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**Project Goals**

**Introduction**

The Sign Design Guidelines Manual for Pittsburgh's current Regional Parks was developed to establish a consistent message with interpretive and wayfinding signs for the regional parks of Pittsburgh: Emerald View Park, Frick, Highland, Riverview, and Schenley. The Sign System consists of a series of visual cues to help visitors experience and navigate the parks with ease. The wayfinding and interpretive cues exist to enhance the visitor's enjoyment and understanding of the parks while not intruding on the natural and historic settings. The purpose of this sign system is to provide a framework for future signing of the parks. Examples of sign types and their use are detailed within this document.

**Intended Audience**

These standards are intended primarily for internal use by the City of Pittsburgh departments of Parks and Recreation, Planning, and Public Works. It will be particularly relevant to operations within Public Works parks division, as well as within other divisions/departments working in City open spaces that relate to signage. Where partners (non-profits, community based organizations, and stewards) have agreements to steward City open spaces, they may develop, fabricate, and implement signage in coordination with City Planning.

**History of The Sign Masterplan**

**Prehistory** - One of the first objectives of the PPC was to map the four regional parks. In the community stakeholder meetings that generated content for the maps, it became obvious that the parks needed to be branded. Sites within them needed interpretation, and wayfinding systems were critical to getting people around the sites. It also became evident that the parks were used by different groups, looking for experiences ranging from easy to difficult. The maps included descriptions of park experiences packaged for easy access, medium difficulty, and more challenging experiences. Once this idea was in place, it became necessary to implement this across all of the parks in the area. Signage would be the way to communicate this to park users. A cohesive family of signs would be necessary to communicate to park users that they were in a Pittsburgh area park. This visual language would be used to instantly inform park users where they are and brand the parks.

**2006** - A sign standards manual was developed for the four Regional City Parks, Frick, Highland, Riverview, and Schenley. Schenley Plaza was the first site to be designed using the new guidelines. The design was rooted in history and the aesthetics of historic urban parks.

**2015** - A sign masterplan was developed for the Allegheny County Parks which include Boyce Park, Deer Lakes, Harrison Hills, Hartwood Acres, North Park, Round Hill, Settlers Cabin, South Park, and White Oak. The intent was to make a standard sign system for each park in Allegheny County. Although it is unique in its own way, the Allegheny County Parks masterplan was based on the City Parks masterplan to create a cohesive sign language throughout the region’s parks. The design for this program is geared toward a more rural setting. The colors are muted, shapes are simplified and construction methods are honest and obvious to emulate the functional nature of their surroundings. A system of interpretive signs was first implemented at the Round Hill Park Exhibit Farm.

**2016** - A sign masterplan was adopted by the City of Pittsburgh for Non-regional parks, Open Spaces, greenways, and privately owned public spaces. The intent was to make a standard sign system for the City's Open Spaces/Public Spaces. The sign system design is based on previous masterplans and further modified so it could be produced inexpensively using the City Sign Shop. The design was modified for smaller scale sites in many urban locations. The first park to use this system was South Side Park.

**2018** - The strategy for this updated signage manual for Regional Parks is to update the 2008 sign standards. In addition to the four Regional City parks (Frick Park, Highland Park, Riverview Park, and Schenley Park), a fifth Regional Park was added in 2011, Emerald View Park. This manual will be the culmination of what has been learned from previous park signage strategies. Goals for this project are to make the signs cohesive, cost efficient, and easily implemented by the City.

**Why a Standardized System is Needed**

A standardized sign system is necessary for the Regional Parks to enhance visitor experience, improve educational outreach efforts, increase safety, and create a pleasing and unifying visual vocabulary within the parks. A standardized system will create a uniform identity for the Regional Parks with consistently marked entrances, amenities, and trails. The signs will incorporate a coordinated visual language by standardizing sign sizes, colors, materials, typography, messages, symbols, and sign placement. In addition, a cohesive system of wayfinding will make it easier for visitors to find the experiences they are looking for. The sign standards are to bring a sense of unity and place to each of the parks.

**Sign Scale & Placement Guidelines**

The Pittsburgh Parks Conservancy is very sensitive to the presence of signs within parks. Frederick Law Olmsted, the father of American landscape architecture, considered parks to be sign-free zones. While that is nearly impossible with the demands of heavily used city parks, a similar philosophy is followed. Very simply, park signs should be confined to the “urban edge” as much as possible. The deeper you get into a park, the less signs you should see. Signs placed in the cityscape are typically very prominent. Within parks, signs should be placed inconspicuously, maintaining views of the natural landscape. A goal is to not see signs in photographs.

Park identification signs should be limited to the park perimeter. Interpretive signs should occur at the urban edge, to educate people as they enter. Building or shelter identification should be sited within range of the corresponding structure. Wayfinding and trail signs deeper in the park should be clustered in planting groups where possible. Signs in open spaces are discouraged.

The signs are designed to reflect the history of the park, without being period specific. The distinctive blue was matched to a Pittsburgh sky. It is considered a neutral color in the landscape and disappears somewhat like a mirror. The black support structures are meant to evoke wrought iron but they are made of one of Pittsburgh’s signature materials, aluminum. The typography is sized for reading at varying distances – never too large.
Park Locations

- Riverview Park
- Highland Park
- Emerald View Park
- Schenley Park
- Frick Park
Park Descriptions

Emerald View Park

As the newest Regional Park, Emerald View Park surrounds the neighborhoods of Duquesne Heights, Mount Washington and Allentown. Dedicated in 2005, the expansive 257-acre park combined existing parks, the Grand View Scenic Byway, a greenway, and other greenspace. Emerald View Park boasts a growing trail system that offers 11 miles of trails featuring loops that range from one to four miles. Ultimately the trail system will include a 9-mile main loop and almost 11 miles of secondary trails that connect to all nearby regional trails and neighborhoods. The goal of wayfinding for this park is to link the linear, looping park under one identity. A trail marker and route system would connect the distinct spaces that form the park.

Frick Park

At the heart of Frick Park is the Frick Environmental Center and the original Frick Woods. The character of this park is derived from the wooded slopes and valley floor. The focus of signing the park should fall primarily on the trail system and directing the visitor from the various entry points into the woodland core. Due to vehicular traffic existing only on the perimeter, the majority of this park’s signs will be pedestrian-scale that will direct visitors into and throughout the park’s natural areas.
Park Descriptions

Highland Park

Originally designed as a stately Victorian park, Highland Park's central features are manmade structures. The entry gardens, the reservoirs, and the swimming, playground and picnicking amenities each have their own character. The goal of the wayfinding for this park is for it to link each of the unique amenities under one identity.

Riverview Park

Defined by its steep hillsides, Riverview Park is also known for its expansive natural areas. A number of roads and trails for both vehicular and pedestrian traffic connect visitors to various park features and wooded areas. The signing of each amenity is to be visually modest and functionally effective when directing a visitor. Due to the park's distanced location from the other four major city parks, an important focus of the sign program is to carry over its aesthetic identity to link this park with the others.

Schenley Park

As the most urban of the five parks, Schenley Park is known as Pittsburgh's "Civic Park," and is surrounded by universities, neighborhoods, museums, and libraries. The means by which to enter and exit the park is primarily vehicular traffic. One goal for signing this park is to effectively direct this traffic along major roadways to the primary points of interest, while the other goal is to reconnect the park with pedestrian foot traffic from surrounding universities and neighborhoods.
Trail Naming Process

Map trails with DCP ARC GIS  →  Work with DCP to identify hierarchy  →  **Trail Naming** See text below  →  Submit Naming Commission Application  →  Naming Commission Presentation  →  Edits/Re-present

Start  →  End
Trail officially named  →  Maps to Emergency Services  →  Mayor Signature  →  City Council Approval  →  Legislation Submission

Trail Naming Guidelines

**Definition:** Trail - contained within a City designated open space (park and/or greenway) and are considered multi-use trails, pedestrian trails, paths, park pathways, and mountain bike trails.

**Background:**

a. Existing Names
   i. If physically signed by the City, adopt existing name using the "trail" suffix.
   ii. Existing duplicate or similar sounding trail names within the open space system should be changed to ensure efficiency of the emergency response system.

b. Proposed Names
   i. Prioritization to follow this order:
   1. Regional Parks
   2. Riverfront Parks
   3. Community Parks
   4. Greenways
   5. Neighborhood Parks

**Naming Conventions:**

a. Naming
   i. Easy to pronounce/spell
   ii. Limit of 60 characters including spaces
   iii. Each trail shall have the same name throughout its entire length
   iv. Must not duplicate, or be similar to any existing trail names in the City
   v. Refrain from Street duplication
   1. Allowed if street is in proximity to Open Space (proximity - defined as adjacent neighborhood(s)
   vii. Existing duplicate or similar sounding trail names should be changed to ensure efficiency of the emergency response system.
   viii. Do not use any punctuation in the name (periods, commas, hyphens, apostrophes, dashes, etc.)
   ix. Do not use numbers as part of the name
   x. Do not use suffixes, directional suffixes, prefixes, and directional prefixes as trail names (ex: East Trail, West North Trail)
   xi. Do not use single letter trail names
   xii. Do not use any suffix except "trail"
   xiii. Trail names must be spelled out completely. Do not abbreviate any part of the trail name.
   (ex: Martin Luther King Trail, not MLK Trail)
   xiv. Address/Geo-locate in 0.2 mile intervals, including trailheads
   xv. Mile mark any trail over 2 miles
   xvi. Trailhead(s), not internal to an Open Space, but adjacent to a City right-of-way must utilize the ROW name then suffix "trail" and identify Open Space Name.
   xvii. Trail named after individuals; individual must be deceased at least 3 years
b. Renaming
   i. Discouraged, except for an emergency response system reason.
Fonts

Fonts, Symbols, Colors, and Materials
The sign program creates an identity that links the parks together and offers clear, concise, and consistent communications and aesthetics to park visitors. To maintain the visual continuity between the Regional Parks, fonts, colors, and symbols must be consistent.

Garamond is the serif font and Franklin Gothic is the sans serif font for the sign system. These are classic fonts that are suitable for wayfinding in terms of legibility and familiarity. To ensure consistent communications to any visitor, the signs use international symbols.

The metallic blue-grey background color (Sky Blue) was chosen for its ability to be noticed during all four seasons, while still complementing the natural world and sky. The white text and graphic color was chosen for the greatest visibility and contrast against the background color.

Typography is the primary element of the graphic design standards. Consistency in typography throughout the sign system is the primary aid for the user when identifying and comprehending the wayfinding or interpretive information presented.

Regular
Use regular weight font for body text, lists, etc.

Franklin Gothic Book
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Garamond Bold
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Franklin Gothic Medium
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Bold
Use bold weight font for Park/Amenity names, directional information and to add emphasis.

Franklin Gothic Book
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Garamond Bold
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Franklin Gothic Medium
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Italic
Use italic weight font for photo credits on interpretive signs and for adding emphasis to a word within a line of text.

Franklin Gothic Book Italic
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Garamond Bold Italic
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-

Franklin Gothic Medium Italic
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
1234567890$%!?-
# Font Use Guidelines

<table>
<thead>
<tr>
<th>Title/Headline</th>
<th>Directional Messages</th>
<th>Body text (paragraph)</th>
<th>Image descriptions</th>
<th>Photo credits</th>
<th>Regulatory messages</th>
<th>Maps: Trail names</th>
<th>Maps: Location/Amenity</th>
<th>Maps: Symbol key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garamond Bold</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Franklin Gothic Book</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Franklin Gothic Medium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>to add emphasis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Franklin Gothic Book Italic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>to add emphasis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Letter Height

Text should be no smaller than 1/8" so that it can be read by all park users. Letter heights are determined by how far away the message needs to be read. See the diagram below for a guide.

A general rule is a 1" tall letter can be read from 50’ away.

Use this formula to determine letter heights.

Distance from sign divided by 50 equals the letter height

100’ distance from sign ÷ 50 = 2” minimum letter height

---

![Diagram showing letter height distances](image)
### Colors

<table>
<thead>
<tr>
<th>Color Code &amp; Swatch</th>
<th>PMS Match</th>
<th>Paint Match</th>
<th>Opaque Vinyl</th>
<th>CMYK</th>
<th>RGB</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1 White</td>
<td></td>
<td>*3M 7722S-10 White</td>
<td>C 0 M 0 Y 0 K 0</td>
<td>R 255 G 255 B 255</td>
<td></td>
<td>Sign Messages, Maps/Symbols</td>
</tr>
<tr>
<td>C2 Sky Blue</td>
<td>*PMS 7454C</td>
<td>GG 343AA4 or MP22010</td>
<td>N/A</td>
<td>C 65 M 36 Y 14 K 0</td>
<td>R 97 G 142 B 181</td>
<td>Identification Signs, Interpretive Signs</td>
</tr>
<tr>
<td>C3 Black</td>
<td>*PMS 348 U</td>
<td>GG 325 D6</td>
<td>N/A</td>
<td>C 80 M 27 Y 77 K 11</td>
<td>R 35 G 31 B 32</td>
<td>Sign Frames &amp; Posts</td>
</tr>
<tr>
<td>C4 PPC Green</td>
<td>*PMS 186 C</td>
<td>GG405 A5</td>
<td>3M 7725-63 Geranium</td>
<td>C 12 M 100 Y 91 K 3</td>
<td>R 207 G 10 B 44</td>
<td>Select Regulatory Signs</td>
</tr>
</tbody>
</table>

* *Master Match Colors*

Asterisks indicate the original color to match. Match other related applications to this color.

*Paints*

Unless otherwise noted, Paint specifications are provided from the Akzo Nobel Grip Guard paint system, noted as GG.

Unless otherwise noted, painted surfaces should have an eggshell finish.

*Color specifications in bold font represent the master color. Any alternate ways of reproducing the color should be matched to a physical sample of the color.*
Arrows

These arrows have been illustrated specifically for Open Space Pittsburgh Signs. Do not use other arrow art.

Do not place arrows inside a circle, box or other shape.

6X6 grid provided to show exact composition of approved arrows.

Red dashed square field provided to size arrows on sign layout; do not print dashes on sign face.

Arrows are only to be placed at 0°, 90° and 45°.

Arrows should never be pointed at text or messages.

On a map or directional sign, only use one arrow per direction.
### Trail Difficulty

These icons describe the difficulty level of the trail systems within the parks.

Difficulty level must always be marked by the unique shape of each symbol. The color of the symbol is secondary and does not always have to be used.

For example, easy trails will always be marked by a circle. The circle may be either green, white, or black depending on the application.

<table>
<thead>
<tr>
<th>Trail Rating</th>
<th>ADA Accessible</th>
<th>Easy</th>
<th>Intermediate</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Definition</strong></td>
<td>Smooth, wide</td>
<td>Mostly smooth, wide</td>
<td>Mostly uneven, variable width</td>
<td>Long rocky segments, possible drops and exposure</td>
</tr>
<tr>
<td><strong>Type of Open Space</strong></td>
<td>Park Pathways</td>
<td>Pedestrian Trails, Multi-Use Trails</td>
<td>Pedestrian Trails, Multi-Use Trails</td>
<td>Pedestrian Trails, Mountain Bike Trails</td>
</tr>
<tr>
<td><strong>Trail Width</strong></td>
<td>36” or more, with passing space every 1000”if under 60”</td>
<td>36” or more</td>
<td>24” or more</td>
<td>6” or more</td>
</tr>
<tr>
<td><strong>Tread Surface</strong></td>
<td>Firm and stable</td>
<td>Firm and stable</td>
<td>Mostly stable with some variation</td>
<td>Widely variable</td>
</tr>
<tr>
<td><strong>Average Trail Grade</strong></td>
<td>5% or less</td>
<td>5% or less</td>
<td>10% or less</td>
<td>20% or less</td>
</tr>
<tr>
<td><strong>Obstacles (rocks, tree roots, fallen trees, etc.)</strong></td>
<td>Unavoidable obstacles 1/4” tall or less</td>
<td>Unavoidable obstacles 2” tall or less</td>
<td>Unavoidable obstacles 8” tall or less</td>
<td>Unavoidable obstacles 15” tall or less</td>
</tr>
<tr>
<td><strong>Technical Trail Features (TTF)</strong></td>
<td>Unavoidable bridges 36” or wider, with passing space if under 60”</td>
<td>Unavoidable bridges 36” or wider</td>
<td>Unavoidable bridges 24” or wider</td>
<td>May include loose rocks</td>
</tr>
<tr>
<td></td>
<td>Little to moderate stair climbing</td>
<td>Little to moderate stair climbing</td>
<td>TTF’s 2’ high or less, width of deck is greater than 1/2 height</td>
<td>Unavoidable bridges 24” or narrower</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Moderate to significant stair climbing</td>
<td>TTF’s 4’ high or less, width of deck is less than 1/2 height</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lots of significant stair climbing</td>
</tr>
</tbody>
</table>
Logos

PPC Logo
Use: identification and interpretive signs

Open Space Logo
Use: identification and regulatory signs that list park rules.

City Shield - Identification
Use: identification signs.

City Shield - Regulatory
Use: regulatory and identification signs that list park rules. Always include the 311/emergency text.

City of Pittsburgh
Information:
Call 311 Response Center
pittsburghpa.gov/citiparks
To report an emergency, call 911.
Park Name Standards

Always maintain a clear area around all four sides of the Park Name, equal or greater than .4x of the capital letter height. Only the Open Spaces logomark may violate the clear area. See sheet 3.3 for an example.

X = the height of a capital letter

Clear space around Park Name is always left blank

When rotated 90°, the park name should always read from bottom to top. Never top to bottom.

YES  NO

Emerald View Park
Frick Park
Highland Park
Riverview Park
Schenley Park
Emerald View Park
Riverview Park
Schenley Park
Frick Park
Highland Park
Primary Single Post Freestanding Identification Sign

Primary Use
Identify a park or major destination

Layout Contents
Name of the park or destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be oriented as shown in this layout and read from bottom to top.

Logos
PPC Logo
City Shield - Identification

Exclusion Zone (shown in red)
3" border where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
- Globe finial for 4" diameter posts
- Tapered base for 4" diameter posts

See the following section for construction details

Secondary Single Post Freestanding Identification Sign

Primary Use
Identify a park or major destination

Layout Contents
Name of the park or destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be oriented as shown in this layout and read from bottom to top.

Logos
PPC Logo
City Shield - Identification

Exclusion Zone (shown in red)
2" border where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
- Globe finial for 3" diameter posts
- Americana base for 3" diameter posts

See the following section for construction details

4" dia round post
2'-6" x 13'-9" sign face

3" dia round post
1'-6" x 8'-0" sign face

Reflected layout
Opposite side of double-sided sign
Primary Single Post Freestanding Identification Sign

- 2.4" x 7.4"

Finial
Hardware
Sign panel
Graphics

Sign face will require a seam due to size

4" dia round post

Section A - 1/2 scale

- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet.
- Apply printed vinyl to sign faces.

Sign Attachment Bracket
- http://www.hooksandattic.com
- Custom part based on Part #2001-5-S-5T-SGN, or equal
- Custom made to fit a 4" OD pole.
- Qty: TBD by engineer review of drawings
- Space evenly on sign face

Hardware (as required)
- Stainless steel/galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.

Graphics
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas.
- See page 5.1a for details

Finial
- Cast Aluminum Globe Finial for 4" post.
- www.shopsignaturetreescapes.com
- Globe Finial - Part #PN-204, or equal
- Paint Color 3, Black

Post
- 4" OD aluminum post.
- 1/4" wall thickness to accommodate Globe Finial (engineer to verify required thickness of Post)
- Paint Color 3, Black

Base
- Decorative Base Cover by Kim Lighting
- Model # DSC4/HBC1, or equal
- Supplier TBD
- Paint Color 3, Black

Foundation
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges.
No sharp corners.
Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
Secondary Single Post Freestanding Identification Sign

Sign Panel:
- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet
- Apply printed vinyl to sign faces.

Sign Attachment Bracket:
- http://www.hooksandlattice.com
- Part #2201-SO-ST-SGN, or equal
- Qty:TBD by engineer review of drawings
- Space evenly on sign face

Hardware (as required):
- Stainless steel/galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.

Graphics:
- Graphics to be printed on opaque vinyl.
  See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti laminator in high traffic areas.
  See page 5.1a for details

Finial:
- Cast Aluminum Globe Finial for 3" post.
  www.shopsignaturestreescapes.com
- Globe Finial - Part #F-0203, or equal
- Paint Color 3, Black

Post:
- 3" OD aluminum post.
- 1/4" wall thickness to accommodate Globe Finial (engineer to verify required thickness of Post)
- Paint Color 3, Black

Base:
- Mini Americana Base
  www.shopsignaturestreescapes.com
- Model # BS-035, or equal
- Paint Color 3, Black

Foundation:
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges.
No sharp corners.
Eased Edge = removing the sharp corner from the sign panel; Less than or equal to 1/8" radius at the corner of the panel.
Double Post Freestanding Identification Sign

Primary Use
Identify a park or major destination

Layout Contents
Name of the park or destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be center justified and centered on the sign face.

Logos
PPC Logo
City Shield - Identification

Exclusion Zone (shown in red)
3" border where text/graphics are prohibited
Clear area around Park Name is permitted
within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction detail
Large Double Post Freestanding Entry Signs

Sign Panel
- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet and plate
- Apply printed vinyl to sign faces.

Sign Attachment Bracket
- http://www.hooksandlattice.com
- Part #2201-50-ST-SGN, or equal
- Qty: 4
- Space evenly on sign face

Hardware
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.

Graphics
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

Posts
- 3" OD aluminum post, qty: 2
- 1/4" wall thickness to accommodate Globe Finial
- Paint Color: 3, Black

Event Panel
- 1/8" thick Sintra panel to display upcoming events.
- Panel is intended to be temporary and replaced periodically as new events are advertised.
- Apply graphics as described on page 5.1a

Foundation
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges. No sharp corners.

Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
Boundary Identification Sign

Primary Use
Identify a park or major destination
These signs should be limited to the perimeter of the park and attached to existing posts.

Layout Contents
Name of the park or destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be oriented as shown in this layout and read from bottom to top.

Logos
PPC Logo
City Shield - Identification
Clear area around Park Name is permitted within the Exclusion Zone

Exclusion Zone (shown in red)
2’ border where text/graphics are prohibited

Decorative Elements
n/a

See the following section for construction details

Attach to existing 3” diameter post
2’-0” x 8’-0” sign face

Boundary Identification Sign

Primary Use
Identify a park or major destination
These signs should be limited to the perimeter of the park and attached to existing posts.

Layout Contents
Name of the park or destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be oriented as shown in this layout and read from bottom to top.

Logos
PPC Logo
City Shield - Identification
Clear area around Park Name is permitted within the Exclusion Zone

Exclusion Zone (shown in red)
2’ border where text/graphics are prohibited

Decorative Elements
n/a

See the following section for construction details

Attach to existing large diameter post
2’-0” x 8’-0” sign face
Boundary Identification Sign Attached to Existing Post
(3" diameter poles only)
This option is alternate. See Single Post Freestanding Identification Sign (small) for the preferred option

Sign Panel
- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet

Sign Attachment Bracket
- http://www.hooksandlattice.com
- Part #2201-PM-ST-SGN, or equal
- Qty: TBD by engineer review of drawings
- Space evenly on sign face

Mounting Arm
- 2"x2" (verify) square pole.
- Cap end with plastic cap
- See section 6 for cap spec.
- Paint Color B, Black

Hardware (as required)
- Stainless steel galvanized with tamper resistant dome heads

Graphics
- Graphics to be printed on opaque vinyl.
  See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign face.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

Section A
- Mounting arm (cap end)
- Sign face
- Existing post (3" diameter)
- Sign attachment bracket
- Sign panel
Boundary Identification Attached to Existing Lamp Posts & Telephone Poles

*NOTE*
Prior to installing this sign type, ensure the lamp post or telephone pole can sustain the additional wind load created by the sign face.

Ensure conformity with local codes prior to installation.

Verify that the sign does not interfere with climbing pegs, access plates or any other vital component of the lamp post or telephone pole.

**Sign Panel**
- 0.080 inch ASTM B 209 (ASTM B 209M) aluminum sheet.
- Apply printed vinyl to sign faces.

**Bracket**
- http://www.hooksandlattice.com
- Part #DS-HR-238-7, or equal
- Qty:TBD by engineer review of drawings
- Space evenly on sign face

**Hardware**
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.

**Attachment**
- Attach bracket to post/pole with metal straps at appropriate positions to sign.

**Installation**
- Verify that sign does not interfere with climbing pegs, access plates, or any other vital component of the post/pole.

**Graphics**
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

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**GENERAL NOTES**
**These Drawings Provide Design Intent Only.**
The Drawings/Specifications are for the use of this project only. They shall be the property of the architect and/or engineer and shall be the responsibility of the owner, architect, and engineer for the proper use of the drawings. The drawings shall be guarded and controlled and remain the property of the architect and/or engineer. The drawings shall remain the property of the architect and/or engineer and shall be guarded and controlled. Any and all modifications to the drawings shall be made only by the architect and/or engineer.

Elevation Scale in Feet 0'-0" = 0'-0" 3'-0" = 3'-0" 6'-0" = 6'-0"
Double Post Entry Sign

Primary Use
Identification of a main entrance to a park.

Layout Contents
Name of the park and/or entrance (Garamond Bold font)
White text with Sky Blue background
Include appropriate regulatory text and symbols (Franklin Gothic font)
Text height should be 1/8" and larger for readability
Sign may include directional text (Franklin Gothic font) with arrows
Directional message text height should be more than or equal to 1"
The sign may also include a map of the park. Ensure the map is printed at a scale large enough for the text to be read.

Logos
Open Space logo
PPC Logo
City Shield - Regulatory with 311 information

Exclusion Zone (shown in red)
1.5" border where text/graphics are prohibited. Images and/or maps may bleed to the edge of the panel, but layout text and text within the map must be formatted to obey the 1" Exclusion Zone.
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction detail
Double Post Entry Sign

- **Sign Panel**
  - 3mm Dibond PE aluminum composite material (ACM)
  - Provide internal structure as required.
  - Apply printed vinyl to sign faces.

- **Hardware**
  - Stainless steel or galvanized with tamper resistant dome heads.
  - Provide attachment points spaced 12" to 18" OC.
  - Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

- **Graphics**
  - Graphics to be printed on opaque vinyl. See page 51a for vinyl spec & details
  - Apply vinyl to 1st surface of sign faces.
  - Provide UV stable inks for exterior use.
  - Provide an anti-graffiti lamination in high traffic areas. See page 51a for details

- **Frame**
  - 2"x2" square aluminum tube
  - Paint Color 3, Black
  - Provide cap at top of post.
  - See section 6 for cap spec.

- **Foundation**
  - Installer to provide adequate foundation/footer to support sign.
  - Footer to be at least 2" below grade.
  - Install deep enough to prevent heaving due to freeze-thaw cycle.

- **Note:** All sign panels are to have eased edges. No sharp corners.
  - Eased Edge: removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
Large Amenity Identification Sign

Primary Use
Identification of an amenity within a park.
(dog walk area, shelter, playground, etc.)

Layout Contents
Name of the amenity (Garamond Bold font)
White text with Sky Blue background
May include appropriate regulatory text and symbols (Franklin Gothic font)
Text height should be 1/8" and larger for readability

Logos
PPC Logo
City Shield - Identification

Exclusion Zone (shown in red)
2" border where text/graphics are prohibited
Clear area around Park Name is permitted
within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction details

Small Amenity Identification Sign (with regulatory info)

Primary Use
Identification of an amenity within a park.
(dog walk area, shelter, playground, etc.)

Layout Contents
Name of the amenity (Garamond Bold font)
White text with Sky Blue background
May include appropriate regulatory text and symbols (Franklin Gothic font)
Text height should be 1/8" and larger for readability

Logos
Open Space logo
PPC Logo
City Shield - Regulatory with 311 information

Exclusion Zone (shown in red)
1" border where text/graphics are prohibited
Clear area around Park Name is permitted
within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction details
Large & Small Amenity Identification Signs

Sign Panel
- 3mm Dibond PE aluminum composite material (ACM)
- Apply printed vinyl to sign faces.

Hardware
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12” to 18” OC.
- Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

Graphics
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

Post
- 2”x2” or 3”x3” square aluminum tube.
- Paint Color: 3, Black
- Provide cap at top of post.
- See section 6 for cap spec.

Foundation
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2” below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges. No sharp corners.
Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8” radius at the corner of the panel.

GENERAL NOTE
These Drawings Provide Design Intent Only. The City of Commission/Parcels/Parcels of the City of Design, Inc., shall be responsible for structural design of the sign and coordination with all other utilities. The City of Commission/Parcels/Parcels of the City of Design, Inc., shall be responsible for all other utilities. The City of Commission/Parcels/Parcels of the City of Design, Inc., shall be responsible for all utilities required for installation of all signs. "install as found" was noted. All installations are to be performed in accordance with the City of Commission/Parcels/Parcels of the City of Design, Inc., standards and specifications.
Flag Mounted Amenity Identification Signs

Primary Use
Identify an amenity or destination within a park

Layout Contents
Name of the destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Text should be center justified and centered on the sign face.
Include any necessary symbols

Logos
This sign type does not include logos

Exclusion Zone (shown in red)
1" border (large sign) & 1/2" border (small sign) where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction detail
Projecting Sign

Hardware
1"x1" angle

Sign panel

Adhesive
Wall

Section A

1" x 1"

1'-4"

9"

Visitor Center

Restrooms

Enlarged Elevation

Note: All sign panels are to have eased edges. No sharp corners. Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.

Sign Panel
- 3mm Dibond PE aluminum composite material (ACM)
- Apply printed vinyl to sign faces.

1" x 1"
- Attach to wall with appropriate stainless or galvanized wall anchors.
- Paint Color: 3, Black

Hardware
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 4" OC.

Graphics
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

GENERAL NOTE
These drawings provide design intent only. The Sign Construction Details and Final Sign Details differ and no not constitute contract documents. The final design and dimension are subject to change based on the results of the Final Construction Review. The construction of signs is subject to the provisions of the City of Phoenix Code, the ADA guidelines, and the architectural standards of the facility. The design and construction of each sign is subject to the approval of the City of Phoenix and the Architectural Board of Review. The final design and dimensions are subject to change based on the results of the Final Construction Review. The sign construction is subject to the provisions of the City of Phoenix Code, the ADA guidelines, and the architectural standards of the facility. The design and construction of each sign is subject to the approval of the City of Phoenix and the Architectural Board of Review.
Interpretive Signs - Kiosk

Only placed at major entrances and areas with high foot traffic

Primary Use
Contains interpretive information about an exhibit, destination or park feature.
May also contain an upcoming events bulletin, calendar or other posted information at the discretion of park administrators.

Layout Contents
Titles/headings are to be Garamond Bold font
Body text should be Franklin Gothic font
White text with Sky Blue background and photos/illustrations
Text height should be 1/8” and larger for readability
All sign content is to be developed by park administrators.

Logos
PPC Logo

Exclusion Zone (shown in red)
1” border where text/graphics are prohibited. Images may bleed to the edge of the panel, but text must obey the 1” Exclusion Zone.
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction detail

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Interpretive Signs - Double Post

Primary Use
Contains interpretive information about an exhibit, destination or park feature.
May also contain an upcoming events bulletin, calendar or other posted information at the discretion of park administrators.

Layout Contents
Titles/headings are to be Garamond Bold font
Body text should be Franklin Gothic font
White text with Sky Blue background and photos/illustrations
Text height should be 1/8” and larger for readability
All sign content is to be developed by park administrators.

Logos
PPC Logo

Exclusion Zone (shown in red)
1” border where text/graphics are prohibited. Images may bleed to the edge of the panel, but text must obey the 1” Exclusion Zone.
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction detail
**Interpretive Signs - Kiosk**

**Section A**
- Mid-Post 3" diameter
- 120°

**Top View**
- 120°
- 120°
- 120°

**Exploded View**
- Globe finial
- Cap
- U-channel
- Sign panel
- Frame

**Hardware**
- 2"x2" post

**Sign Panel**
- 3mm Dibond PE aluminum composite material (ACM)
- Attach Sign Panel to frame with mechanical hardware or LORD Adhesive
- Attach to Mid-post with 2"x2" U-channel and appropriate hardware.

**Graphics**
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use.
- Provide an anti-graffiti laminating in high traffic areas. See page 5.1a for details

**Frame**
- 2"x2" square aluminum tube
- Paint Color 3, Black
- Provide cap at top of post.
- See section 6 for cap spec.

**Mid-Post**
- 3" dia. aluminum post. Acts as central hub for three (3) Sign Cabinets. Cap top.
- Paint Color 3, Black
- Attach Finial to top of post.

**Finial**
- Cast Aluminum: Globe Finial for 3" post.
  - www.shopsignaturesstreetscapes.com
  - Globe Finial - Part #FN-0203, or equal
  - Paint Color 3, Black

**Base**
- Mini Americana Base
  - www.shopsignaturesstreetscapes.com
  - Model # BS-035: or equal
  - Paint Color 3, Black

**Foundation**
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

**Note:** All sign panels are to have eased edges. No sharp corners. 
**Eased Edge** = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
**Interpretive Signs - Double Post**

- **Sign Panels**
  - 3mm Dibond PE aluminum composite material (ACM)
  - Attach panels to 2" x 2" square tube posts.

- **Hardware**
  - Stainless steel or galvanized with tamper resistant dome heads.
  - Provide attachment points spaced 12" to 18" OC.
  - Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

- **Graphics**
  - Graphics to be printed on opaque vinyl. See page 5.1a for vinyl spec & details.
  - Apply vinyl to 1st surface of sign faces. Provide UV stable inks for exterior use. Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details.

- **Frame**
  - 2" x 2" square aluminum tube.
  - Paint Color 3, Black.
  - Provide cap at top of post. See section 6 for cap spec.

- **Foundation**
  - Installer to provide adequate foundation to support sign.
  - Footer to be at least 2" below grade.
  - Install deep enough to prevent heaving due to freeze-thaw cycle.

- **Note:** All sign panels are to have eased edges. No sharp corners. **Eased Edge** = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.

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**GENERAL NOTE**

These drawings provide design intent only. The Sign Construction Plans and Specifications of the Kolano Designs is to be responsible for structural design of the sign pole and fabrication of the Sign Frame to meet all applicable requirements. Other panels shall be designed and fabricated to meet all applicable standards and codes, with other guidelines as referenced. The sign industry of permits, standards and inspection.
Double Post Directional Sign

Primary Use
Provide directional information so park visitors can find their way to popular destinations.

Layout Contents
Name of the destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Center justify the arrow on top of the destination name.
Text and arrows should be center justified and centered on the sign face.
Take into account the average distance from sign to reader when determining text height.
Preferred letter height is 3". Text may be larger if the sign is very far from readers.
Minimum letter height is 1.5"
Adjust letter height and arrow height proportionally.

Logos
TBD

Exclusion Zone (shown in red)
2" border where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction details

Single Post Directional Sign

Primary Use
Provide directional information so park visitors can find their way to popular destinations.

Layout Contents
Name of the destination in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Center justify the arrow on top of the destination name.
Text and arrows should be center justified and centered on the sign face.
Take into account the average distance from sign to reader when determining text height.
Preferred letter height is 3". Text may be larger if the sign is very far from readers.
Minimum letter height is 1.5"

Logos
TBD

Exclusion Zone (shown in red)
2" border where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction details
Double Post Directional Signs

**Sign Panel**
- 3mm Dibond PE aluminum composite material (ACM)
- Apply printed vinyl to sign faces.

**Hardware**
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.
- Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

**Graphics**
- Graphics to be printed on opaque vinyl.
- See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use.
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details.

**Post**
- 3"x3" square aluminum tube
- Paint Color 3, Black
- Provide cap at top of post.
- See section 6 for cap spec.

**Foundation**
- Installer to provide adequate foundation/footer to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

**Note:** All sign panels are to have eased edges. No sharp corners.
Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
**Single Post Directional Sign**

- **Sign Panel**
  - 3mm Dibond PE aluminum composite material (ACM)
  - Apply printed vinyl to sign faces
  - Need section view for this sign variation

- **Hardware**
  - Stainless steel or galvanized with tamper resistant dome heads
  - Provide attachment points spaced 12” to 18” OC.
  - Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

- **Graphics**
  - Graphics to be printed on opaque vinyl. See page 5.1a for vinyl spec & details
  - Apply vinyl to 1st surface of sign faces
  - Provide UV stable inks for exterior use
  - Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

- **Post**
  - 2”x2” or 3”x3” square aluminum tube.
  - Paint Color 3, Black
  - Provide cap at top of post. See section 6 for cap spec.

- **Foundation**
  - Installer to provide adequate foundation/footer to support sign.
  - Footer to be at least 2” below grade.
  - Install deep enough to prevent heaving due to freeze-thaw cycle.

- **Note:** All sign panels are to have eased edges. No sharp corners.

**Enlarged Side View**

**Exploded View**

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**GENERAL NOTE**

These drawings/sections are designed and produced by KOLANO Design Inc. and are protected by intellectual property rights. These drawings/sections are not intended to be reproduced or distributed without written permission from KOLANO Design Inc. Copyrighted designs and sections are not intended to be reproduced, sold, licensed, or distributed in any form. All rights reserved.
**Trailhead Identification Sign**

**Primary Use**
Identify a trail and provide information about the trail.

**Layout Contents**
- Name of trail (Garamond Bold font)
- White text with Sky Blue background
- Include appropriate regulatory text and symbols (Franklin Gothic font)
- Text height should be 1/8" and larger for readability
- Sign may include directional text (Franklin Gothic font) with arrows
- Directional message text height should be more than or equal to 1"
- The sign may also include a map of the park. Ensure the map is printed at a scale large enough for the text to be read.

**Logos**
- Open Space logo
- PPC Logo
- City Shield - Regulatory with 311 information

**Exclusion Zone** (shown in red)
- 1" border where text/graphics are prohibited
- Clear area around Park Name is permitted within the Exclusion Zone

**Decorative Elements**
- n/a

See the following section for construction details

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**Metal posts**

**Wood posts**
Trail Identification Signs

Sign Panel
* 3mm Dibond PE aluminum composite material (ACM)
* Apply printed vinyl to sign faces.

Hardware
* Stainless steel or galvanized with tamper resistant dome heads.
* Provide attachment points spaced 12" to 18" OC.
* Use appropriate hardware for metal vs wood posts.
* Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

Graphics
* Graphics to be printed on opaque vinyl. See page 5.1a for vinyl spec & details
* Apply vinyl to 1st surface of sign faces.
* Provide UV stable inks for exterior use
* Provide an anti-graffiti laminating in high traffic areas. See page 5.1a for details

Post (metal)
* 2"x2" square aluminum tube
* Paint Color 3, Black
* Provide cap at top of post. See section 6 for cap spec.

Post (wood)
* 4"x4" treated lumber.

Foundation
* Installer to provide adequate foundation/footer to support sign.
* Footer to be at least 2" below grade.
* Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges. No sharp corners. Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
Trail Markers

Primary Use
Identify trail mileage, name, difficulty level, and directional information if necessary.

Tall version is to include trail mile marker, trail name, difficulty level and an optional directional information panel.

Small version is a mile marker. The top cap is to contain the trail mileage.

Layout Contents
Name of the trail in Garamond Bold font
White text with Sky Blue background
Make text as large as possible on sign.
Center justify the arrow on top of the destination name.
Text and arrows should be center justified and centered on the sign face.
Take into account the average distance from sign to reader when determining text height.
Preferred letter height is 3”. Text may be larger if the sign is very far from readers.
Minimum letter height is 1.5”

Logos
This sign type does not include logos

Exclusion Zone (shown in red)
1/2” border where text/graphics are prohibited

Decorative Elements
n/a

See the following section for construction details
Trail Markers

Post
- 6"x6" treated lumber.
- 5'-6" tall (above grade)
  Installer to determine appropriate length of post to bury below grade for proper support.

Top Cap
- 1/8" thick dibond panel. Cut square to match top of Post.
- Provide C2, Sky Blue vinyl on Top Cap.
- Attach to top of Post with stainless or galvanized hardware.
- Cap is to reduce the amount of water that penetrates the end grain of the wood post.

Sign Panel
- 3mm dibond PE aluminum composite material (ACM)

Hardware
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.

Graphics
- Graphics to be printed on opaque vinyl.
  See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

Foundation
- Installer to provide adequate foundation to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Note: All sign panels are to have eased edges. No sharp corners.
Eased Edge = removing the sharp corner from the sign panel. Less than or equal to 1/8" radius at the corner of the panel.
Regulatory Signs

Primary Use
Display regulatory information (park rules, no parking, reserved parking, etc.)

Layout Contents
Regulatory message in Franklin Gothic Bold font
White text with Shadow Blue background unless otherwise specified.
Appropriate regulatory text and symbols (Franklin Gothic font)
Text height should be 1/8" and larger for readability

Logos
City Shield with 311 information

Exclusion Zone (shown in red)
1/2" border where text/graphics are prohibited
Clear area around Park Name is permitted within the Exclusion Zone

Decorative Elements
n/a

See the following section for construction details
**Regulatory Signs**

**Sign Panel**
- 3mm Dibond PE aluminum composite material (ACM)
- Attach to top of Post with stainless or galvanized hardware

**Hardware**
- Stainless steel or galvanized with tamper resistant dome heads.
- Provide attachment points spaced 12" to 18" OC.
- Always place acorn nut on side of post without sign panel. On double sided signs, place on sign panel that is less likely to be seen.

**Post**
- 2"x2" square aluminum tube
- Paint Color 3, Black
- Provide cap at top of post. See section 6 for cap spec.

**Graphics**
- Graphics to be printed on opaque vinyl. See page 5.1a for vinyl spec & details
- Apply vinyl to 1st surface of sign faces.
- Provide UV stable inks for exterior use
- Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

**Foundation**
- Installer to provide adequate foundation to support sign.
- Footer to be at least 2" below grade.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

**Note:** All sign panels are to have eased edges. No sharp corners.

**Eased Edge** – removing the sharp corner from the sign panel. Less then or equal to 1/8" radius at the corner of the panel.
Plant Marker

Primary Use
Display information about selected plants

Layout Contents
Latin name of the plant (Garamond Italic)
Common name of the plant (Garamond Bold)
Plant species (Garamond Regular)
Plant range (Garamond Regular)
Text should be centered justified on the sign face.

Logos
This sign type does not include logos

Exclusion Zone (shown in red)
1/4" border where text/graphics are prohibited

Decorative Elements
n/a

See the following section for construction details

GENERAL NOTE
THIS DRAWING PROVIDES DESIGN INTENT ONLY.
The KOLANO design Partnership reserves all rights to this design. The design shall be completed by the client. The client assumes all risks should the client not follow applicable construction guidelines when manufacturing the sign, including all permits, labor, and material requirements.

Sign Panel
• 3mm Dibond PE aluminum composite material (ACM)
• Attach to top of Post with stainless or galvanized hardware

Stake
• 1/8" thick aluminum bent at 30° to receive Sign Panel.
• Paint Color 3, Black

Graphics
• Graphics to be printed on opaque vinyl.
See page 5.1a for vinyl spec & details
• Apply vinyl to 1st surface of sign faces.
• Provide UV stable inks for exterior use.
• Provide an anti-graffiti lamination in high traffic areas. See page 5.1a for details

Dwarf American Cranberrybush Viburnum
Viburnum opulus 'Compactum'
Eastern Canad & Eastern, Midwestern & Southern US

Sign panel
Hardware
Stake

24" x 3 1/8" x 5"
Sign Footer Details

Concrete Footer
- Provide adequate concrete footer to support sign in given soil conditions.
- Top of footer to be 2" below grade level.
- Install deep enough to prevent heaving due to freeze-thaw cycle.

Breakaway Post
- 2.5" x 2.5" channel or equal set into concrete footer with 4" to 6" of post exposed above grade.
- Buried 2.5"x2.5" post to receive 2"x2" post.
- Attach 2.5"x2.5" x 2"x2" posts with stainless, tamper resistant hardware.
- Post is designed to break away from the base when hit with a car.

Attached to Concrete
- 2"x2" channel welded or securely attached to a mounting plate. Attach mounting plate to concrete with appropriate hardware. Trim hardware to be flush with top of nut or use acorn nut.

Note
- Provide 4" deep #57 aggregate below signs that require a new concrete footer.

Concrete Footer with Breakaway Post
- Provide 4" deep #57 aggregate

Concrete Footer without Breakaway Post
- Provide 4" deep #57 aggregate

Direct Burial without Concrete Footer
- Use crushed gravel to stabilize soil.

Attached to Concrete
Fence Attachment Details

Attachment
- Sandwich the sign panel and back panel or 2" wide flat aluminum bar around fence and secure as specified with mechanical hardware.

Section A
- Fence
- Back Panel
- Acorn nut
- Sign Panel

Section B
- Wrought Iron Fence
- Acorn nut
- Back Panel
- Sign Panel

Front Elevation
- Wrought Iron Fence

Front Elevation
- Chainlink Fence

Rear Elevation
- (with back panel)

Rear Elevation
- (no back panel)

Emerald View Park

General Note:
These drawings provide design intent only. The Site Construction Plan shall be reviewed and approved by the City of Irvine. Wrought Iron Fences shall be installed in accordance with the specifications and drawings provided by the City of Irvine. The use of cast iron or aluminum in the production of the fence panels is prohibited. The use of any other material not specifically approved by the City of Irvine is prohibited.
Sign Maintenance Standards

The following are recommendations for repair and replacement to ensure the sign system continues to function the way in which it was designed.

Screws and bolts must be tightened periodically. Check for missing screws, nuts and bolts. Since these tend to get lost during maintenance procedures.

Damaged bolts and screws must be replaced immediately.

Review signs for structural wear or damage, i.e., rusting that threatens the structural integrity of the sign. Damaged signs that may present a hazard should be removed and replaced immediately.

The following conditions may shorten the lifespan, damage or destroy a sign or its components. Consider these factors when placing a sign. If it is not possible to avoid these factors, consider materials more suitable to withstand their effects.

**Heat**
Heat can cause coatings to discolor, fade, blister and burn off.

**Moisture**
This problem may include exposure to steam, humidity, condensation or immersion in water. Moisture can warp, corrode and dissolve sign components and coatings.

**Impact**
Coatings and sign components may chip, scratch or break if impacted by debris and larger objects, such as mowers, sports equipment, cars, etc.

**Sun Damage**
Certain materials last longer than others under prolonged exposure to the sun's ultraviolet radiation. Consider material application for signs under constant, direct sunlight.

**Bonding metal to metal with adhesive**
Certain sign construction procedures in the manual call for attaching two or more metal surfaces with adhesive. The following list of adhesives may be suitable for the job:

- LORD 406
- 3M 0811S panel bonding adhesive
- JB Weld
- OZ Welder Professional Adhesive 730657

**Aluminum & Painted Aluminum**
Aluminum surfaces are easily cleaned using mild soaps, detergents or solvents applied to the surface with a soft cloth or sponge. For more stubborn stains, solvents such as Bestine or acetone may be applied to the surface with a soft cloth. Quickly wipe the stained area, allowing the solvent on the sign to fully evaporate before wiping again. However, extensive use of acetone may cause painted surfaces to fade and lose their luster. Observe all state local guidelines for using such substances.

**Acrylic Letters and Vinyl Signs**
Letters and vinyl can be cleaned with a soft cloth and a commercial glass cleaner. Do not use cloths containing grit, abrasive particles or scouring compounds to clean plastic, as they will scratch and damage the sign surface.

**AVOID USING ACETONE OR OTHER HARSH CHEMICALS ON VINYL.**
Use graffiti removal product appropriate to anti-graffiti lamination spec

Damage to signs may be reported by calling the City of Pittsburgh 311 Response Center.

**Sign Removal, Replacement & Recycling**
The modular nature of the sign system allows for component parts to be replaced as they are updated or if they become damaged.

Save and refurbish any materials such as hardware, posts or panels that are in acceptable condition. Acceptable condition means objects are free of corrosion, dents, bends, fading, abrasive damage, etc.

Entire signs may be replaced if they become damaged or vandalized.

Do not leave remnants of the sign's footers/foundation or posts. Remove all components of the sign and return the landscape to its previous condition. Fill and grade any holes left in the landscape after a sign and its footers/foundation have been removed.

Most of the sign components are aluminum or steel and can be sent to a scrap yard instead of a landfill.
Materials

**Dibond Panels**
- 3mm thickness (1/8" thick)
- Panels may be cut to size by the supplier

**Orafol 240 Series Vinyl**
Use this vinyl unless otherwise noted
- Currently used by the City Sign Shop.
- Does not conform to the Living Building Challenge
- Includes an anti-graffiti layer
- *10 year durability
- Where sustainability goals are higher, use 3M 480 Series.

**3M 480 Series Vinyl**
This vinyl is for specialty projects where PVC is not allowed.
- For example, the Frick Environmental Center.
- Vinyl that adheres to the RED List for the Living Building Challenge
- Does not include an anti-graffiti layer
- *11 year durability

**Graffiti Overlaminate**
- Oracal 240 Anti-Graffiti Overlay
- Use on signs in high traffic areas, areas that are far from main roads, and areas that are known for being defaced.

*Product durability depends on condition of substrate, sun exposure, and freeze/thaw cycles*
**Materials**

- **2" x 2" Aluminum Post**
  - (non-painted)
  - See details for length
  - Fastener holes shall be pre-drilled in posts.

- **3" & 4" diameter round posts**
  - See sign construction details for length
  - Pre-drill fastener holes prior to installation.

- **Black Acorn Nuts**
- **Black Domed Screws**

- **4" x 4" Treated Wood Post**
  - See details for length
  - Fastener holes shall be pre-drilled in posts.

- **6" x 6" Treated Wood Post**
  - See details for length
  - Fastener holes shall be pre-drilled in posts.

- **White Domed Screws**
  - (only use on mile marker posts)

- **FastenMaster HeadLok Screws**
  - (model # FAHLGM278-12)

- **2" x 2" U-Channel (galvanized or aluminum)**
  - See details for length
  - Fastener holes shall be pre-drilled in channel

- **Wall Anchor**

**Fasteners**
- Shall be hot-dipped galvanized or stainless, unless noted.
Decorative Elements

**Cast Aluminum Globe Finial**
Model # SC-73-F34-B - for 4" OD poles, or equal
Sign Bracket Store - 888-919-7446
6088 Corte del Cedro
Carlsbad, CA 92011

**Decorative Base Cover**
Model # DBC4/HBC1 - for 4" OD poles, or equal
Kim Lighting - 626-968-5666
16555 East Gale Avenue
City of Industry, CA 91745

**Globe Finial**
Model # FN-003 - for 3" OD poles, or equal
Signature Streetscapes - 800-705-1446
6088 Corte Del Cedro
Carlsbad, CA 92011

**Mini Americana Base**
Model # BS-03F - for 3" OD poles, or equal
Signature Streetscapes - 800-705-1446
6088 Corte Del Cedro
Carlsbad, CA 92011

*Specialty hardware will require painting to match sign post.*
Component Inventory

4”x4” wood post
12’-0” length
pressure treated wood
Home Depot
$15

6”x6” wood post
16’-0” length
pressure treated wood
Home Depot
$30

2”x2” Post
aluminum square tube
.125” wall thk x 24’ long
Pioneer Supply
$110

3”x3”” Post
aluminum square tube
.125” wall thk x 21’ long
https://www.metalsdepot.com/aluminum-products/aluminum-square-tube
$175

4” dia round Post
3-1/2” SCH 40 (4.00 OD X .226 wall)
steel - 21’ length
https://www.metalsdepot.com/steel-products/steel-pipe
$300

3” dia round Post
2-1/2” SCH 40 (2.875 OD X .203 wall)
steel - 21’ length
https://www.metalsdepot.com/steel-products/steel-pipe
$175

Dibond Panel
3mm thickness
5’x10’
$225ea - $4.50/sf

Slip Over Direct Sign Mount Bracket for 3” Post
Sign Bracket Store
$40ea

Direct Sign Mount with Post Clamps
Sign Bracket Store
$40ea

Globe finial
for 3” OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsignaturestreetscapes.com
$35

Globe finial
for 4” OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsignaturestreetscapes.com
$40

Decorative Base Cover - Kim Lighting
for 4” OD posts
Yesco Supply
$375

Mini Americana Post Base
for 3” OD posts
www.shopsignaturestreetscapes.com
$85

End Cap for 2”x2” Post
MOCAP part #SQ2CBK1
$2.50ea

End Cap for 3”x3” Post
MOCAP part #SQ3KBK1
$5.00ea
Estimated Material Costs

Globe finial for 4" OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsgesturestreescapes.com
$40

4" Post
3-1/2" SCH 40 (4.00 OD X .226 wall)
steel - 21' length
https://www.metaldepot.com/steel-products/steel-pipe
$300

Dibond Panel
http://www.tri-dee.com/Dibond%20Aluminium%2DComposite%2Dpanels.htm
3mm thickness
5'x10'
$225ea - $4.50/sf

Decorative Base Cover - Kim Lighting
for 4" OD posts
Yesco Supply
$375

Slip Over Direct Sign Mount Bracket for 4" Post
Sign Bracket Store - custom order item
$50ea x 7 = $350

3M 480 film
solvent base inks
4'x 13 linear feet = $50

Allowance for Hardware, Concrete Foundation, Printer Inks
$300

$1,650 (approximate material cost only)

Primary Single Post Freestanding Identification Sign

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Globe finial for 3" OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsgesturestreescapes.com
$35

3" Post
2-1/2" SCH 40 (2.875 OD X .203 wall)
steel - 21' length
https://www.metaldepot.com/steel-products/steel-pipe
$175

Dibond Panel
http://www.tri-dee.com/Dibond%20Aluminium%2DComposite%2Dpanels.htm
3mm thickness
5'x10'
$225ea - $4.50/sf

Mini Americana Post Base
for 3" OD posts
www.shopsgesturestreescapes.com
$85

Slip Over Direct Sign Mount Bracket for 3" Post
Sign Bracket Store
$40ea x 4 = $160

3M 480 film
solvent base inks
4'x 8 linear feet = $25

Allowance for Hardware, Concrete Foundation, Printer Inks
$200

$900 (approximate material cost only)

Secondary Single Post Freestanding Identification Sign
Estimated Material Costs

Globe finial
for 4" OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsignaturestreetscapes.com
$40 x 2 = $80

3" Post
2-1/2" SCH 40 (2.875 OD X .203 wall)
steel - 21" length
https://www.metaldepot.com/steel-products/steel-pipe
$175

Dibond Panel
3mm thickness
5' x 10'
$225ea - $4.50/sf

Slip Over Direct Sign Mount Bracket for 3" Post
Sign Bracket Store
$40ea x 4 = $160

3M 480 film
solvent base inks
4' x 16 linear feet = $50

Allowance for Hardware, Concrete Foundation, Printer Inks
$200

$900 (approximate material cost only)

Primary Single Post Freestanding Identification Sign
Estimated Material Costs

**Dibond Panel**
3mm thickness
5’x10’
$225ea · $4.50/sf

**3M 480 Film**
solvent base inks
4’x 8 linear feet = $25

**Allowance for Hardware & Printer Inks**
$150

**3”x3” Post**
aluminum square tube
.125” wall thk x 21” long
https://www.metaldepot.com/aluminum-products/aluminum-square-tube
$175

**Dibond Panel**
3mm thickness
5’x10’
$225ea · $4.50/sf

**3M 480 Film**
solvent base inks
4’x 6 linear feet = $20

**Allowance for Hardware, Concrete Foundation, Printer Inks**
$150

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**$400** (approximate material cost only)

**$570** (approximate material cost only)

**Boundary Identification Sign Attached to Existing Post**

**Large Amenity Identification Sign**
Estimated Material Costs

2"x2" Post
aluminum square tube
.125" wall thk x 24' long
Pioneer Supply
$110

Dibond Panel
3mm thickness
5'x10'
$225ea - $4.50/sf

3M 480 film
solvent base inks
4' x 1.5 linear feet = $10

Allowance for Hardware, Concrete Foundation, Printer Inks
$100

$350 (approximate material cost only)

Small Amenity Identification Sign

2"x2" Post
aluminum square tube
.125" wall thk x 24' long
Pioneer Supply
$110

Dibond Panel
3mm thickness
5'x10'
$225ea - $4.50/sf

3M 480 film
solvent base inks
4' x 6 linear feet = $20

Allowance for Hardware, Concrete Foundation, Printer Inks
$200

$550 (approximate material cost only)

Double Post Boundary Identification Sign
Estimated Material Costs

Dibond Panel
3mm thickness
5’x10’
$225ea. - $4.50/sf x 4sf = $20

3M 480 film
solvent base inks
4’x 1 linear feet = $15

Allowance for Hardware, Printer Inks, Aluminum Angle
$50

$85 (approximate material cost only)

Large Flag Mounted Identification Sign

Dibond Panel
3mm thickness
5’x10’
$225ea. - $4.50/sf x 4sf = $20

3M 480 film
solvent base inks
4’x 1 linear feet = $15

Allowance for Hardware, Printer Inks, Aluminum Angle
$50

$85 (approximate material cost only)

Small Flag Mounted Identification Sign
Estimated Material Costs

3” Post
2-1/2’ SCH 40 (2.875 OD X .203 wall)
steel - 21’ length
https://www.metalsdepot.com/steel-products/steel-pipe
$175

Globe finial
for 3” OD posts
Verify fitment (called but person on phone was not convincing)
www.shopsignaturestreetscapes.com
$35

Mini Americana Post Base
for 3” OD posts
www.shopsignaturestreetscapes.com
$85

2”x2” Post
aluminum square tube
.125” wall thk x 24” long
Pioneer Supply
$110 x 2 = $220

Dibond Panel
3mm thickness
5’x10’
$225ea x 2 5x10 sheets - $450

3M 480 film
solvent base inks
4’ x 30 linear feet = $100

Allowance for Hardware, Concrete Foundation, Printer Inks, Aluminum Angle
$250

$1,300 (approximate material cost only)

Dibond Panel
3mm thickness
5’x10’
$113

2”x2” Post
aluminum square tube
.125” wall thk x 24” long
Pioneer Supply
$110

3M 480 film
solvent base inks
4’ x 4 linear feet = $15

Allowance for Hardware, Concrete Foundation, Printer Inks, etc.
$200

$450 (approximate material cost only)

Large Flag Mounted Identification Sign

Small Flag Mounted Identification Sign
## Estimated Material Costs

<table>
<thead>
<tr>
<th>Size</th>
<th>Dibond Panel</th>
<th>Dibond Panel</th>
<th>Dibond Panel</th>
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<tr>
<td>Fountain</td>
<td>3mm thickness</td>
<td>3mm thickness</td>
<td>3mm thickness</td>
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<td>Playground</td>
<td>5' x 10'</td>
<td>5' x 10'</td>
<td>5' x 10'</td>
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<tr>
<td></td>
<td>$225ea</td>
<td>$225ea</td>
<td>$225ea</td>
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<tr>
<td>Large</td>
<td>2&quot; x 2&quot; Post</td>
<td>2&quot; x 2&quot; Post</td>
<td>2&quot; x 2&quot; Post</td>
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<td>aluminum square tube</td>
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<tr>
<td></td>
<td>.125&quot; wall thk x 24' long</td>
<td>.125&quot; wall thk x 24' long</td>
<td>.125&quot; wall thk x 24' long</td>
</tr>
<tr>
<td></td>
<td>Pioneer Supply</td>
<td>Pioneer Supply</td>
<td>Pioneer Supply</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>Medium</td>
<td>3M 480 film</td>
<td>3M 480 film</td>
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<td></td>
<td>solvent base inks</td>
<td>solvent base inks</td>
<td>solvent base inks</td>
</tr>
<tr>
<td></td>
<td>4' x 12 linear feet = $40</td>
<td>4' x 9 linear feet = $30</td>
<td>4' x 4 linear feet = $15</td>
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<tr>
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<td>Allowance for Hardware, Concrete Foundation, Printer Inks $200</td>
<td>Allowance for Hardware, Concrete Foundation, Printer Inks $200</td>
<td>Allowance for Hardware, Concrete Foundation, Printer Inks $175</td>
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<td>Small</td>
<td>$800 (approximate material cost only)</td>
<td>$575 (approximate material cost only)</td>
<td>$525 (approximate material cost only)</td>
</tr>
</tbody>
</table>

**Double Post Directional Signs**
Estimated Material Costs

**3” x 3” Post**
- aluminum square tube
- 0.125” wall thk x 21’ long
- $175

**Dibond Panel**
- 3mm thickness
- 5’ x 10’
- $225ea - $4.50/sf

**3M 480 film**
- solvent base inks
- 4’ x 6 linear feet = $20

**Allowance for Hardware, Concrete Foundation, Printer Inks**
- $150

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**2” x 2” Post**
- aluminum square tube
- 0.125” wall thk x 24’ long
- Pioneer Supply
- $110

**Dibond Panel**
- 3mm thickness
- 5’ x 10’
- $225ea - $4.50/sf - $15

**3M 480 film**
- solvent base inks
- 4’ x 1 linear feet = $5

**Allowance for Hardware, Concrete Foundation, Printer Inks**
- $150

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**Single Post Directional Sign**

**Regulatory Signs**

**$570** (approximate material cost only)

**$300** (approximate material cost only)
## Estimated Material Costs

### Aluminum Posts
- **Dibond Panel**
  - 3mm thickness
  - 5'x10'
  - $225ea
- **2"x2" Post**
  - aluminum square tube
  - .125" wall thk x 24" long
  - Pioneer Supply
  - $110
- **3M 480 film**
  - solvent base inks
  - 4' x 4 linear feet = $15
- Allowance for Hardware, Concrete Foundation, Printer Inks = $200

Total for Aluminum Posts = **$550** (approximate material cost only)

### Wood Posts
- **Dibond Panel**
  - 3mm thickness
  - 5'x10'
  - $225ea
- **4"x4" wood post**
  - 12'-0" length
  - pressure treated wood
  - Home Depot
  - $15 x 2 = $30
- **3M 480 film**
  - solvent base inks
  - 4' x 4 linear feet = $15
- Allowance for Hardware, Concrete Foundation, Printer Inks = $150

Total for Wood Posts = **$425** (approximate material cost only)

### Trail Signs
- **6"x6" wood post**
  - 16'-0" length
  - pressure treated wood
  - Home Depot
  - $50
- **Dibond Panel**
  - 3mm thickness
  - 5'x10'
  - $225ea - $4.50/sf - $10
- **3M 480 film**
  - solvent base inks
  - 4' x 1 linear feet = $5
- Allowance for Hardware, Concrete Foundation, Printer Inks = $150

Total for Trail Signs = **$215** (approximate material cost only)