/2012			

The New Ave Streetscape Elements



The New Hampshire Avenue corridor from Eastern Avenue to University Boulevard, a.k.a. "the New Ave," comprises the City's largest commercial districts along high-traffic arterial roadways. The New Ave was the focus of a branding effort in 2006 characterized by vibrant colors that reflect the cultural traditions of the communities that live and work along the corridor. The vibrant colors and playful design of seating and waste receptacles on New Hampshire Avenue are consistent with the New Ave brand. Improvements initiated in 2008 and recommendations in the New Ave Streetscape Standards developed by the City in 2012 provide the basis for the New Ave aesthetic.

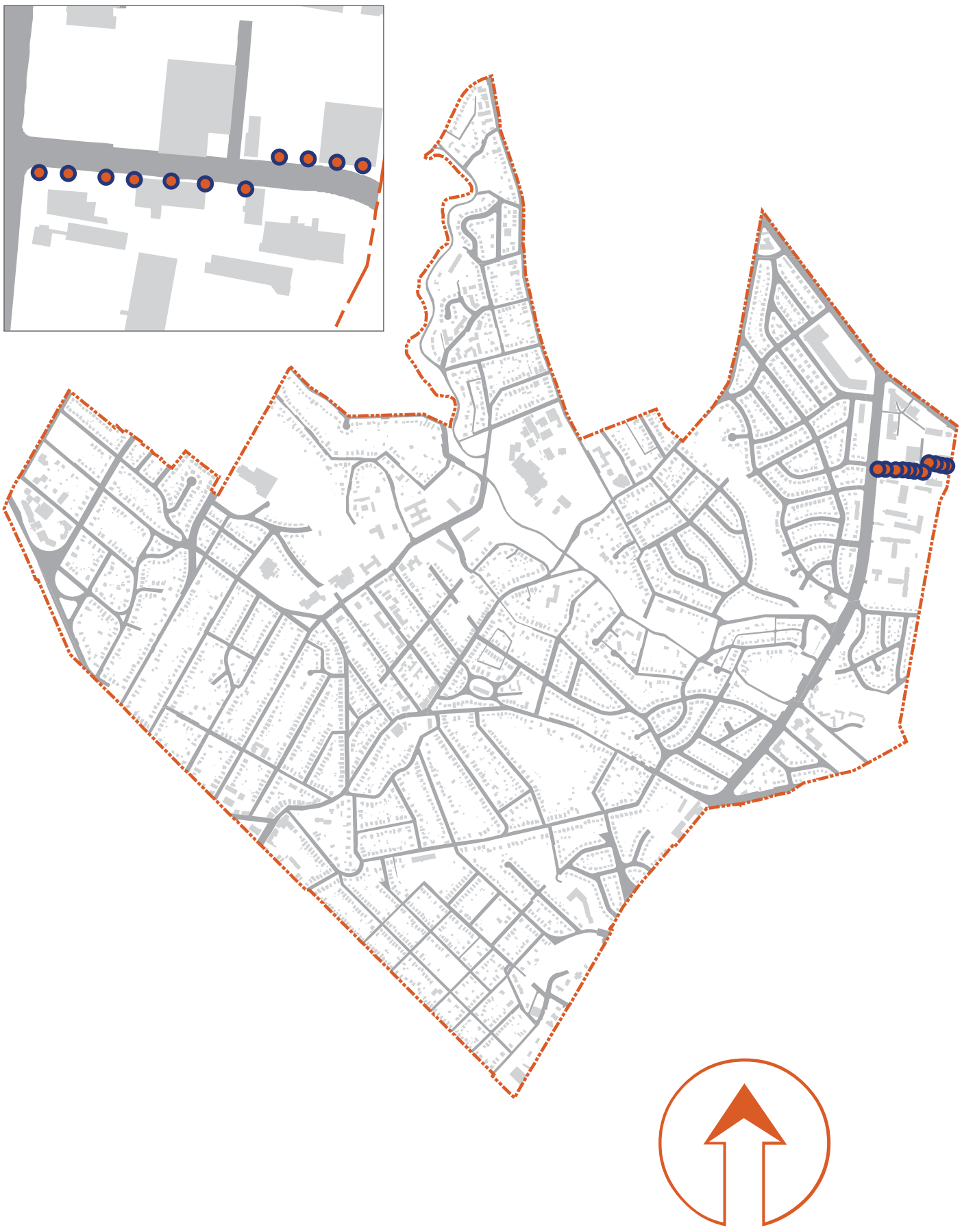
LIGHTING

PRODUCT	**C4325 (ICETRONE LAMP LUMINAIRE), C4325A (LED MODULE LUMINAIRE), CP4325 (POLE)**
VENDOR	**HADCO**
INVENTORY	11 LUMINAIRES AND POLES
DIMENSIONS	15’ 4-5/16”H X 17”D (POLE IS 12’H. GLOBE IS 38.28”H X 16.67”D.)
MATERIALS	POLE IS 4“ STRAIGHT FLUTED WITH 3” TENON 1/8“ THICK WALLED ALUMINUM WITH GFI DUPLEX OUTLET. BASE IS CAST ALUMINUM. LUMINAIRE IS ALUMINUM AND GLASS.
FINISHES & COLORS	BLACK POWDER COATING AND GLASS.
PURCHASE & INSTALLATION	LUMINAIRE MUST BE MOUNTED TO POLE UPON RECEIPT. UNIT TO BE INSTALLED ON CONCRETE BLOCK. NEW INSTALLATIONS AND REPLACEMENT LUMINAIRES ARE TO BE DARK-SKY FRIENDLY.

PHOTOS

C4325 LUMINAIRE AND CP4325 POLE ALONG HOLTON AVE.

LIGHTING - HADCO C4325 LUMINAIRE



HADCO LUMINAIRE

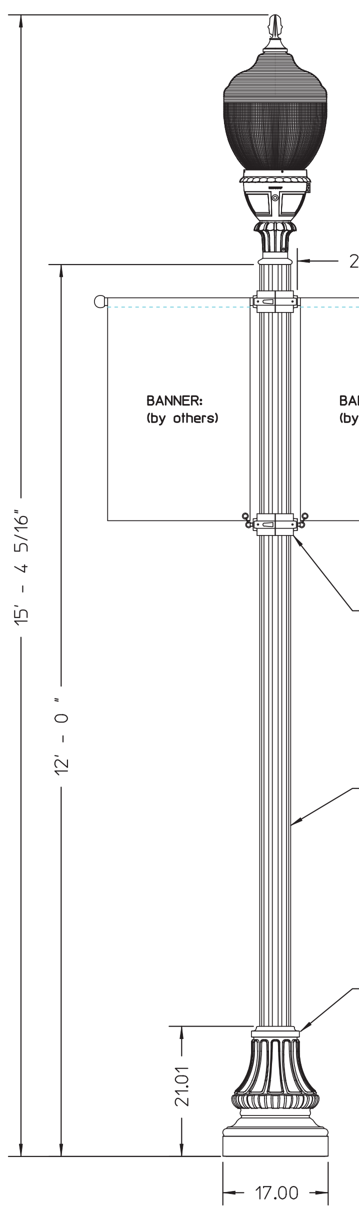
CITY BOUNDARY

MILES

0 0.25 0.50 1

Ordering Guide:

C4325: LUMINAIRE - ICETRONE LAMP
C4325A: LUMINAIRE - LED MODULE
CA4325: TWIN BANNER ARM
CA4325A: TWIN TIE-DOWN BRACKET
CP4325: POLE



Color: Black

TWIN BANNER ARM: 24" LG. EXTRUDED ALUMINUM W/ CAST ALUMINUM END CAPS & 5" CLAMP-ON COLLAR

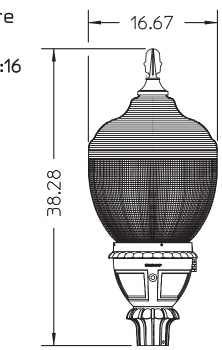
TWIN TIE-DOWN BRACKET: CAST ALUMINUM #356HM ALLOY, 5" CLAMP-ON COLLAR

POLE: 5" ROUND STRAIGHT FLAT FLUTED W/ 3" O.D. TENON 0.188" WALL THICKNESS 6005-T5 ALUMINUM ALLOY

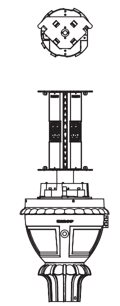
BASE: CAST ALUMINUM #356HM ALLOY W/ ACCESS COVER

BASE DETAIL: REFERENCE TEMPLATE #T01000385

Luminaire Detail Scale 1:16



Top View LED Module Assy



Luminaire Matrix

OPTICS:
_ TYPE III, WIDE BODY, ACRYLIC
X TYPE V, WIDE BODY, ACRYLIC

FASTENERS:
_ HEX HEAD BOLTS
X ALLEN HEAD SCREWS

COLOR:
X BLACK
_ WHITE
_ VERDE
_ BRONZE
_ GREEN
_ GRAY

PHOTO CONTROL:
X BUTTON-EYE
_ TWIST-LOCK RECEPT.
_ NONE

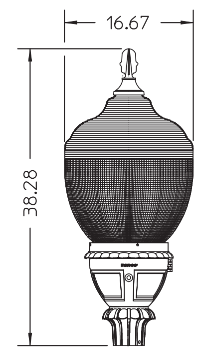
COLOR TEMPERATURE: (specify)
_ 3000K
_ 4000K
_ 5000K

SOURCE/LUMENS
_ 3000 LM
X 5500 LM

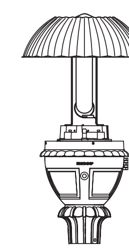
DIMMING CONTROLS:
_ INTERNAL CONTROL RECEPT.
_ PANEL CONTROL
X NONE

LED MODULE SPECIFICATIONS:
- 120-277 VAC INPUT (auto sensing).
- 60,000 HOURS @ 70° LUMEN MAINTENANCE.
- 80 TOTAL LEDS (100 lumens/watt ea).
- 4 CAST ALUMINUM HEAT SINKS. IP66 RATED.
- LED EFFICACY: 100 LUMENS/WATT.
- >70 CRI/5500K CCT NOMINAL.
- APPROX. 50% ENERGY SAVINGS VS. COMPARABLE HID.

Luminaire Detail Scale 1:16



Lamping & Reflector Detail



Luminaire Matrix

GLOBE:
_ TYPE III, WIDE BODY, ACRYLIC
X TYPE V, WIDE BODY, ACRYLIC

FASTENERS:
_ HEX HEAD BOLT
X ALLEN HEAD SCREWS

COLOR:
X BLACK
_ WHITE
_ VERDE
_ BRONZE
_ GREEN

REFLECTOR:
_ SM REFLECTOR
_ SM REFLECTOR W/ H.S.S.
_ FULL TOP W/ H.S.S.
_ H.S.S.
_ INTERNAL LOUVER ASSY.
X FULL TOP
_ NONE

PHOTO CONTROL:
X BUTTON-EYE
_ TWIST-LOCK RECEPT.
_ NONE

SOCKET:
_ MEDIUM
_ MOGUL
_ INDUCTIVE

WATTAGE:
_ 70W MH
X 100W ICETRON
_ 150W MH
_ 175W MH
_ 250W MH
_ 320W MH
_ 50W MH
_ 70W HPS
_ 100W HPS
_ 150W HPS
_ 200W HPS
_ 250W HPS
_ 310W HPS
_ 55W INDUCTION
_ 85W INDUCTION
_ 165W INDUCTION

VOLTAGE:
X 120V
_ 208V
_ 240V
_ 277V
_ 347V

PRODUCT APPROVALS	
HADCO	SMK
CUST.	

NOTICE:
THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING

Full Specification (Complete Assembly) Drawing

HADCO® is a Philips group brand

100 Craftway P.O. Box 128
Littlestown, Pennsylvania 17340-0128
Phone 717-359-7131
Fax 717-359-9515
www.hadco.com

JOB NAME: City of Tacome Park – Holton Lane	
REP. TERRITORY: 14	DRAWN BY: SMK
SCALE: 1:20	DATE: 04/30/09
DRAWING NUMBER: C4325–DWG02	
REP: Lightoller–Baltimore	
REV: A	PCN: 09–034
BY: .	DATE: .

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SEATING

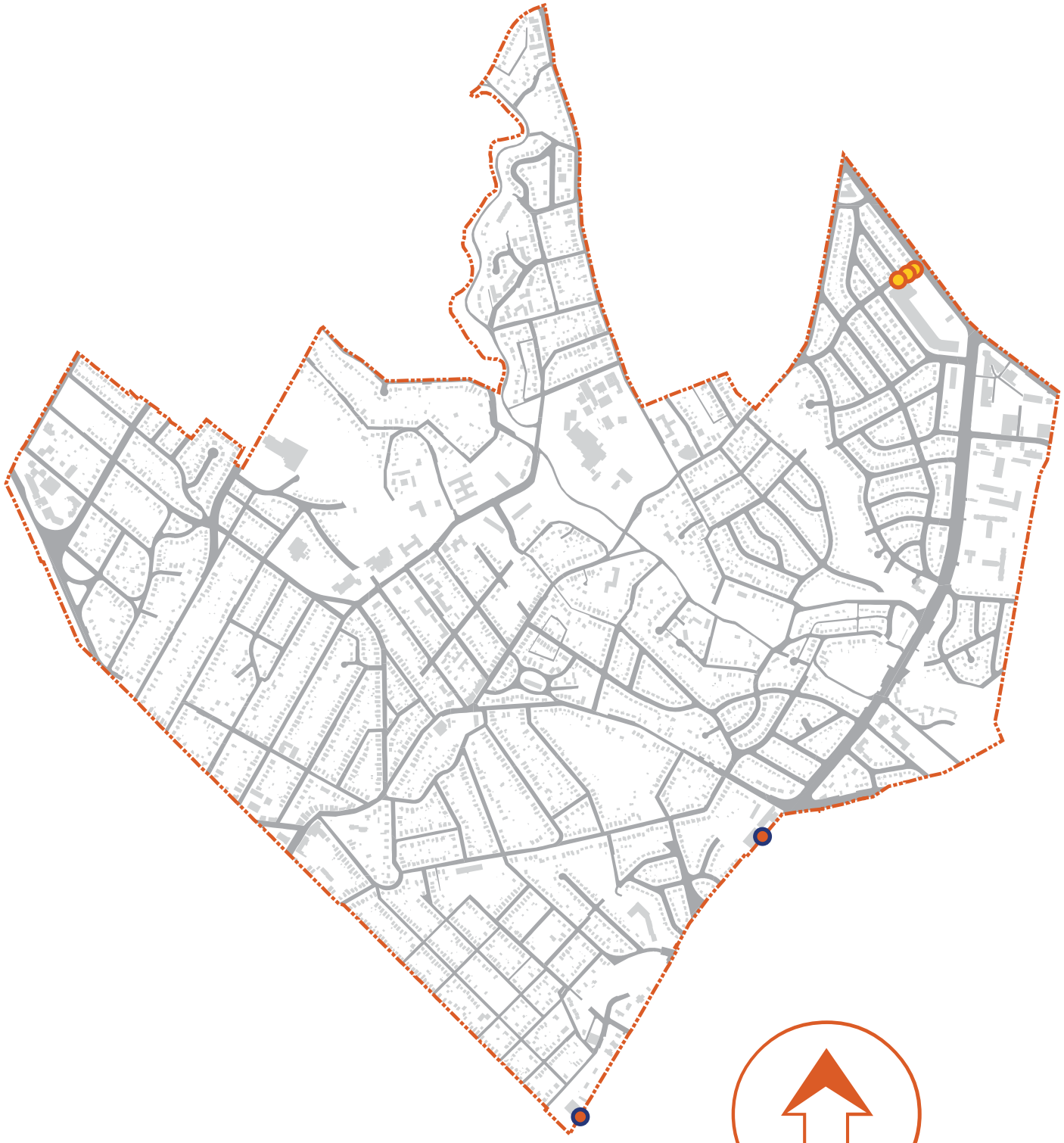
PRODUCT	**TOWNE SQUARE BENCH**
VENDOR	**LANDSCAPE FORMS**
INVENTORY	5 BENCHES ON THE NEW AVE: - 2 CRANBERRY - 3 OCEAN BLUE
DIMENSIONS	70”W X 27“L X 32”H (SEAT HEIGHT IS 16-1/4” AND SEAT WIDTH IS 19-3/8”)
MATERIALS	SUPPORTS AND SEAT AND BACK PANELS ARE MADE OF STEEL. ALL PARTS ARE 100% RECYCLABLE AND MADE OF A MINIMUM OF 88% RECYCLED MATERIAL CONTENT.
FINISHES & COLORS	BENCHES ARE IN FOUR POWDER COAT COLORS; CRANBERRY, OCEAN BLUE, GRASS, AND BLACK. SEE THE NEW AVE STREETSCAPE STANDARDS FOR RECCOMENDED LOCATION AND COORDINATION OF COLORS.
PURCHASE & INSTALLATION	TOWNE SQUARE BENCHES ON THE NEW AVE ARE SLATTED (NOT PERFORATED), WHICH MUST BE SPECIFIED AT TIME OF PURCHASE.

PHOTOS

TOWNE SQUARE BENCH (CRANBERRY) AT A BUS STOP ON NEW HAMPSHIRE AVENUE. ADJACENT RECEPTACLES ARE PAINTED TO CORRESPOND WITH THE NEW AVE BRANDING.

TOWNE SQUARE BENCHES (OCEAN BLUE) ON ANNE STREET AT LOCATION OF WEEKLY CROSSROADS FARMERS MARKET.

SEATING - LANDSCAPE FORMS TOWNE SQUARE BENCH



Instructions

Assembly
Installation
Operation

7/2007

Towne Square™ Bench

HANDLE WITH CARE! Pangard II® polyester powder coat is a strong, long-lasting finish. Protect this finish from damage during installation. Use touch-up paint to repair any finish abrasions.

Towne Square benches are shipped with freestanding glides that may be left in place for surface mounting.

Recommended procedure for surface mounting:

Each bench has four mounting plates that can accept anchors up to 3/8" thread size. Although the anchoring procedure and hardware are the responsibility of the installer, we suggest the following:

1. Select corrosion resistant anchors appropriate for the surface. Your hardware store or builders supply may be able to recommend the proper hardware, tools, and safety equipment.
2. Place the bench in the desired position.
3. Mark hole locations.
4. Move the bench to allow access for drilling holes.
5. Install the anchors and bench according to the anchor manufacturer's instructions.

431 Lawndale Avenue, Kalamazoo, MI 49048
PH: 800.521.2546, PH: 269.381.0396, FX: 269.381.3455

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SEATING

PRODUCT **PORCH ROCKER**

VENDOR **SEASIDE CASUAL**

INVENTORY 6 ROCKING CHAIRS AT TWO BUS STOPS ON NEW HAMPSHIRE AVENUE:
- 2 CITRUS
- 2 HOT PINK
- 1 POOL (BLUE)
- 1 LIME

DIMENSIONS 31 5/8”L X 26 1/8”W X 44 3/4”H
(SEAT HEIGHT IS 16 1/4” AND SEAT WIDTH IS 19 3/8”)

MATERIALS CHAIRS FABRICATED FROM ENVIROWOOD, AN ALL-WEATHER MARINE GRADE HIGH DENSITY POLYETHYLYNE POLYMER.

FINISHES & COLORS CHAIRS ARE ALL IN BLUE, GREEN, ORANGE, OR PINK. COLORS WERE SELECTED TO COORDINATE WITH THE NEW AVE BRANDING.

PURCHASE & INSTALLATION ROCKERS SHOULD BE CHAINED TO A PERMANENTLY AFFIXED OBJECT IN ORDER TO PREVENT THEFT.

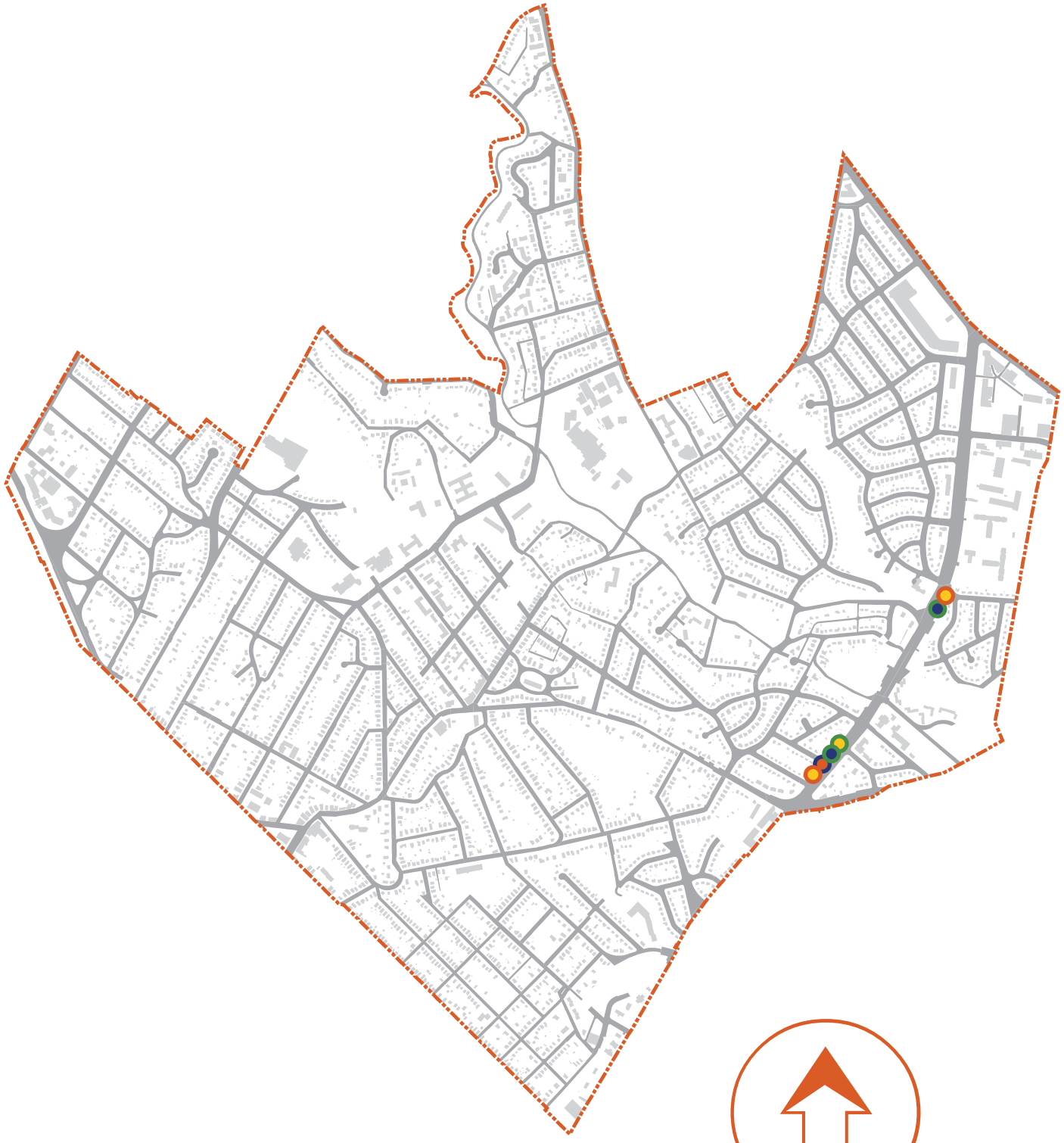
ENSURE INSTALLATION/REPLACEMENTS ARE COMPATIBLE WITH ADA BUS STOP GUIDELINES.

PHOTOS

COLORFUL AND ENGAGING PORCH ROCKERS REPLACE BENCH SEATING AT A FEW BUS STOPS ON NEW HAMPSHIRE AVENUE.

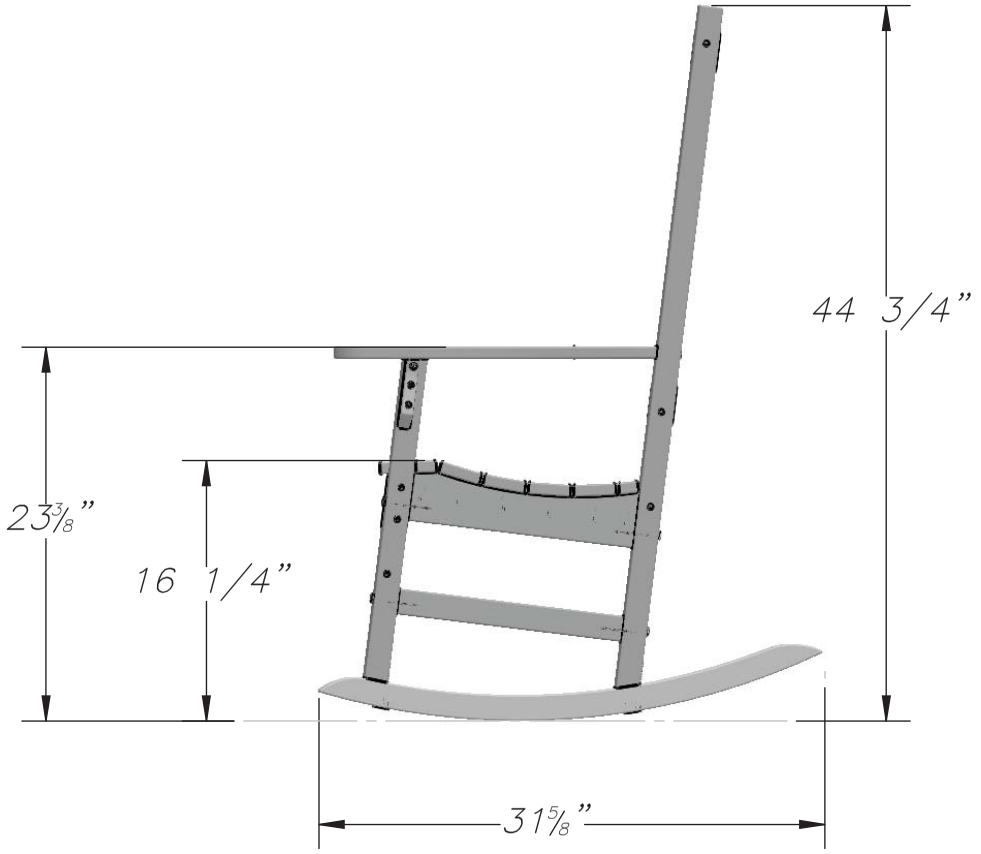
PORCH ROCKERS IN ALL FOUR COLORS AT THE BUS STOP ON NEW HAMPSHIRE AVENUE AND DEVONSHIRE ROAD.

SEATING - SEASIDE CASUAL PORCH ROCKER



POOL (BLUE) ROCKING CHAIR
LIME ROCKING CHAIR
CITRUS ROCKING CHAIR
HOT PINK ROCKING CHAIR
CITY BOUNDARY

0 0.25 0.50 1 MILES



UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16	DRAWN	CDA	2/5/2014
	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL			
FINISH			
DO NOT SCALE DRAWING			

SEASIDE CASUAL
MADE IN RHODE ISLAND

DESCRIPTION:

PORCH ROCKER

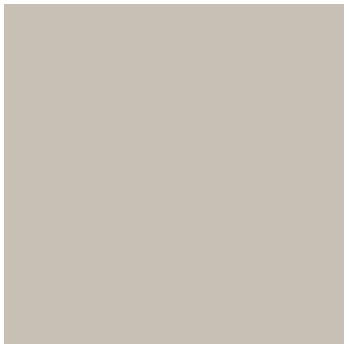
SIZE	PART NO.	REV
A	036	

SCALE: 1:12	WEIGHT: 43.69	SHEET 1 OF 1

Colors

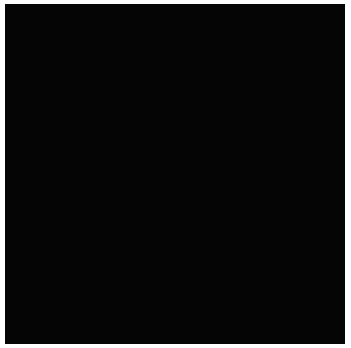
Leaf

Natural



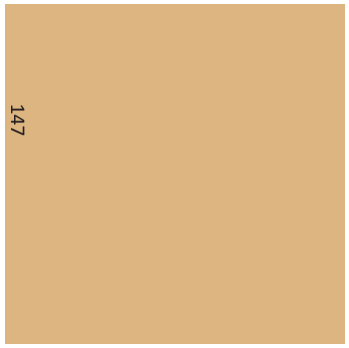
Pool

Black

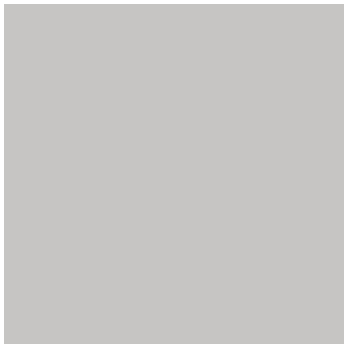


Chestnut

Sandalwood



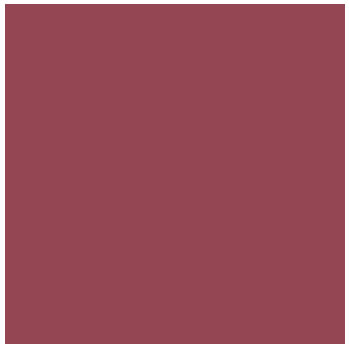
Grey



Harvest

Citrus

Cranberry

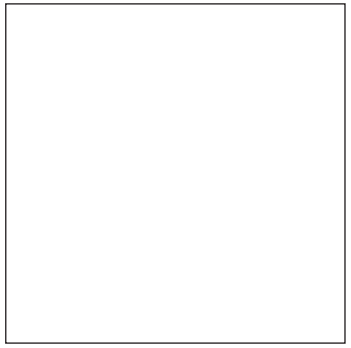


Cherry

Green

Slate

White



Hot Pink

SEATING

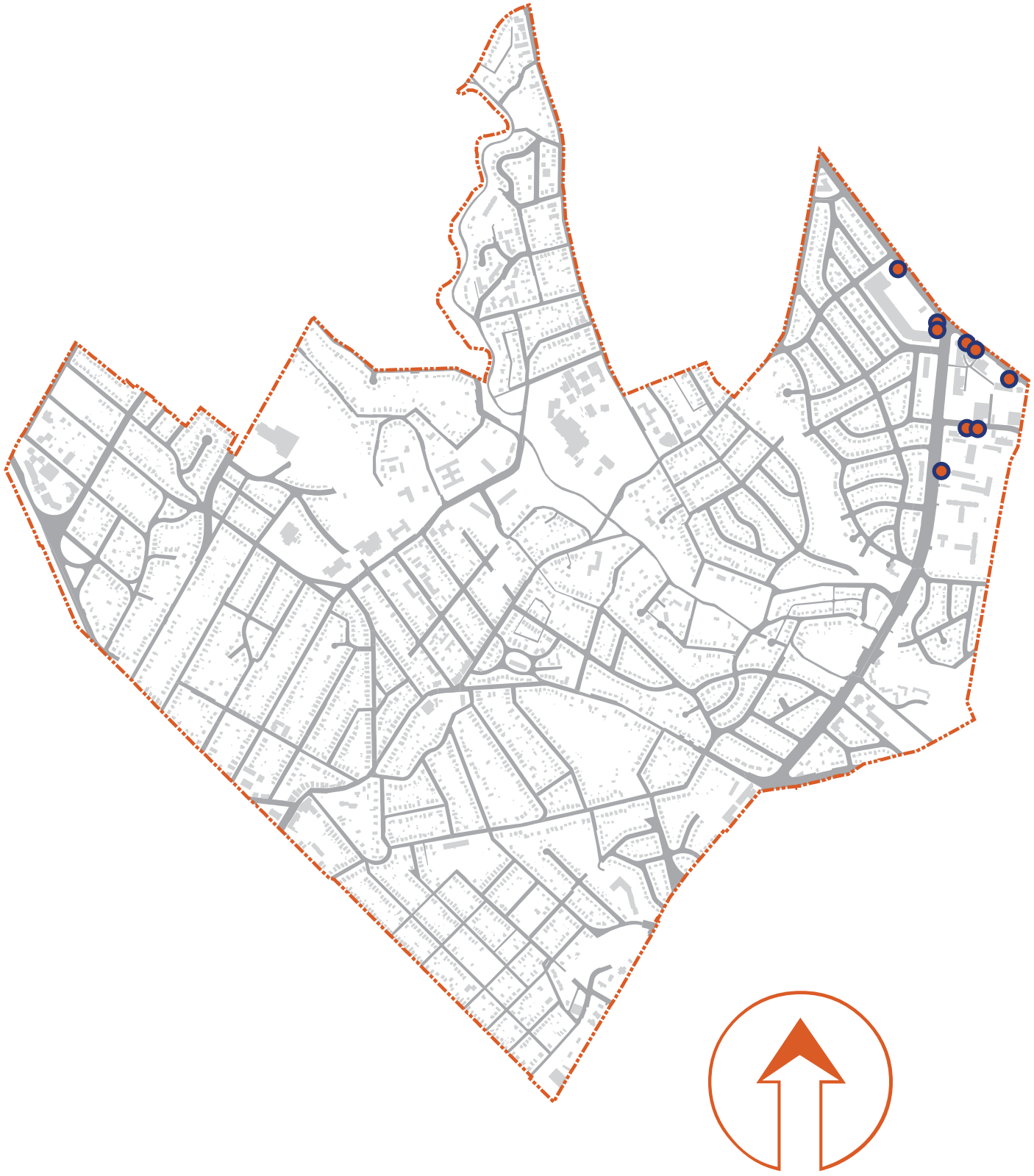
PRODUCT	**DEWART SERIES BENCH (DE1111C)**
VENDOR	**URBANSCAPE**
INVENTORY	9 BENCHES
DIMENSIONS	72”W X 22-3/4”L X 37-1/4”H (SEAT HEIGHT IS 17-1/2” AND SEAT DEPTH IS 16-1/2”)
MATERIALS	BENCH LEGS ARE CONSTRUCTED OF 319 ALUMINUM CASTING. SLAT SEAT AND BACK, MOUNTING BRACKETS, AND REINFORCING BRACES ARE CONSTRUCTED OF 10 GA X 2 FLAT STEEL.
FINISHES & COLORS	BENCHES ARE ALL IN OCEAN BLUE POWDER COAT FINISH.
PURCHASE & INSTALLATION	DEWART SERIES BENCHES ON THE NEW AVE ARE SLATTED (NOT PERFORATED), WHICH MUST BE SPECIFIED AT TIME OF PURCHASE. 6’ BENCH WITH BACK GROUND SPACE REQUIREMENTS ARE 22-3/4“ X 72”.

PHOTOS

OCEAN BLUE DEWART BENCH NEXT TO COMMERCIAL WAYFINDING KIOSK.

OCEAN BLUE DEWART BENCH ON HOLTON AVENUE WITH COORDINATING NEW AVE RECEPTACLES.

SEATING - URBANSCAPE DEWART SERIES BENCH



DEWART SERIES DE1111C BENCH

CITY BOUNDARY

0 0.25 0.50 1 MILES

Dewart Series

model no:

DE1111C, DE1113C
DE1411C, DE1413C

urbanscape®
INSTRUMENTS TO SHAPE PUBLIC SPACE

PORTABLE & SURFACE MOUNT W/BACK AND W/O BACK BENCH
SQUARE AND ROUND PERFORATED, AND SLAT

customer service:

ASSEMBLERS: If you find any parts missing or damaged, or if you're having difficulty assembling your furniture/equipment, call us at:

* Before calling, have your product model number available.

1–800–253–8619 (Inside U.S.A.)
260–352–2102 (Outside U.S.A.)
Monday thru Friday,
8:00 AM – 4:30 PM Eastern Time
(EXCEPT HOLIDAYS)

Any correspondence concerning our product should be sent directly to our Customer Service Manager at:

URBANSCAPE
a division of Wabash Valley Mfg., Inc.
505 E. Main Street
P.O.Box 5
Silver Lake, IN 46982 U.S.A.
FAX: 260–352–2160
or email: cs@wabashvalley.com

maintenance:

Regular inspection and maintenance of all parts, and fasteners is necessary. Tighten all bolts and nuts. Inspect Tops, Seats, Legs, Braces and Fasteners periodically for wear or vandalism. Replace broken or worn parts immediately or take equipment out of service until repairs are made. Use genuine Urbanscape replacement parts.

KEEP THIS ASSEMBLY/SPECIFICATION SHEET FOR FUTURE REFERENCE.

specifications:

NOTE: We reserve the right to change specifications without notice.

Framework assemblies are finished with powder coating; electrostatically applied and oven cured according to powder manufacturer's specifications. Fasteners are stainless steel to resist corrosion.

BENCH LEGS:
Legs are constructed of 319 aluminum casting.

BENCH SEAT:
The perforated panels are constructed of 12 GA sheet steel. The slat seat is constructed of 10 GA x 2 flat steel. Mounting brackets consists of 10 GA sheet steel. The reinforcing braces consists of 10 GA sheet steel. Leg to bench braces are 15 gage x 1 OD structural steel tubing.

BENCH BACK:
The perforated panels are constructed of 12 GA sheet steel. The slat back is constructed of 10 GA x 2 flat steel. Mounting brackets consists of 10 GA sheet steel. The reinforcing braces consists of 10 GA sheet steel.

GENERAL:
6' Bench w/ back ground space requirements are 22 3/4" x 72". The bench seat is 65 3/8" long x 16 1/2" wide and 17 1/2" to the top the bench's seat.

6' Low Profile bench ground space requirements are 18 1/4" x 72". The bench seat is 65 3/8" long x 18 1/4" wide and 17 3/4" to the top the bench's seat.

Finished to Look Like Wood, but Act Like Metal

Our faux-wood finishes so closely resemble the real thing that it's hard to believe it's metal and not wood. The timeless beauty and tradition of wood without any of the headaches, such as cracking, warping or rotting. For superior strength and rigidity, we add reinforcements to the aluminum extrusions for all of our faux-wood-finished products.

AAMA 2604-05 Certification

Our seven-step powder-coat system exceeds AAMA 2604-05 (American Architectural Manufacturers Association) test specifications—one of the highest in the industry. Our coating stood up to some of the toughest test specifications, including adhesion, abrasion resistance, chemical resistance, corrosion resistance and fade resistance, to ensure that our products will last longer than anyone else's.

AAMA 2604-05 test Procedures and Performance Requirements

Test Requirements	Compliance
Salt-Spray Resistance: 3,000 hours per ASTM B 117	Yes
Weathering: Color Retention, 5-year south Florida sun, per ASTM D 2244 with a maximum 5deltaE change	Yes
Weathering: Chalk resistance, 5-year south Florida sun, per ASTM D 4214 with a max rating of 8	Yes
Weathering: Gloss Retention, 5-year south Florida sun, per ASTM D 523 with a min of 30%	Yes
Weathering: Resistance to Erosion, 5-year south Florida sun, with less than 10% film loss	Yes
Chemical Resistance: Muriatic Acid, Mortar, Nitric Acid, Detergent and Window Cleaner	Yes
Dry Film Hardness per ASTM D 3363 with no rupture	Yes
Adhesion: Dry Adhesion, Wet Adhesion and Boiling Water Adhesion using the cross hatch method with 0% failure	Yes

Seven Steps to Long-Lasting Furniture: Our Superior Powder-Coating Process

What's responsible for the good looks and durability of all our products? Our seven-step powder-coating process, which is unlike any other in the industry. While other companies also offer powder-coated products, our seven-step process ensures the highest quality and longevity for our products.

STEP 1—Shot-Blasting to White Metal
First, all of our metal is cleaned to white metal. We strip it to its purest form using our state-of-the-art shot-blast system. This process removes all the impurities from the metal, especially at the weld joints. It's more effective than traditional acid cleaning and also creates a more textured surface, allowing for better adhesion of the powder coat.

STEP 2—Five-Stage Chemical Pre-Treatment
Next, the metal goes through a five-stage chemical pre-treatment cleaning process. It is etched, rinsed and cleaned to eliminate any residue, then it's sealed—further promoting adhesion and encouraging corrosion prevention.

STEP 3—Pre-Heating
Prior to coating, the part is pre-heated so that it can be dried, warmed and then sent directly to the spray booth. With the part heated, it draws powder into the joints, corners and hard-to-reach places to ensure complete coating of the entire surface.

STEP 4—Zinc-Rich Epoxy Coating
After the pre-heating, a Zinc-Rich epoxy powder-coating is applied to provide the highest quality of corrosion control. It works as a prime coat to protect the metal from corrosion before it receives its topcoat.

STEP 5—Zinc-Rich Epoxy Coating Gel-Cure
Next, the Zinc-Rich epoxy coating is cured to a gel, allowing the polyester topcoat to combine with the Zinc-Rich epoxy, promoting better adhesion.

STEP 6—AAMA 2604-Compliant Polyester Topcoat
A polyester topcoat is then applied that's specially formulated to meet AAMA 2604 standards for fading, cracking, chalking, gloss retention, erosion resistance and chemical resistance. No one else in the industry uses this high standard of topcoat. It ensures that our products will maintain their beauty and durability for years to come.

STEP 7—Final Cure
Finally, the metal goes through a cure oven, which hardens the topcoat and completes the integrated bonding between the Zinc-Rich epoxy and AAMA 2604-Compliant Polyester Topcoat.

assembly procedures:

IMPORTANT: Assemblers should be reasonably skilled in the assembly of commercial grade/heavy duty fabricated steel equipment.

To ensure proper assembly, it is suggested that you take adequate time to locate and identify each part. To prevent scratching of the finished pieces, we recommend this unit to be assembled on a clean, flat, solid, surface with a drop cloth, allowing plenty of working room. **Also please read the instructions and study the sketches very carefully.** A little extra time spent before assembly will be well worth it in performing a complete, proper assembly. Please note that all parts have been precut and pre–drilled.

During the assembly process leave all bolts and nuts "finger tight", until the entire unit is completely assembled. This allows room for movement to level or adjust all seats, tops, benches, framework and braces if necessary. **After final adjustment and leveling, permanently tighten all nuts, bolts and fasteners.**

NOTE: THESE INSTRUCTIONS ARE FOR ALL BENCHES.

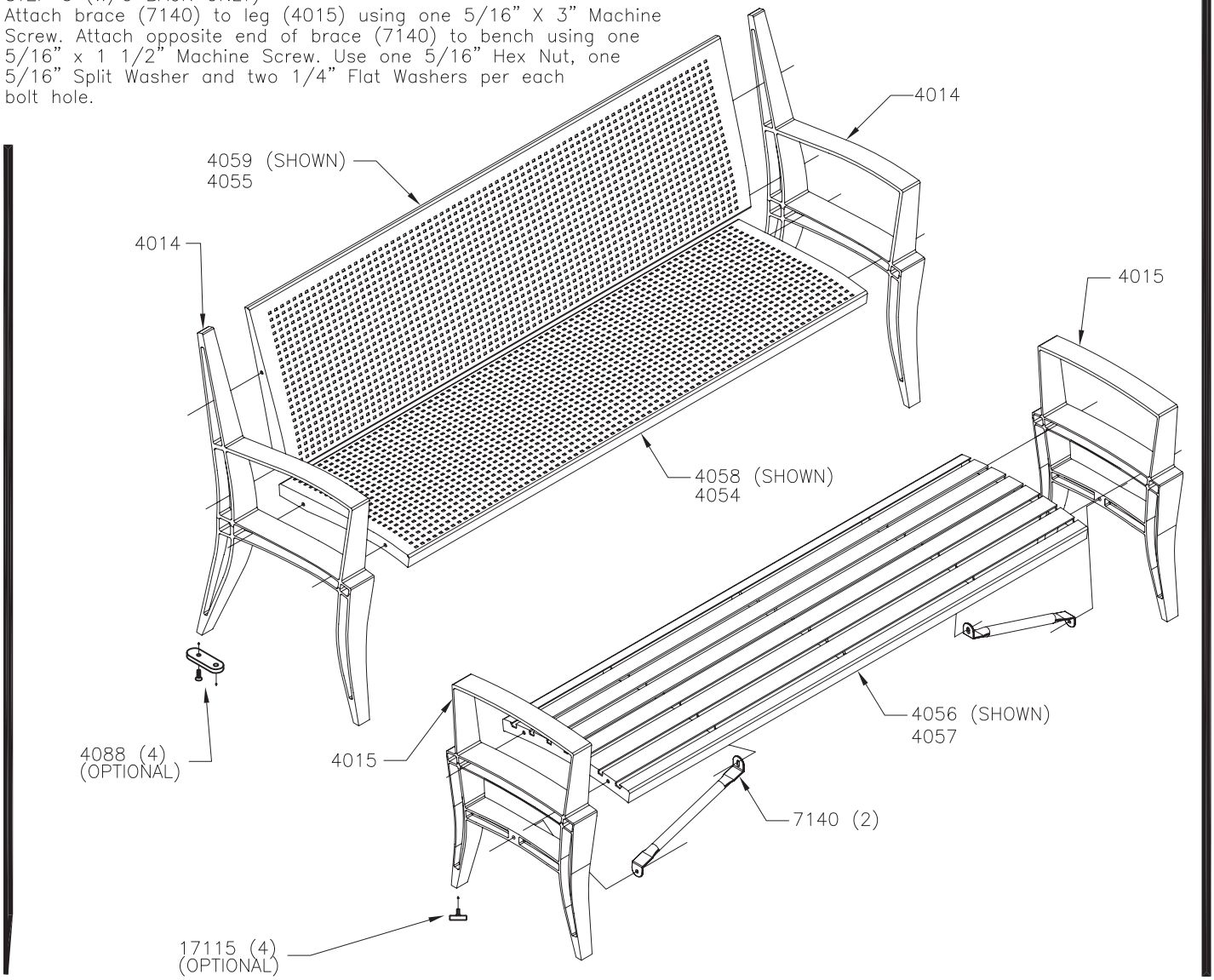
STEP 1
Attach seat (4054, 56, 57, 58) to leg (4014,4015) using one 5/16" X 2 1/2" Machine Screw with one 5/16" Split Washer and one 1/4" Flat Washer per each bolt hole.

STEP 2
Attach back (4055,4059) to leg (4014) using one 5/16" X 3" Machine Screw at bottom hole and one 5/16" x 2 1/2" Machine Screw at top hole. Use one 5/16" Hex Nut with one 5/16" Split Washer and one 1/4" Flat Washer per each bolt hole.

STEP 3
Repeat STEPS 1 and 2 to complete installation for opposite side.

STEP 4
Level the seat and back, tighten with proper tools.

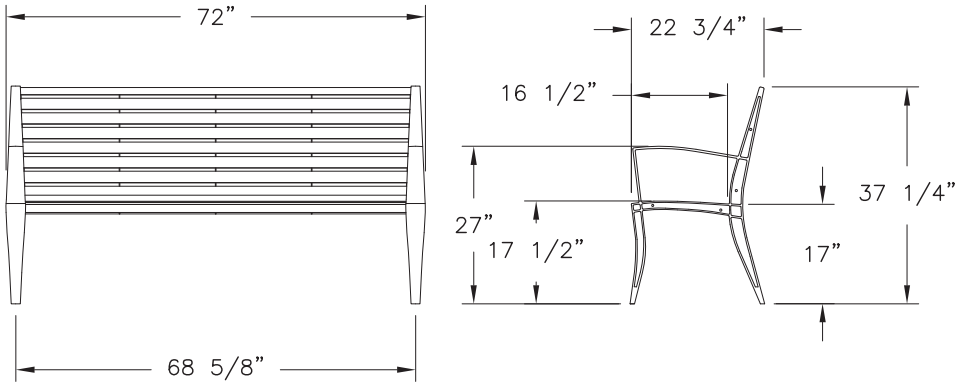
STEP 5 (W/O BACK ONLY)
Attach brace (7140) to leg (4015) using one 5/16" X 3" Machine Screw. Attach opposite end of brace (7140) to bench using one 5/16" x 1 1/2" Machine Screw. Use one 5/16" Hex Nut, one 5/16" Split Washer and two 1/4" Flat Washers per each bolt hole.

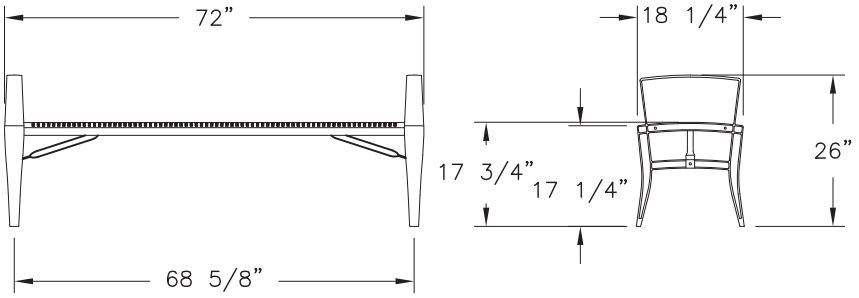


installation:

WARNING: The proper installation for Urbanscape products may depend upon many factors unique to the site, location, or use of a particular product. Consult with your contractor or other professional to determine your specific installation requirements.

product dimensions:

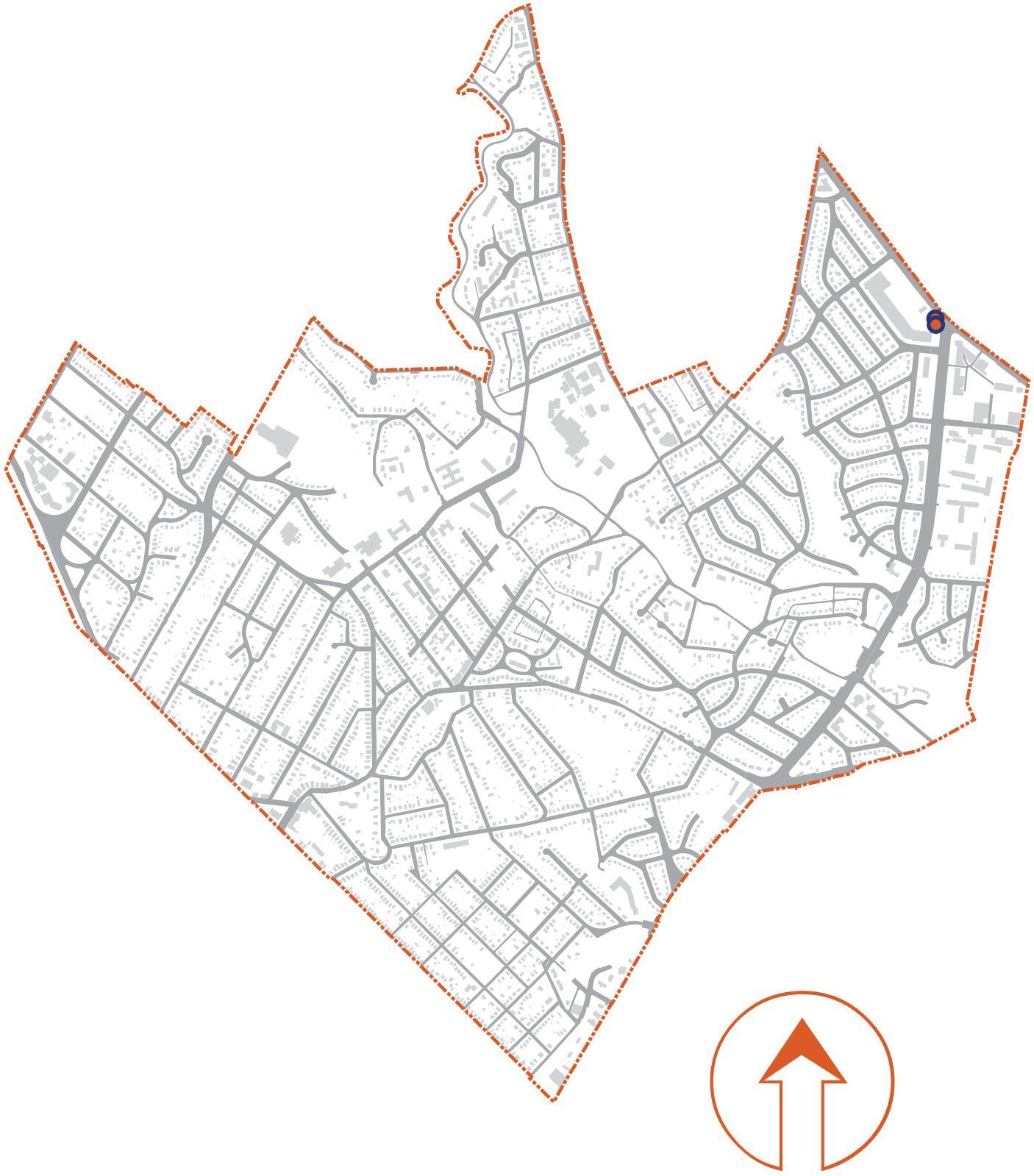




PLANTERS

PRODUCT	**SORELLA PLANTERS**
VENDOR	**LANDSCAPE FORMS**
INVENTORY	6 ARE IN PUBLIC RIGHT OF WAY, MAINTAINED BY TAKOMA/LANGLEY CROSSROADS CDA
DIMENSIONS	VARIOUS DIMENSIONS.
MATERIALS	PLANTER IS MADE FROM POWDERCOATED STEEL. PLANTER BASES AND GLIDES ARE MADE FROM 100% POST-CONSUMER AND POST-INDUSTRIAL WASTE COMPRESSION-MOLDED RECYCLED PLASTIC. BASES ARE 100% RECYCLABLE.
FINISHES & COLORS	PLANTERS ARE ALL PAINTED WITH PANGARD II POLYESTER POWDER COAT.
PURCHASE & INSTALLATION	PLACEMENT OF PLANTERS SHOULD MAINTAIN A MINIMUM 5' PEDESTRIAN CLEARANCE ALONG THE SIDEWALK. THREE SIZES MUST BE SURFACE MOUNTED: - 15"W X 15"D X 30"H - 30"W X 15"D X 30"H - 45"W X 15"D X 30"H
PHOTOS	 SORELLA PLANTERS OF VARYING SIZES AND COLORS AT NEW HAMPSHIRE AVENUE AND UNIVERSITY BOULEVARD (WITH OCEAN BLUE URBANSCAPE DEWART SERIES BENCHES).
	 STANDARD 30"H X 30"D X 30"W SORELLA PLANTER.

PLANTERS - LANDSCAPE FORMS SORELLA PLANTER



SORELLA PLANTERS

CITY BOUNDARY

0 0.25 0.50 1 MILES

Our Purpose Is To Enrich Outdoor Spaces

We believe in the power of design and its ability to influence and elevate the quality of public space. High quality products and outstanding customer experience makes us one of the world's premier designers and manufacturers of outdoor commercial furnishings.

Sorella Specifications

Sorella planters may be specified in powdercoated metal, or electropolished stainless steel for a more natural finish. Planters available in rectangle or square shapes, in 18" and 30" heights.

Fabricated, welded and ground steel panels attach to a polyethylene base, with glides and optional drain holes.

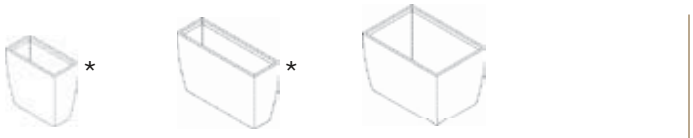
Planter bases and glides are compression-molded recycled plastic resulting from an innovative, patented melting process that utilizes 100% post-consumer and post-industrial waste. This unique process blends several material types, channeling more discarded plastics away from the landfill and into new life. Bases are 100% recyclable.

Planters are freestanding, with the exception of those noted below.

15" x 15" x 18"	30" x 30" x 18"	45" x 45" x 18"	w x d x h

30" x 15" x 18"	45" x 15" x 18"	45" x 30" x 18"	w x d x h

15" x 15" x 30" *	30" x 30" x 30"	45" x 45" x 30"	w x d x h



30" x 15" x 30" *	45" x 15" x 30" *	45" x 30" x 30"	w x d x h

*** Planters must be surface mounted.**

Finishes

All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading. A wide range of standard, optional and custom colors are available.

To Specify

Select Sorella planter, product description and size. Select powdercoat metal, or stainless steel. If metal is specified, select powdercoat color. Specify with or without drain holes.

landscapeforms.com
Visit our website for product details, color charts, technical sheets, sales office locations. Download JPG images, brochure PDF, CAD details, CSI specifications.

Metal is the world's most recycled material and is fully recyclable. Consult our website for recycled content for this product. Powdercoat finish on metal parts contains no heavy metals, is HAPS-free and has extremely low VOCs.

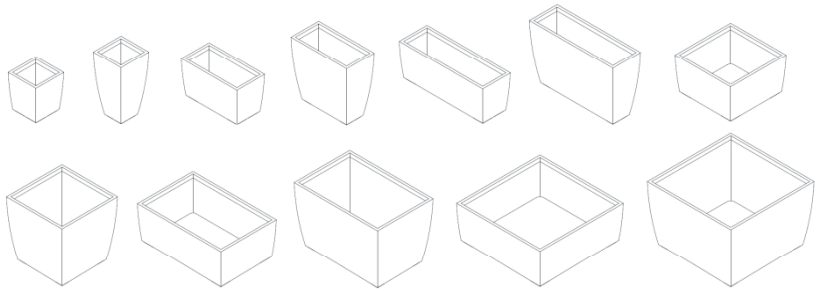
Landscape Forms is proud to specify FSC and Green-e certified paper. This paper meets the Forest Stewardship Council's standards for responsible forest management and is made using certified renewable energy.

landscapeforms
800.521.2546 269.381.3455 fax
431 Lawndale Avenue, Kalamazoo, MI 49048
landscapeforms.com

Sorella
Planter

Installation Guide

landscapeforms®
www.landscapeforms.com Ph: 800.521.2546



Planter Sizes

Included components:
- Planters intended for exterior use should be specified with drain holes
- Planters intended for interior use should be specified without drain holes
- Drain holes are pre-drilled at the factory. They can be added on site, before installation, if needed. Refer to Product drawings for locations.
- Anchoring hardware included for surface mount units. Setting tool for drop-in anchor is included.

2x – Surface Mount anchor, with 1/2-13 thread

2x – Drop-in 1/2-13 screw anchor, Ø5/8" O.D. x 2" length, stainless steel

2x – 1/4-20 x 1/2" Set screw

Surface Mount Hardware

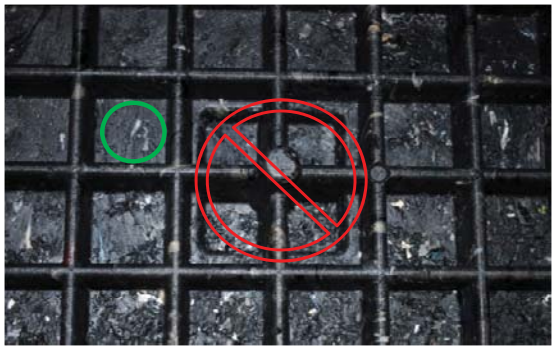
	Planter Size	Capacity
	15"w x 15"d x 18"h	13 Gallons (1.7 ft³)
**	15"w x 15"d x 30"h	19 Gallons (2.5 ft³)
	30"w x 30"d x 18"h	55 Gallons (7.3 ft³)
	30"w x 30"d x 30"h	89 Gallons (11.9 ft³)
	45"w x 45"d x 18"h	127 Gallons (17 ft³)
	45"w x 45"d x 30"h	211 Gallons (28.2 ft³)
	30"w x 15"d x 18"h	26 Gallons (3.5 ft³)
**	30"w x 15"d x 30"h	40 Gallons (5.4 ft³)
	45"w x 15"d x 18"h	40 Gallons (5.4 ft³)
**	45"w x 15"d x 30"h	62 Gallons (8.3 ft³)
	45"w x 30"d x 18"h	83 Gallons (11.1 ft³)
	45"w x 30"d x 30"h	137 Gallons (18.4 ft³)

** These sizes must be surface mounted.

Tools required for surface mount installation:
- Hammer drill with 5/8" diameter masonry bits
- Hammer
- Slotted screwdriver

ASSEMBLE WITH CARE! Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

A. PROCEDURE FOR FREESTANDING INSTALLATION:
1. Set unit in place on level surface.
2. Fill units with specified materials.
3. Remove protective film from stainless steel planters.



B. ADDING OPTIONAL DRAIN HOLES:
1. Drill ½" diameter holes in locations noted on Product Drawings.
2. Do not drill drain holes in any of the four squares surrounding the raised bosses.

Fig. C.1

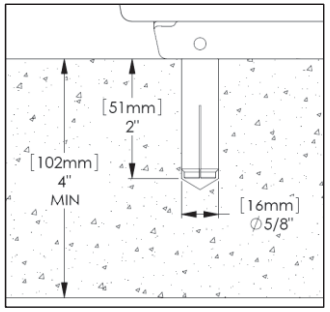


Fig. C.3

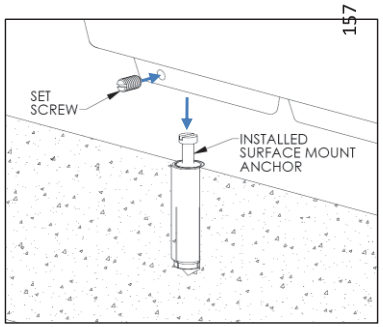


Fig. C.4

C. SURFACE MOUNT INSTALLATION PROCEDURE:
1. Turn planter upside down on non-marring surface. Thread surface mount anchors into each surface mount glide as shown in Fig. C.1.
2. Set planter in place. Trace surface mount bolt heads to mark hole locations. Remove surface mount anchors from planter.
3. Move planter and drill holes as shown in Fig. C.3. Clear holes of debris.
4. Install drop-in anchor as shown in Fig. C.4. Ensure top of anchor is flush or slightly below concrete surface. Expand with setting tool.
5. Thread surface mount anchors into drop-in anchor sleeves as shown in Fig. C.4
6. Set planters in place over surface mount anchors.
7. Thread set screws into sides of surface mount glides as shown in Fig. C.4

Takoma Park Streetscape Manual

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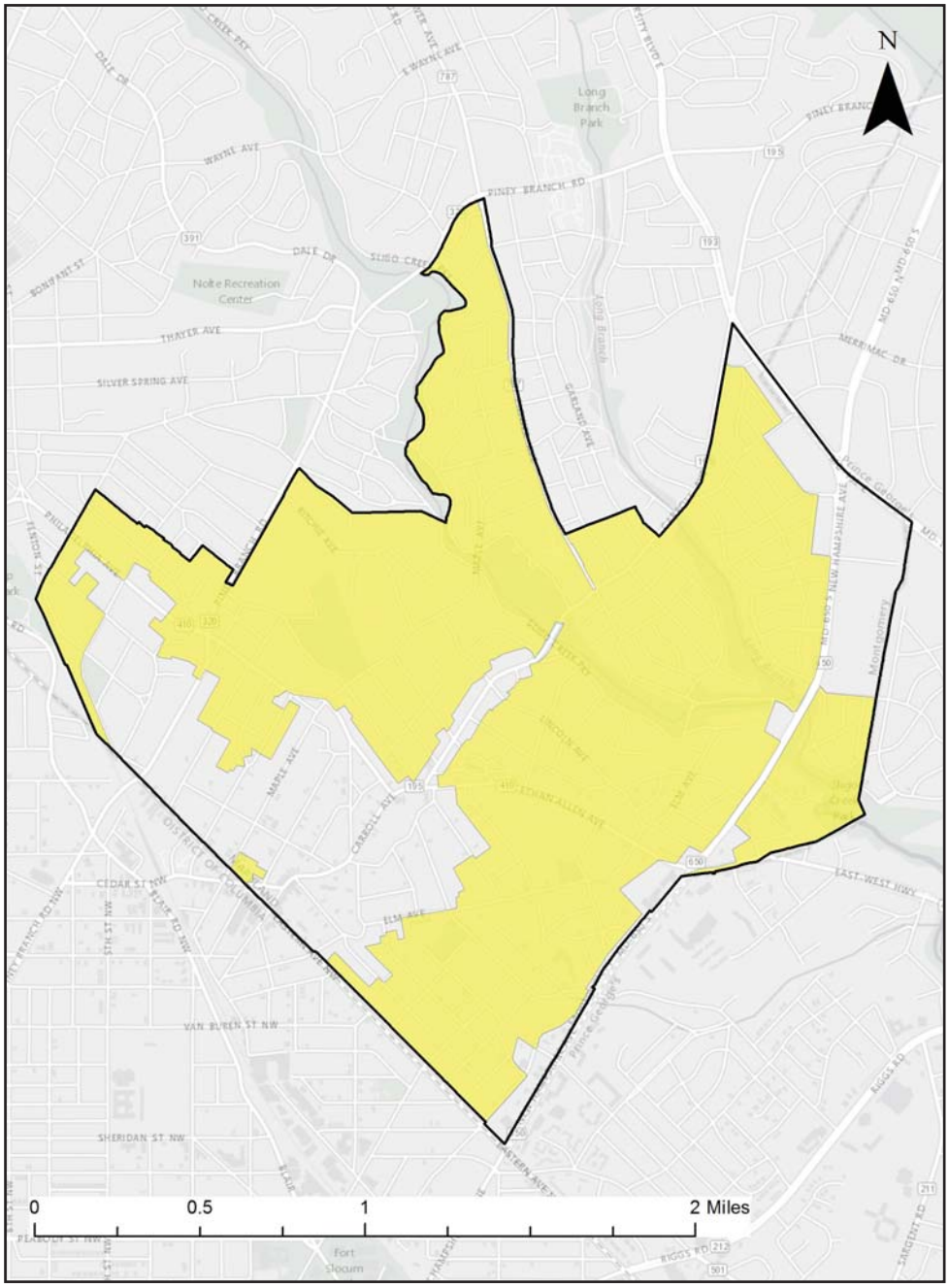
Residential Neighborhood Streetscape Elements



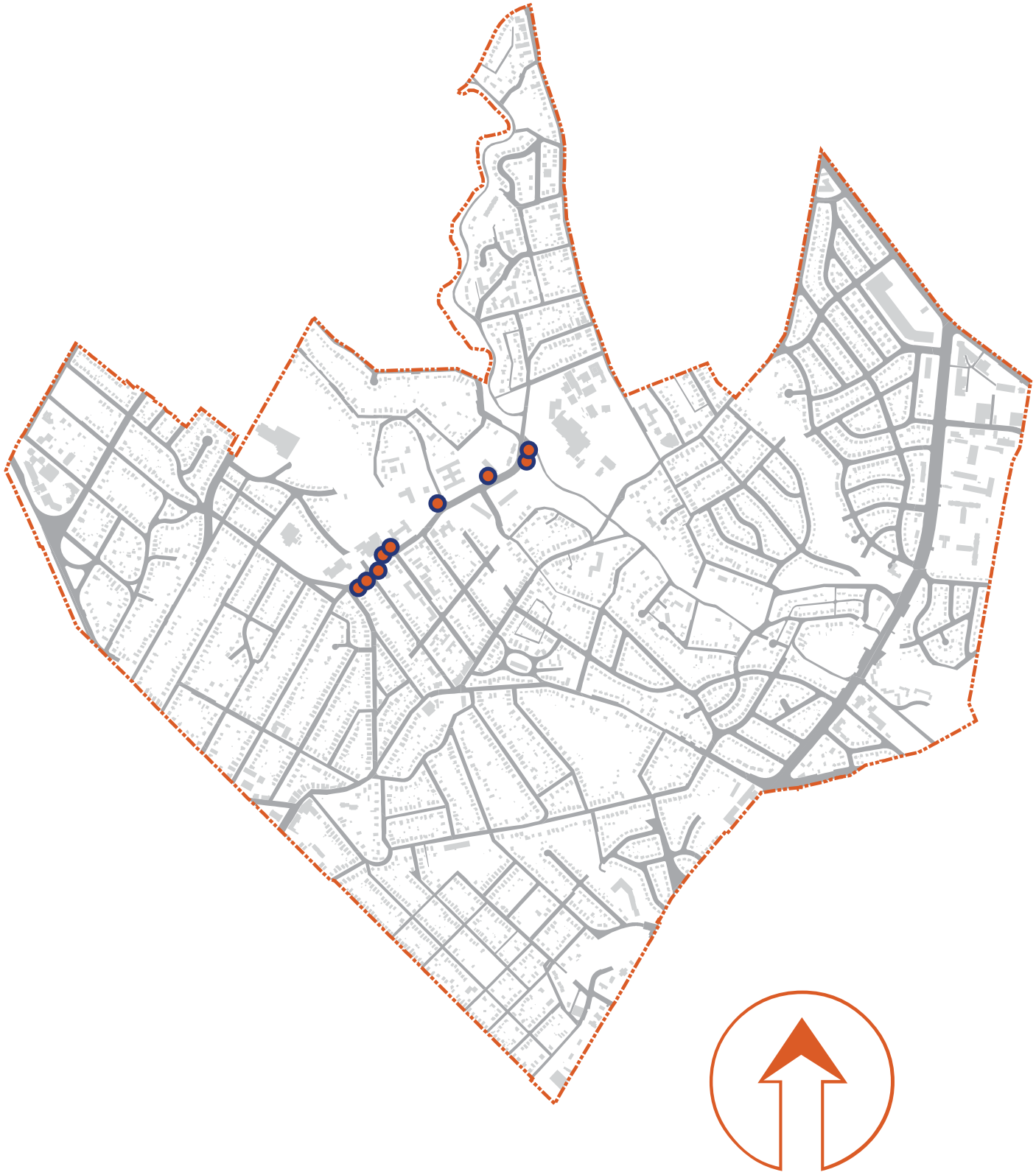
Residential streetscapes in Takoma Park that are outside of the areas defined as Flower Avenue, the New Ave, and the Historic District are predominantly composed of single- and multifamily housing with some institutional and retail land uses. As the city's residential neighborhoods tend to be greener and more architecturally varied, streetscape improvements should strive for neutrality and simplicity in color and design.

SEATING

PRODUCT	**DUMOR 168 SERIES BENCH**
VENDOR	**DUMOR**
INVENTORY	9 BENCHES
DIMENSIONS	75”L X 27-5/16”W X 32”H (SEAT HEIGHT IS 16-5/8” AND SEAT DEPTH IS 18-15/16”)
MATERIALS	BENCH IS 100% STEEL.
FINISHES & COLORS	BENCHES ARE ALL IN BRONZE POWDER FINISH.
PURCHASE & INSTALLATION	MOUNT AND ANCHOR USING 1/2” X 3-3/4” EXPANSION ANCHOR BOLTS (PROVIDED).
PHOTOS	

BRONZE DUMOR 168 SERIES BENCH ON MAPLE AVENUE, INSTALLED ON CONCRETE FOOTERS IN GRASS.

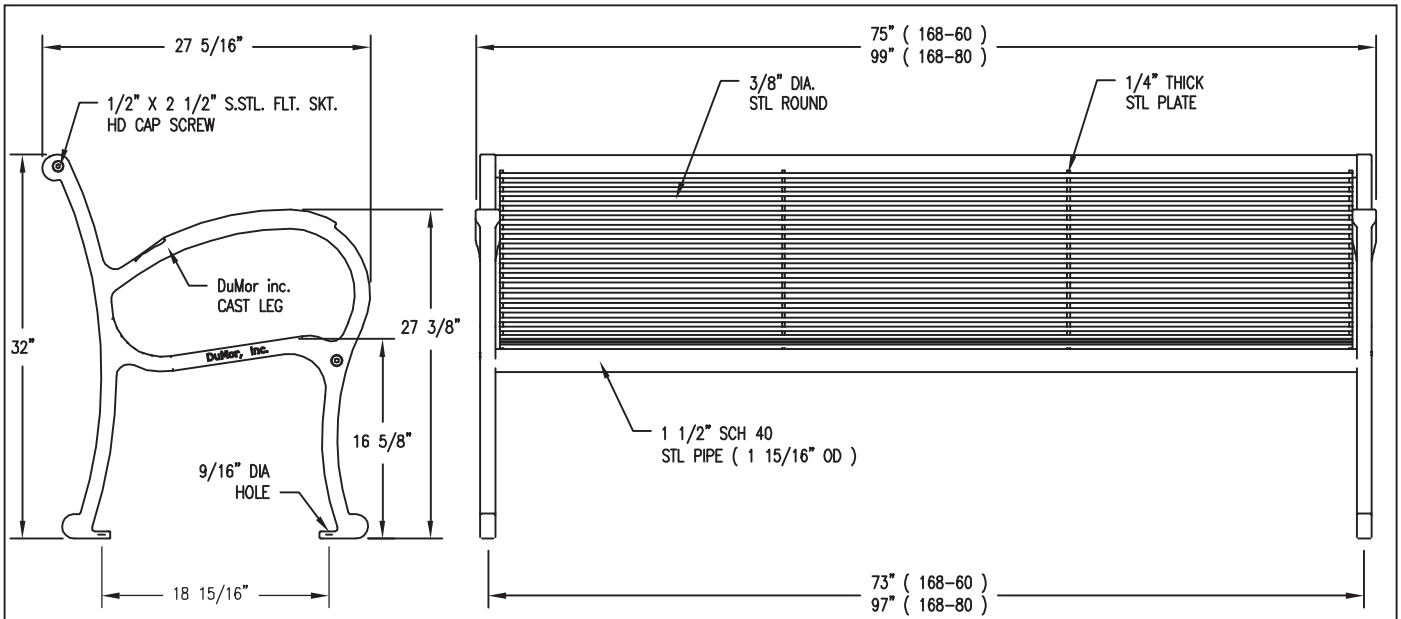
SEATING - DUMOR SERIES 168 BENCH

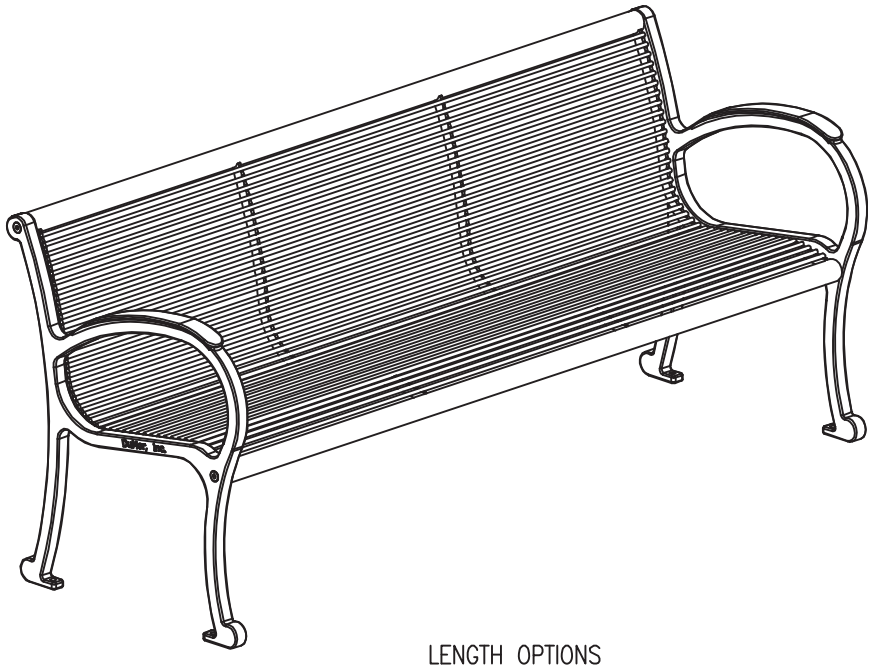


DUMOR 168 SERIES BENCH

CITY BOUNDARY

0 0.25 0.50 1 MILES





LENGTH OPTIONS

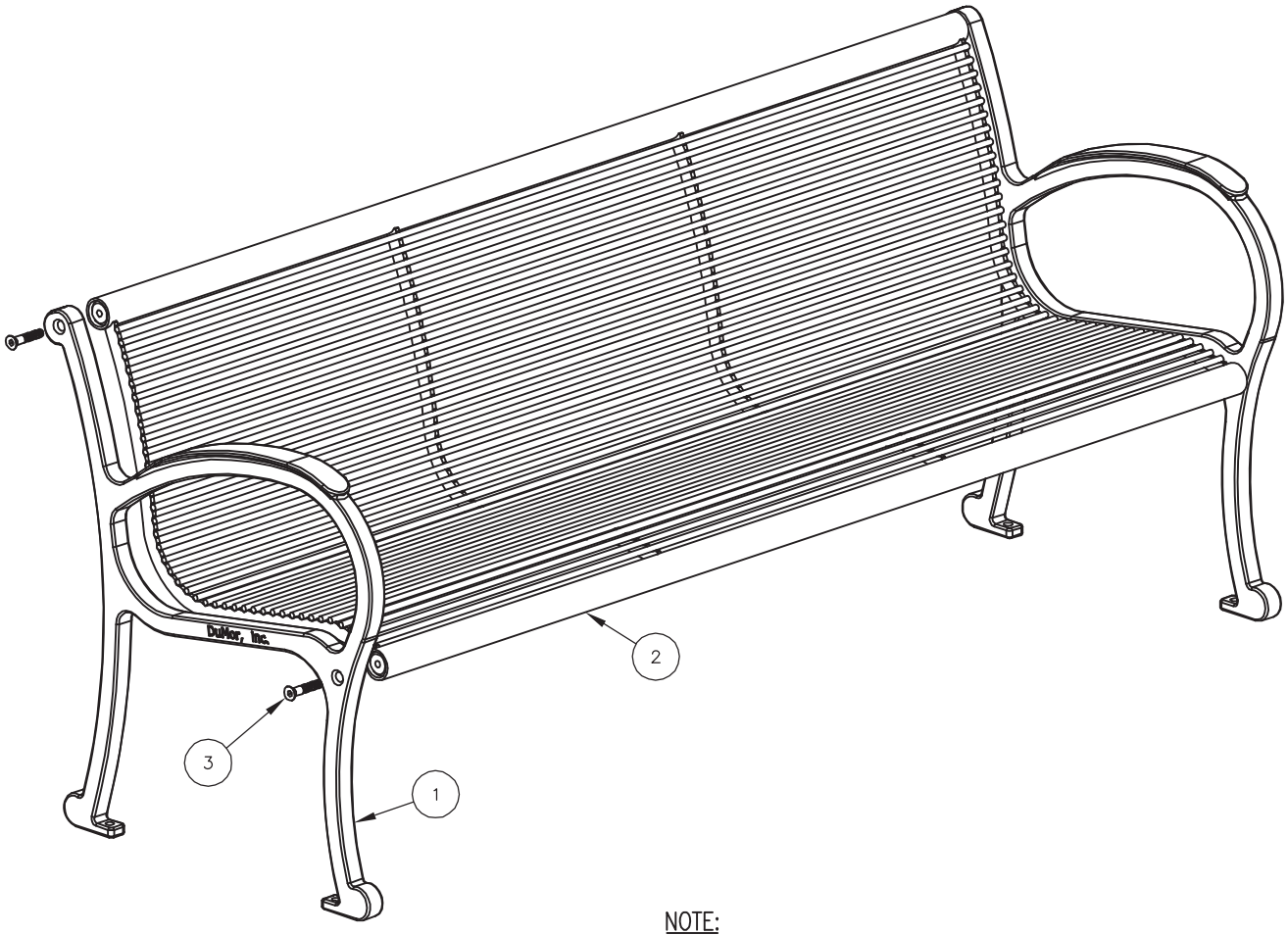
- ☐ 6' BENCH
- ☐ 8' BENCH

NOTES

1.) ALL STL. MEMBERS COATED W/ ZINC RICH COATING THEN POLYESTER POWDER COATED.
2.) BENCH IS SHIPPED UNASSEMBLED.
3.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

DuMor, inc.
P.O. Box 142 Mifflintown, PA 17059-0142

SCALE : NONE	TITLE : BENCH			
DATE DRAWN : 9/20/06				
DRAWN BY : AWH	REV. A	DRAWING NUMBER 168 SERIES	SHEET 1 OF 2	
DATE REV. :				
REV. BY :				



NOTE:
1.) DURING ASSEMBLY PROCEDURE;
DO NOT COMPLETELY TIGHTEN HARDWARE.
2.) THE ACTUAL PARTS WILL NOT BE NUMBERED:
NUMBERS ONLY APPLY TO DRAWING.

STEP 1:
USE 2 – PCS. CAST IRON BENCH SUPPORT W/ BACK (1)
1 – PC. 6' ALL STL WELDED SEAT SECTION (2)
4 – PCS. 1/2" X 2 1/2" FLT. SKT. HD. CAP SCR. (3)
ATTACH CAST IRON BENCH SUPPORT W/ BACK (1) TO 6' ALL STL WELDED SEAT ASSEMBLY (2) USING HARDWARE (3). TIGHTEN TO SNUG FIT.

STEP 2:
UPON COMPLETION OF BENCH ASSEMBLY SQUARE ALL COMPONENTS THEN TIGHTEN ALL HARDWARE.

STEP 3:
MOUNT AND ANCHOR AS SPECIFIED.

ITEM	QTY	PART NO	DESCRIPTION
1	2	0-160-00-01	CAST IRON BENCH SUPPORT FOR BACKREST
2	1	0-168-60-01	6' STL SEAT
3	4	1-12-065	1/2" X 2 1/2" FLT SKT HD CAP SCR

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SCALE : NONE	TITLE : BENCH ASSEMBLY		
DATE DRAWN : 9/20/06			
DRAWN BY : AWH	REV. A	DRAWING NUMBER 168 SERIES	SHEET 2 OF 2
DATE REV. :			
REV. BY :			