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DATE: December 14, 2016

FROM: Pilar LaValley, Preservation Planner, (415) 575-9084

REVIEWED BY: Tim Frye, Historic Preservation Officer

RE: Ghirardelli Square Design Guidelines

Attached please find Design Guidelines for Ghirardelli Square, dated November 10, 2016, prepared by Page & Turnbull, Inc. These Design Guidelines have been reviewed and accepted by Preservation staff of the Planning Department as the recommendations contained herein appear to be consistent with Article 10 and the Secretary of the Interior's Standards.

The Design Guidelines were developed by Jamestown, L.P. with assistance and support from the San Francisco Planning Department. The Design Guidelines are intended to provide guidance on compatible exterior alterations and to inform exterior changes and design approaches to unify the exterior expression of the Landmark property. The consistent application of these guidelines is also intended to simplify the review and approval process for projects that require a Certificate of Appropriateness.

The Ghirardelli Square Design Guidelines should be reviewed by anyone proposing exterior alterations or improvements on the property.

GHIRARDELLI SQUARE
SAN FRANCISCO, CALIFORNIA

DESIGN GUIDELINES
[13232]

JAMESTOWN

h+k

PAGE & TURNBULL
imagining change in historic environments through design, research, and technology

NOVEMBER 10, 2016

FINAL

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INTRODUCTION

At the request of Jamestown, L.P., Page & Turnbull, HOK, HLB Lighting and Ross Luthin have prepared these Design Guidelines for alterations at Ghirardelli Square. The guidelines have been developed to inform proposed improvements and to facilitate the review process by the San Francisco Planning Department. This document identifies significant and contributing character-defining features at Ghirardelli Square. These Guidelines provide recommendations and guidance for future improvements at Ghirardelli Square with the goal of protecting the historic integrity of the resource.

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PURPOSE & PROCESS

North Point facade, 1919 (Calisphere)

PURPOSE

Jamestown, L.P. developed these Design Guidelines for Ghirardelli Square with assistance and support from the San Francisco Planning Department. The Design Guidelines are intended to provide guidance on compatible exterior alterations at Ghirardelli Square, to inform exterior changes and design approaches as well as express the owners' intentions for future alterations. Recommendations in the Design Guidelines address many aspects of the site, from tenant signs to paving materials, and their application is intended to reduce the use of inappropriate and incompatible materials, remove physical and visual clutter throughout the site by providing consistent and effective wayfinding and tenant signage, improve circulation and accessibility, and protect and preserve original features and fabric and the historic character of Ghirardelli Square. The consistent application of these Guidelines is also intended to simplify the review and approval process for projects that require a Certificate of Appropriateness.

These Guidelines are intended to be consistent with Article 10 and the Secretary of the Interior's Standards for the Treatment of Historic Properties. They will inform exterior changes and design approaches as well as express the owners' intentions for future alterations. These Guidelines address:

- Building entrances
- Building storefronts and window walls
- Exterior building and site finishes and materials
- Signage
- Canopies and awnings
- Outdoor lighting
- Outdoor furniture
- Railings
- Stairs and ramps
- Landscape and plant materials

This document is meant to recognize original features and identify compatible new features/finishes for some of the more typical exterior alterations. Ultimately the Guidelines will provide guidance to unify the exterior expression of the Square.

PROCESS

Tenant's architect, graphic designer, and special consultant will prepare drawings for all exterior alterations and improvements. Improvements within the scope of an Administrative Certificate of Appropriateness and consistent with these guidelines will be submitted to Planning Staff for review and approval. Improvements beyond the scope of an Administrative Certificate of Appropriateness will follow the process for a Certificate of Appropriateness and will go before the HPC for review and approval.

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HISTORIC CONTEXT

The Ghirardelli Square property is landmark number 30 for San Francisco and is located at 900 North Point Street [APN 0452/002-011 (three lots)] in San Francisco, California (Figure 1). The property consists of thirteen distinct buildings located on the block bounded by North Point, Larkin, Polk and Beach streets along San Francisco's Northern Waterfront. Ghirardelli Square was listed in the National Register of Historic Properties in 1982. Ghirardelli Square is an outstanding example of early adaptive re-use in America and has been noted for its synthesis of modern architectural design with historical building fabric.

Originally the site of Pioneer Woolen Mills, the property became the base of operations for chocolate confectioner, Domingo Ghirardelli, in 1893. After the departure of the chocolate factory, Ghirardelli Square was rehabilitated into one of America's first festival marketplaces in the 1960s, by architects Wurster, Bernardi and Emmons, with Lawrence Halprin as landscape architect. Their work rehabilitated existing buildings and integrated new buildings, while addressing the slope in topography with terraces.

The National Register Nomination lists three periods of significance:

1) 1858 – 1889 (Woolen Mill). Character-defining features for the Woolen Mill include:
   a. Rectangular form and massing;
   b. Gable-shaped roof;
   c. Red brick exterior;
   d. Timber construction;
   e. Fenestration pattern;
2) 1892 – 1962 (D. Ghirardelli Chocolate Company). Character-defining features for this period include:
   a. Rectangular form and massing;
   b. Red brick exterior;
   c. Cement plaster accent trim;
   d. Regular fenestration pattern;
   e. Original steel and wood windows;
   f. Timber construction;
   g. Decorative Entries;
   h. Crenellated parapets.
3) 1962 – 1967 (Ghirardelli Square). Character-features for this period include:
   a. Red sand-mold brick;
   b. Steel frame and glass walls;
   c. Festive lighting;
   d. Board form concrete walls (landscape);
   e. Metal Railings;
   f. Roof forms, including the flat roofs of the pavilion buildings and the deck roof (flat-topped, hipped) of the Wurster Building;
   g. Clay tile roof of the Wurster Building.

Since the 1960's development of the complex into Ghirardelli Square, the site has seen a number of substantial alterations and tenant improvements. Though the character of the Square has generally been preserved, the modifications have somewhat impacted the historic context through the use of inappropriate materials, alterations to the original features, and the creation of redundant space. Alterations since the third Period of Significance include:

- Terrace Plaza: Level was raised; steps were added, a secondary ramp was added;
- Fountain Plaza and North Plaza: Replacement of the original paving with red brick;
- Apartment Building: New entry steps and new storefront entry.

View along North Point, 1919 (Online Archive)

Fountain Plaza, 1960s (SFPL)

HISTORIC CONTEXT

First Period of Significance: 1858-1889
Pioneer Woolen Mills circa 1862-1899 at the original shoreline.
(Photo: Bancroft library)

Second Period of Significance: 1892-1962
Ghirardelli complex circa 1911.
The Pioneer Woolen Mills were originally built in 1862. Between 1893 and 1919, the D. Ghirardelli company developed the site with several new buildings.

Third Period of Significance: 1962-1967
Ghirardelli Square 1965.
The Property was designed for adaptive reuse and rebranded as Ghirardelli Square, by Lawrence Halprin and architects Wurster, Bernardi and Emmons.

ARTICLE 10 REQUIREMENTS

SECRETARY OF THE INTERIOR'S STANDARDS

As a landmark of the City of San Francisco, Ghirardelli Square is subject to the requirements of Article 10 of the San Francisco Planning code. Article 10 is intended to protect and preserve significant historic and cultural resources in San Francisco. Alterations must comply with the Secretary of the Interior's Standards for the Treatment of Historic Properties.

The Standards:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.
7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

CERTIFICATE OF APPROPRIATENESS

Exterior alterations require review by the San Francisco Planning Department. Minor exterior alterations may be approved by Planning Department Staff via an Administrative Certificate of Appropriateness. Major alterations require a Certificate of Appropriateness and approval by the San Francisco Historic Preservation Commission (HPC).

The Planning Department maintains an updated list of scopes that qualify for an Administrative Certificate of Appropriateness.

View looking southwest at Larkin and Beach streets, 1960s (Calisphere)

View looking west from Fountain Plaza, 1960s (Environmental Design Archives)

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SITE OVERVIEW

SITE OVERVIEW

Ghirardelli Square is located on the San Francisco Bay at 900 North Point Street. It is on the west side of Fisherman's Wharf, two blocks east of Van Ness Avenue and one block west of the cable car turnaround at Beach and Hyde streets. There are two primary pedestrian access points into Ghirardelli Square, both with original character-defining features: the corner of Beach and Larkin Streets where an original historic planter has been retained and on Larkin Street where an original 1960's era arched sign marks the entry. There are two secondary entrances, at Beach Street near Polk Street and at North Point Street. The hardscape connecting the buildings is part of the 1960s work. The layout retains many features from the 1960s though there have been several alterations to the site.

Main entries into Ghirardelli Square at Larkin and Beach Streets. 1960s (Environmental Design Archives)

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BUILDING ENTRANCES

HISTORIC CONTEXT:
ORIGINAL BUILDINGS DATING FROM THE FIRST AND SECOND PERIODS OF SIGNIFICANCE (1858-1962)

The existing exterior entrances at Ghirardelli Square vary in style and material, especially those located at the original masonry buildings. At the masonry buildings, door styles range from multi-lite wood doors to simple metal-framed glass doors. Existing doors are mostly non-original.

An early photograph that dates from around the early 1900s shows a paneled wood door at the North Point Street entry of the Mustard Building. The original drawings for the Apartment Building indicate that the original doors were paneled wood doors with a multi-lite panel in the upper half of the door. Alterations in the 1960s included replacement of the original wood doors with more transparent store-front style doors that were amenable to the retail use.

RECOMMENDATIONS

The original buildings at Ghirardelli Square were industrial buildings. Compatible replacement doors should therefore avoid excessive ornamentation. To the extent possible, doors should be placed within existing openings.

Materials:

- Appropriate materials include wood, painted steel, anodized aluminum, and glass
- Highly reflective or shiny materials such as clear coat aluminum or stainless steel are not appropriate.

Style:

- Replacement doors should be simple in style, with little or no ornamentation
- Doors along the same façade should be compatible to one another
- Doors within original openings in masonry walls may be either wood or metal framed glass doors
- Frameless doors were not installed during the site's periods of significance and are generally not encouraged.

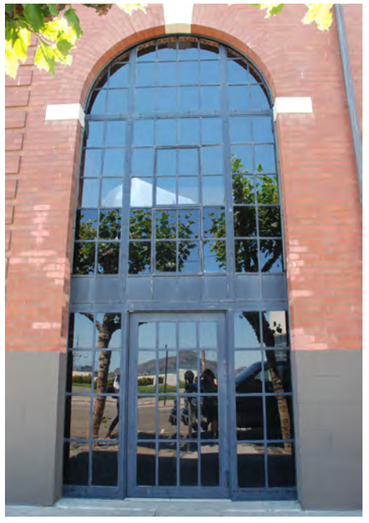
Hardware:

- Hardware should be simple and meet ADA requirements
- Hardware should be compatible with door style

Apartment Building, Original Drawing: The main entry doors were wood panel doors with a multi-lite panel at the upper half.

Mustard Building: The original doors were wood panel doors.

Mustard Building: Entry door was replaced on the north facade with a storefront door (Environmental Design Archives)



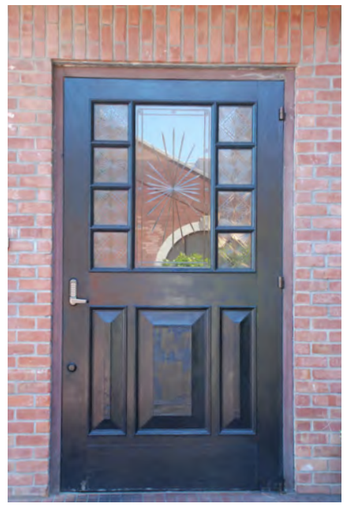
Power House: This door appears to be original and is a good example an industrial style door

BUILDING ENTRANCES

These steel replacement doors are compatible with the industrial character of the Woolen Mill and are therefore appropriate

Wood entry doors at tenant space at the Clock Tower are appropriate.

The wood panel style of this door is not compatible with the framed surround.



Door with excessive ornamentation is inappropriate.

The contemporary entry door at the Chocolate Building entrance is well proportioned and uses materials compatible with the building.

The style of the door/storefront system is appropriate. However, a darker color such as bronze or black would be more in keeping with the Power House's industrial character.

Frameless doors at the Mustard Building.

BUILDING ENTRANCES

HISTORIC CONTEXT: BUILDINGS CONSTRUCTED DURING THE THIRD PERIOD OF SIGNIFICANCE (1960S)

The buildings added to the site in the 1960s were generally contemporary and had simple storefront style doors which fit within the context of Ghirardelli Square. The storefronts and entry doors conveyed a transparent aesthetic that was appropriate for retail use. The storefronts were framed and had narrow stiles and rails. The entry doors were dark in tone, similar to the storefronts.

RECOMMENDATIONS

The follow recommendations are for storefront entrances.

Materials:

- Appropriate materials include painted steel, coated aluminum, anodized aluminum, and glass
- Shiny materials such as stainless steel should be avoided

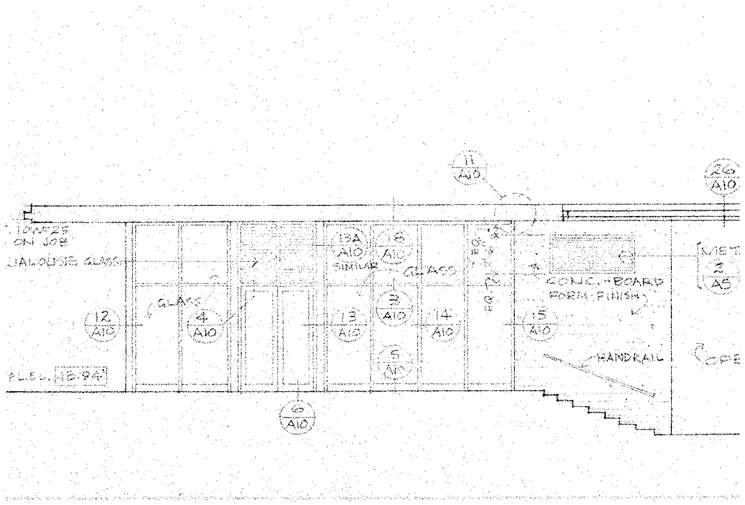
Style:

- Framed doors are recommended
- Narrow stiles and rails are recommended
- Doors within storefront walls should have frames that are compatible with the existing storefront and should match the existing storefront frame width and color

Hardware:

- Hardware should be simple and meet ADA requirements
- Hardware should be compatible with door style

Storefront Entry at the Gateway: the entry was designed to fit within the rhythm of the framing



Pavilion Building: Original drawing. Doors line up with horizontal mullion and have narrow stiles and rails

Gateway Shop: Entrance doors have fairly narrow stiles and rails. Their dark color is consistent with the storefront color.

These entrance doors do not match the character of the rest of the storefront. They are lighter in tone and have wider stiles and rails compared to the storefront.

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BUILDING STOREFRONTS AND WINDOW WALLS

HISTORIC CONTEXT

The 1960s rehabilitation of Ghirardelli Square introduced new construction with modern storefronts and window walls to the site which until then had consisted of masonry buildings. The Carousel Building has exterior walls that are essentially glass with black steel framing. The Wurster Building Beach Street façade has storefronts set back ten feet behind brick arches and the second floor of the same façade consists of a window wall with bay windows. The small retail pavilions are also notable for having full walls of glass divided by black metal framing members.

In addition to the storefronts, exterior stairs were added to the north facades of the Chocolate, Cocoa, and Mustard Buildings. The stairs have glass enclosures divided by steel framing members that are a character-defining feature of Ghirardelli Square. At the Chocolate Building, several pairs of windows were replaced with fixed glazed windows that span two floors. The double-height windows provided views to the Bay as well as an exterior expression of the interior space. They also convey the character of the era in which they were constructed.

The 1960s storefronts and window walls resulted in an aesthetic that is a defining characteristic of Ghirardelli Square. Their transparency provides a modern feel to the Square.

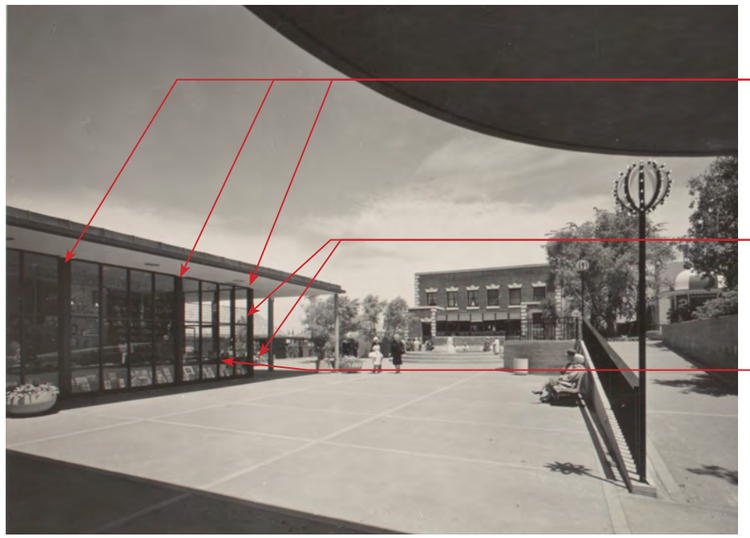
The window walls of the small storefront pavilions are a character-defining feature of Ghirardelli Square

Glass Stair Enclosure at the Cocoa and Chocolate Buildings

Carousel Building and Wurster Building both have glazed storefront walls that face the Bay

The Chocolate Building: Note the large two-story windows walls constructed in the 1960s

BUILDING STOREFRONTS AND WINDOW WALLS



Original Fountain Plaza Shop

1960S FOUNTAIN PLAZA SHOPS

The original Fountain Plaza storefronts had an even bay spacing. Structural elements were hidden by the vertical mullions where the bays met.

The storefront had two horizontal mullions. The top mullion aligned with the top of the doors.

Each bay was vertically divided into four separate, equal panels

Existing Fountain Plaza Shop (Kara's Cupcakes)

EXISTING FOUNTAIN PLAZA SHOPS (NOW KARA'S CUPCAKES)

The storefront bays have a similar width as the original and where the bays meet, the structural elements are hidden by wider mullions

The storefront has one horizontal mullion, aligned with the top of the doors.

Each bay is vertically divided into two, unequal panels

Stair enclosure next to the Cocoa and Chocolate buildings

1960S STAIR GLASS ENCLOSURES

The glass enclosures have a grid of evenly divided panes. The panes are evenly divided both in the vertical and horizontal direction

1960S CHOCOLATE BUILDING WINDOW WALLS

Several original windows of the Chocolate Building were replaced in the 1960s. The windows were replaced with double-height windows that spanned two pairs of windows.

The panes are vertically divided into three panels with one large pane in the middle and two smaller, equal size panes that flank the center pane.

The horizontal divisions align with the original sills, floors and heads of the original windows.

BUILDING STOREFRONTS AND WINDOW WALLS

GALLERY SHOP

The storefront at the Gallery Shop appears to be original and has the original configuration from the 1960s. The storefront has three vertical divisions and one horizontal division. The horizontal division is not aligned with the door header.

GATEWAY SHOP

The original storefronts of the Gateway Shop were recently replaced. Similar to the window walls at the Chocolate Building, the storefront bays at the Gateway Shop are vertically divided in three. At the east side, the vertical panels are evenly divided. At the south side, the center panel is larger then the two flanking panels. This storefront includes several horizontal divisions that appear to divide the storefront in half and introduce a non-transparent spandrel panel above the halfway point. This storefront replacement is appropriate.

COMMON FEATURES

The analysis of the storefronts included a review of the storefronts used at the pavilions, the glass stair enclosures, and large windows at the Chocolate Building that were installed in the 1960s. These features have the following in common:

- Even bay spacing
- Horizontal mullions that divided the vertical bays
- Dark bronze color
- Thicker mullions where structural elements are hidden

RECOMMENDATIONS

Based on an inventory of the original storefronts, the stair enclosures, and the large windows at the Chocolate Building, new storefronts should adhere to the following recommendations:

Materials:

- Painted steel
- Coated or anodized aluminum
- Glass
- Highly reflective or shiny materials such as clear coat aluminum or stainless steel are not appropriate.

Style:

- Even bay and vertical mullion spacing
- Horizontal mullions should be kept to a minimum to maintain an open transparent design
- Replacement storefronts of contributing resources should generally be fixed in place or not operable.

Color:

- Dark colors such as bronze are appropriate

BUILDING STOREFRONTS AND WINDOW WALLS

1960S WURSTER BUILDING

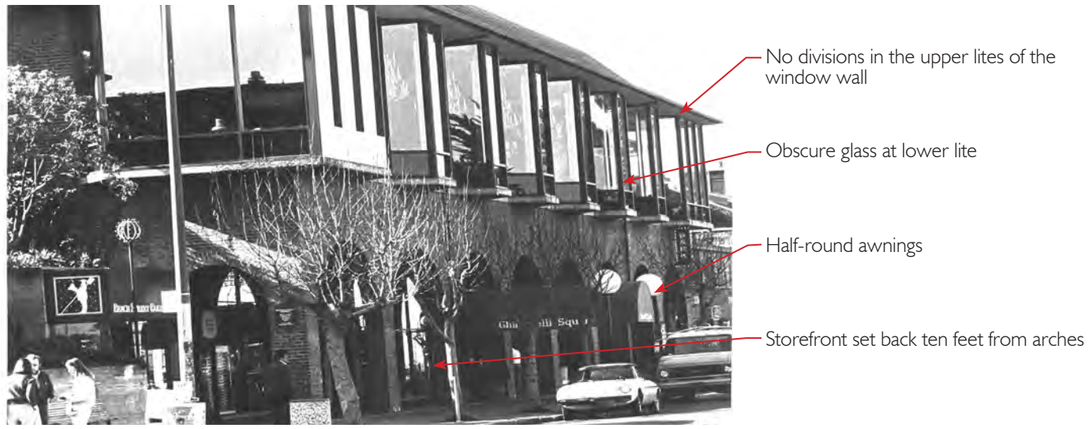
The Wurster Building was constructed in two phases, 1964 and 1968. It was named after William Wurster and is the largest of the buildings constructed in the 1960s. The north facade of the building faces Beach Street. The 1964 portion (eastern portion) of the Wurster Building was originally constructed with an arcade at street level and glass storefronts that were set back ten feet behind the arches. The window walls at the second level featured large fixed lites over a smaller obscure lites and a design that included a series of bay windows. The building is notable for its clay tile roof that has a decked roof form.

1968 WURSTER ADDITION

The Wurster Building was expanded to the east in 1968. This portion of the building continues the window wall at the upper floor, including the bay windows; however, the addition is stepped back to allow a rooftop deck on top of the lower floor. At the street level, the modest facade was designed with simple rectangular storefronts.

EXISTING WURSTER BUILDING

The Wurster Building has undergone several exterior alterations including: replacement of the fixed original windows in the window wall, installation of short balconies between the bay windows, relocation of the ground level storefronts to within the arches. The south facade has also been altered with the addition of an entry vestibule to the restaurant (located on the southeast side of the building) and the addition of restrooms that were constructed in the 1980s.



Original Wurster Building

BEACH STREET FACADE FEATURES

Features of the Beach Street facade of the Wurster Building are:

- Regular pattern of bay windows and arches
- Transparency at upper level window wall and storefronts at the lower floor
- Dark metal for framing of the window walls and storefronts
- Clay tile roof

RECOMMENDATIONS

Compatible alterations should include the following considerations:

Materials:

- Painted steel
- Coated or anodized aluminum
- Glass
- Highly reflective or shiny materials such as clear coat aluminum or stainless steel are not appropriate.

Style:

- Even bay and vertical mullion spacing
- Horizontal mullions should be kept to a minimum to maintain an open transparent design

Color:
Dark colors such as bronze are appropriate

Existing Wurster Building

WINDOWS

HISTORIC CONTEXT

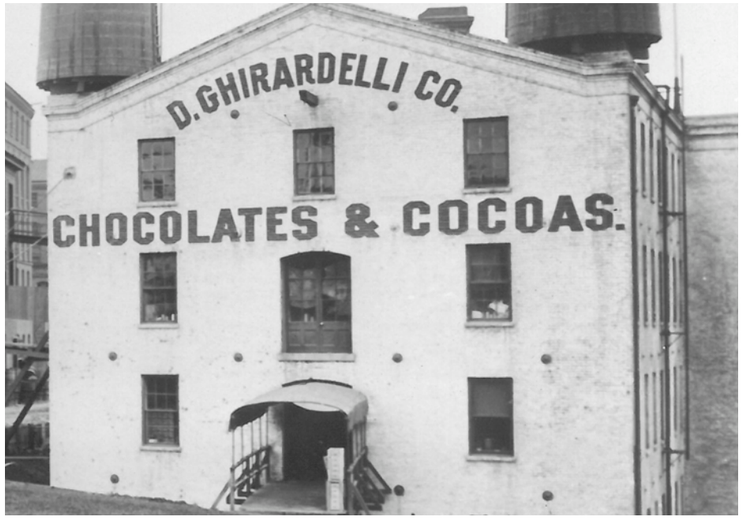
Many of the buildings at Ghirardelli Square retain original windows, including the original chocolate factory buildings.

All the windows of the Woolen Mills have been replaced; therefore no windows from the first period of significance survive.

The buildings constructed during the second period of significance (Clock Tower, Apartment Building, Mustard Building, Cocoa Building, and Chocolate Building) mostly retain their original windows. These windows include both wood and steel windows. The windows are typically single hung or casement with a few central pivot windows.

Windows constructed during 1962 – 1967 were metal windows that were dark in color and most were fixed. Some of these windows replaced original windows from the second period of significance.

These include the replacement windows at the chocolate building, further described on pages 16 and 20. Other notable windows from the 1960s include the bay windows of the Wurster building. These are further described on page 18.



Woolen Mills: Original windows were wood, multi-lite windows.

Power House: Original, industrial, multi-lite windows have been modified but retain the original character

Apartment Building: Original wood double-hung windows

Chocolate Building: Original steel double-hung windows

Clock Tower: Original steel casement windows.

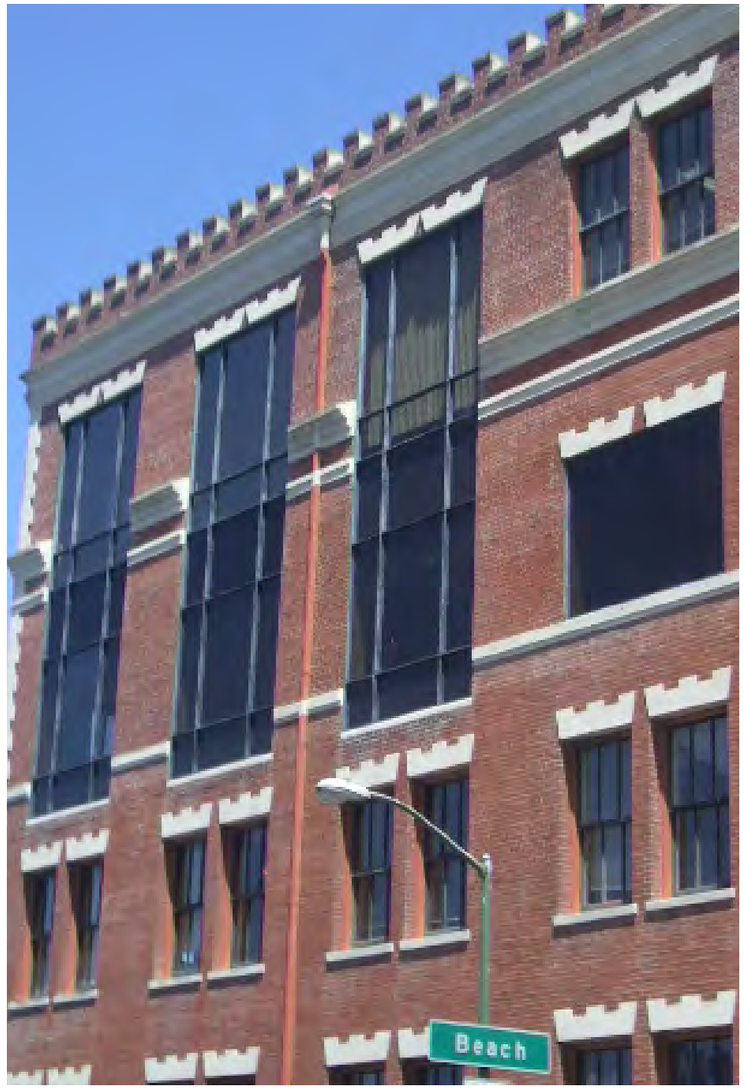
WINDOWS

1960S ALTERATION OF WINDOWS

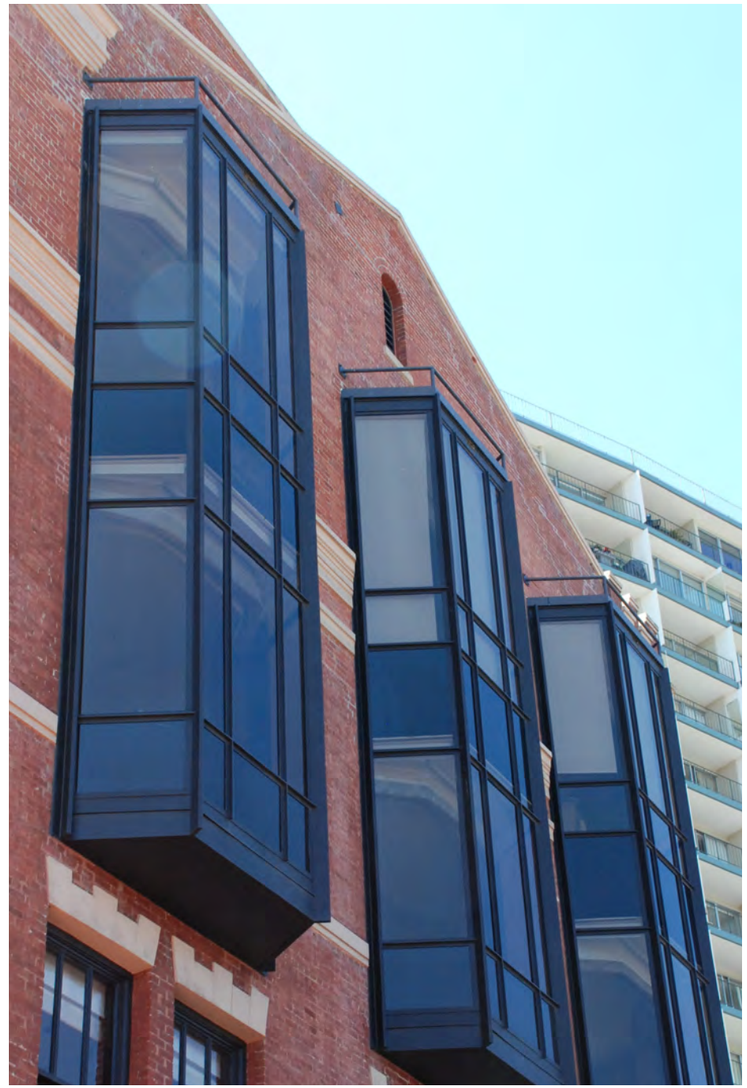
Several original windows were removed and replaced with modern windows during the 1960s as part of the Wurster, Bernardi, and Emmons work. Especially notable are the large, double-height windows that were installed at the Chocolate building. These interventions are a character-defining feature of the 1960s work that resulted in one of the first rehabilitation of historic buildings. As significant as these windows are, an alteration such as this is not recommended. Current preservation practice would not deem this an appropriate alteration for future projects.

Other more modest alterations during the 1960s included replacement of historic windows with modern aluminum fixed windows. These windows fit within the existing opening and would be considered appropriate.

Chocolate Building: Two pairs of windows were replaced in the 1960s with fixed metal windows that spanned two openings



Chocolate Building: The double-height windows were installed in the 1960s and resulted in the removal of original windows.



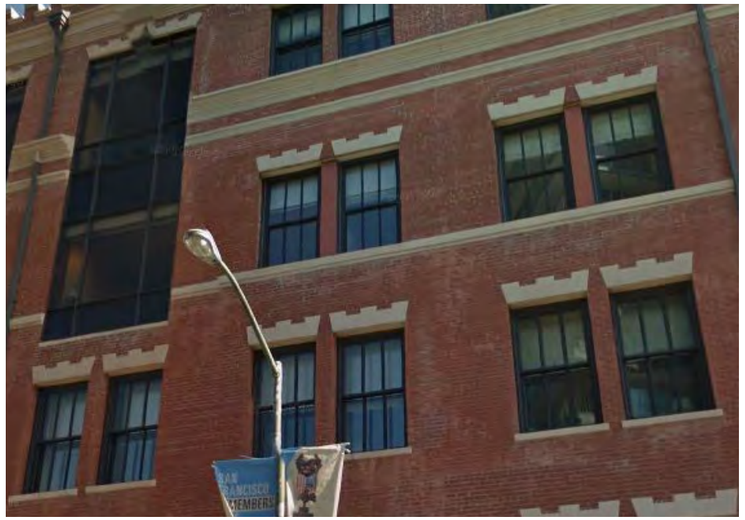
Chocolate Building: The two story bay windows were part of the 1960s work. Two pairs of windows were removed for each bay window.

WINDOWS

RECOMMENDATIONS

Original windows should be repaired rather that replaced. Where deterioration is severe, replacement windows should be similar to the original in appearance and where possible in operation. The size of the window should be limited to the existing opening to the extent possible.

- Woolen Mills: The original windows were replaced in 1968 with simple aluminum windows. Since the uniform look of the windows is a character-defining feature, future replacement of individual windows should match the existing. Wholesale replacement of the windows could include simple, metal windows similar to the existing or new windows that match original multi-lite wood windows
- Clock Tower, Apartment Building, Mustard Building, Cocoa Building, and Chocolate Building: Several of these buildings have steel double-hung, pivot, or casement windows that contribute to the buildings' historic character. Replacement windows should have a similar appearance as the original
- 1962 – 1967 Construction: Windows from the 1960s construction are generally simple aluminum windows. Replacement windows should match the existing in material, color and style



Appropriate Replacement: The double-wide windows at the Chocolate Building were replaced with new aluminum windows that closely resemble the original steel windows.

Appropriate Replacement: Original windows were replaced with aluminum windows that have a contemporary look. Though distinct from the original, they continue to give the facade a uniform look.

Inappropriate Replacement: Though part of the 1960s work, the replacement of a pair of original windows with a single window is not appropriate.

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EXTERIOR BUILDING MATERIALS AND FINISHES

HISTORIC CONTEXT - FIRST AND SECOND PERIODS OF SIGNIFICANCE (1858-1962)

The factory buildings constructed in the first and second periods of significance generally retain original finishes. These finishes include:

- Red brick walls
- Cement plaster trim
- Both steel and wood windows.

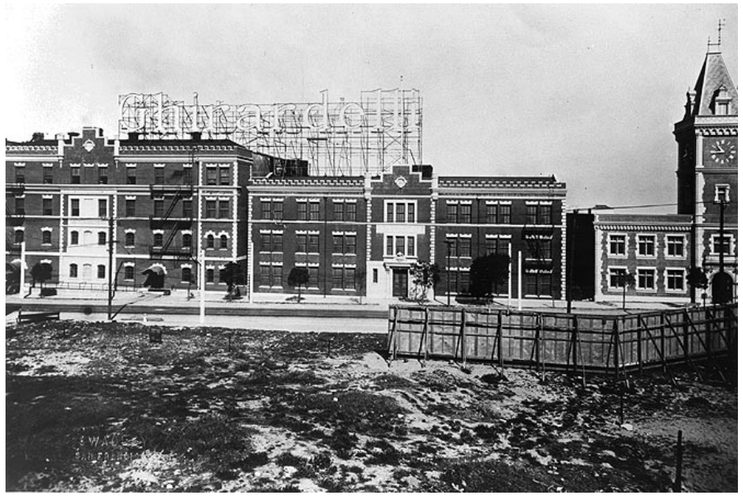
The color palette from this era consists primarily of varying shades of brick red, cream, and black. The black is found at windows and the cream is found at the cement plaster accents.

HISTORIC CONTEXT - THIRD PERIOD OF SIGNIFICANCE (1960S)

The 1960s work is notable for its use of materials compatible with the original buildings and includes:

- Red sand mold brick
- Metal storefronts
- Board formed concrete
- Cement plaster

The color palette from this era introduced a significant amount of grey, found primarily in the concrete work.



The Ghirardelli complex circa 1936. (Photo courtesy of 'Found SF')

EXTERIOR BUILDING MATERIALS AND FINISHES

RECOMMENDATIONS

Appropriate materials for building features include:

Cladding:

- Sand mold brick
- Red color: The rich variety in the brick color found at Ghirardelli Square allows for flexibility in the red tones that are appropriate.
- Cement plaster
- Board form concrete
- Application of cement plaster to exposed brick is not appropriate

Storefronts:

- Black anodized aluminum
- Black painted steel

Roofs:

- Copper
- Red clay tile

Glazing:

- Replacement glass at the original windows of the Clock Tower, Mustard, Cocoa, Chocolate, Woolen Mill, Power House, and Apartment House buildings should match the existing glass to the extent possible
- Replacement glass for the 1960s buildings should be clear glass

Windows and Doors:

- Wood or metal may be appropriate for doors and windows in the buildings built within the first and second period of significance.
- Metal is appropriate for doors and windows on the buildings built within the third period of significance.

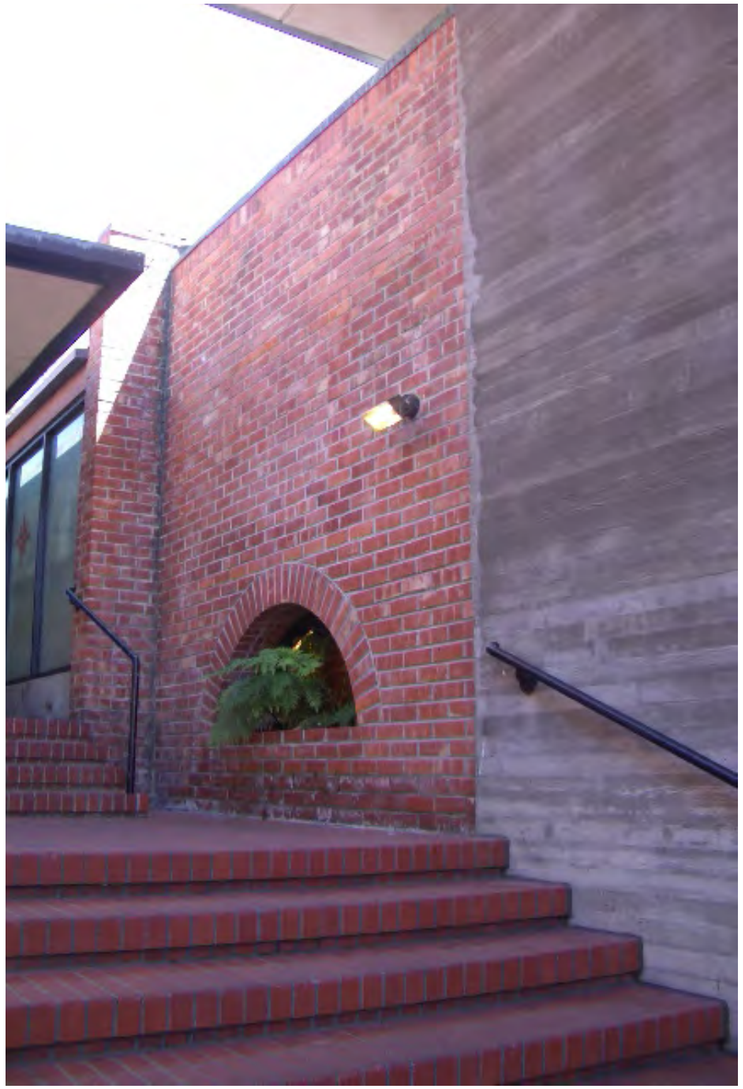
Original Ghirardelli buildings have a variety of brick.

Apartment Building has wood windows.

Several of the original Ghirardelli Buildings have double-hung steel windows.

The clay tile roof of the Wurster Building is a prominent feature of the Square and an appropriate exterior material .

EXTERIOR BUILDING MATERIALS AND FINISHES



Several of the 1960s buildings incorporate board form concrete.

Building materials used in the 1960s additions include sand mold brick, metal, and cement plaster storefronts, These continue to be appropriate materials today..

Inappropriate - some of the original Ghirardelli Buildings have areas where the original brick was refinished with cement plaster and painted to match the brick paving.

INAPPROPRIATE USE OF MATERIALS

Post the 1960's renovation, some of the original Ghirardelli buildings have been inappropriately added to and refinished.

The application of cement plaster to exposed brick is not acceptable.

When restoration is appropriate, paint is to be removed from brick; product and methodology specifications are to be provided to San Francisco Planning staff for review, in addition to on-site mock-ups.

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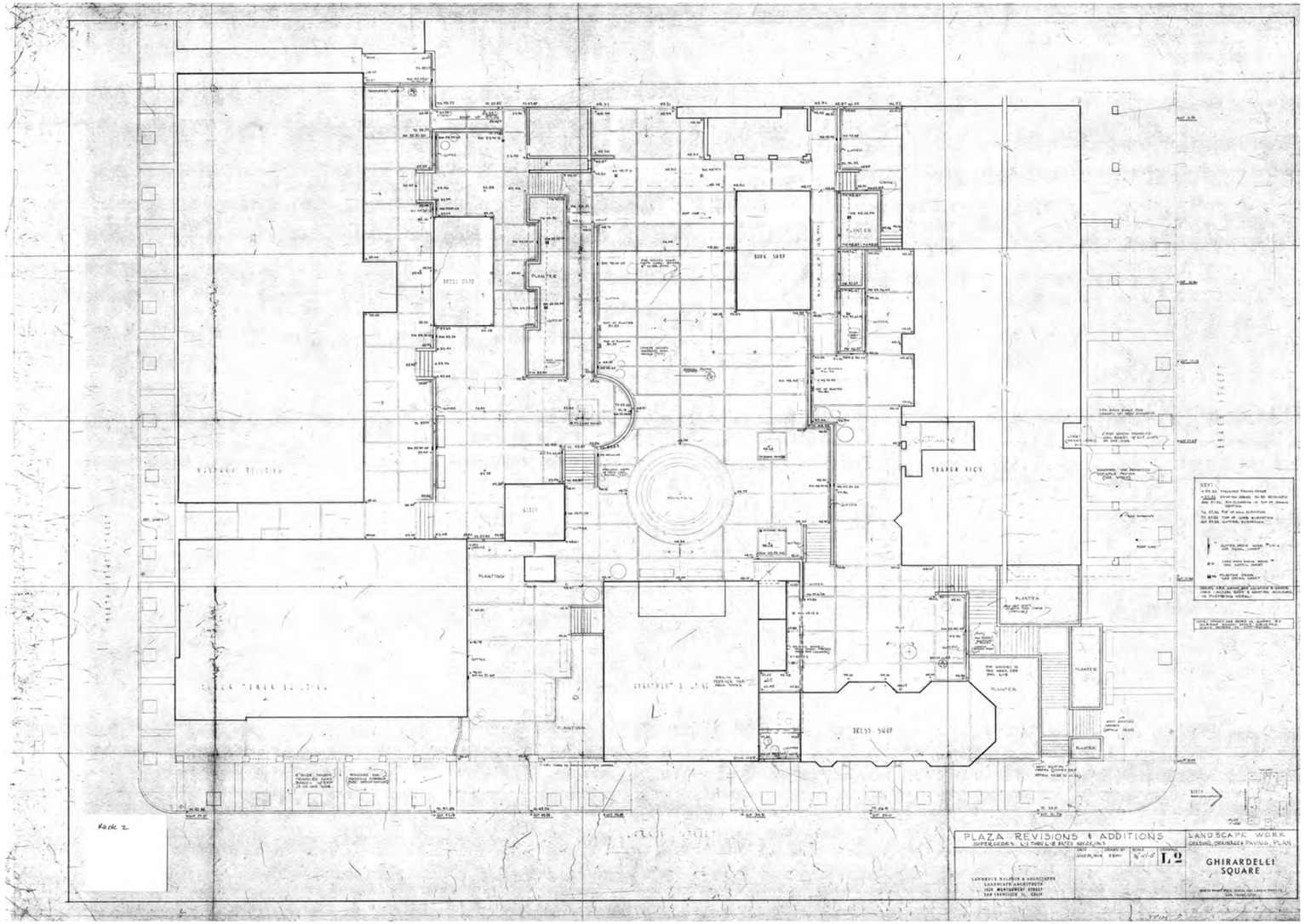
EXTERIOR SITE MATERIALS AND FINISHES

HISTORIC CONTEXT

The use of board-formed concrete walls and planters were a major characteristic of Halprin's modernist approach of being true to materials and expressing the structure. The paving design for the square, which consisted of a simple grid of two types of cast-in-place aggregate concrete also reflected these same modernist concepts. Together this pattern of neutral colored concrete formed a unified ground plane that both accentuated the historic red brick factory buildings and created functional surfaces designed to be active outdoor rooms used for festivals and programmed entertainment with remarkable views over San Francisco Bay.

View of Upper Plaza in the 1960's demonstrates the character defining angular board form concrete walls and planters from that era (Environmental Design Archives)

View looking west from Fountain Plaza in the 1960's shows the original character defining paving from that period, as seeded concrete (Environmental Design Archives)



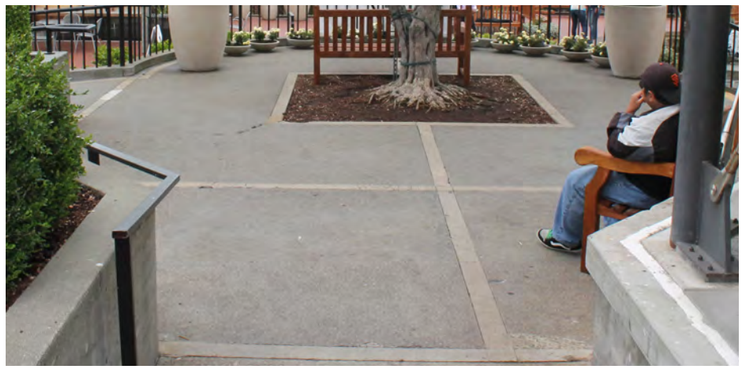
Plaza Revisions and additions 1963

EXTERIOR SITE MATERIALS AND FINISHES

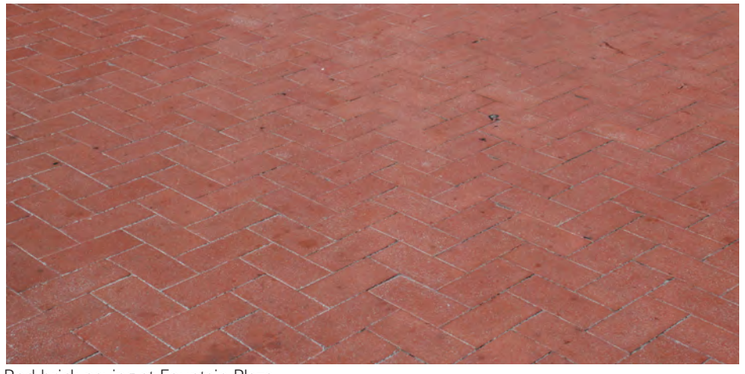
EXISTING CONDITIONS

Most of the board form concrete walls remain in their original configuration, although some alterations were made in the 1980s, to walls separating Fountain and Terrace Plaza. Much of the original Halprin-era paving has been replaced since the 1960's renovation. The opposing diagram indicates areas of original extant paving material.

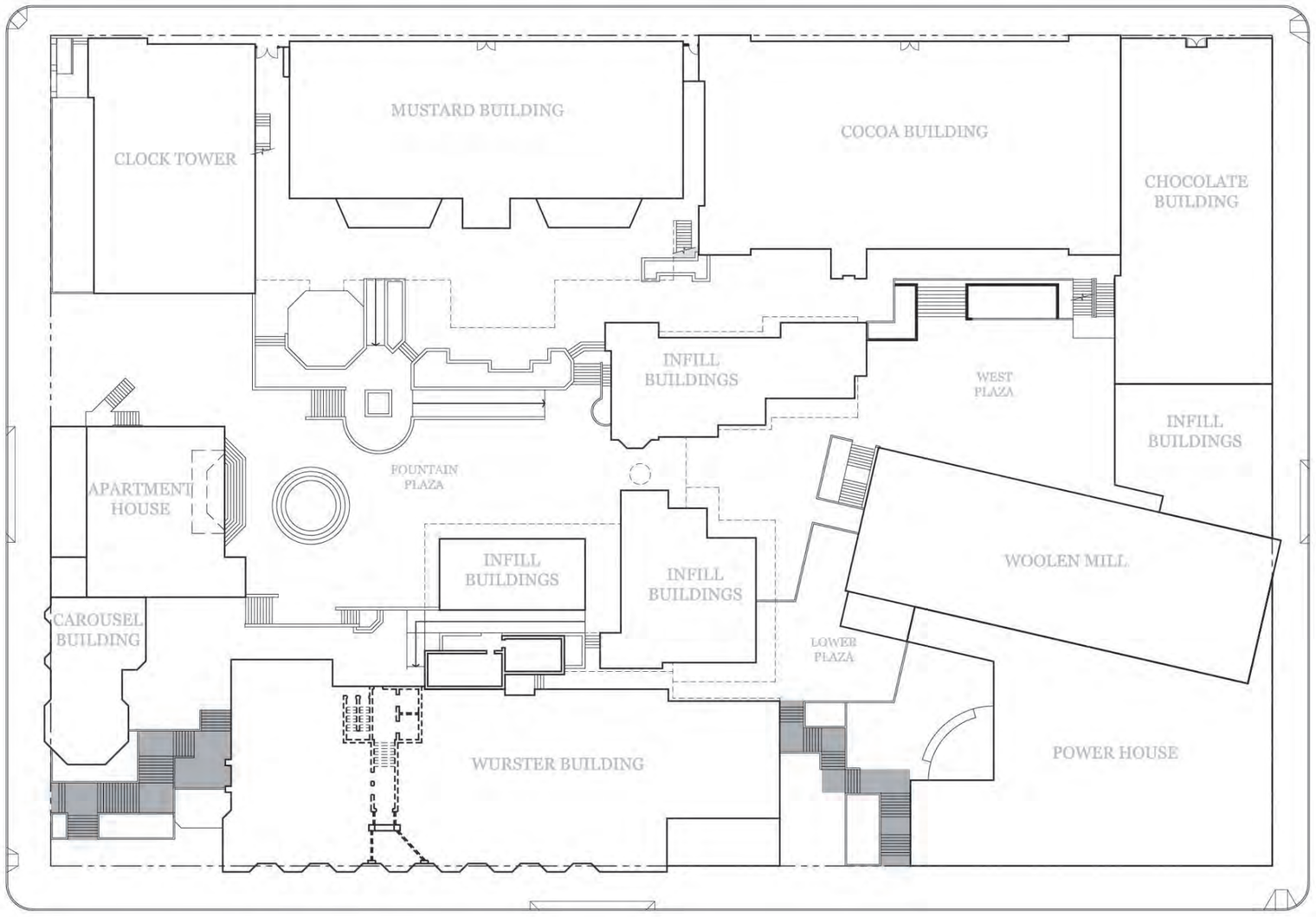
Red brick is amongst materials used to replace the Halprin-era aggregate concrete paving and is prevalent throughout the Square. While not a recommended material for the Square for small-scale patching or repair scopes of work where red brick already exists, replacement in-kind would be appropriate.



Existing seeded aggregate paving with concrete banding



Red brick paving at Fountain Plaza



EXTANT HALPRIN-ERA PAVING

NOTE: THERE MAY BE ADDITIONAL AREAS OF HALPRIN-ERA PAVING THAT HAS NOT BEEN IDENTIFIED

EXTERIOR SITE MATERIALS AND FINISHES

RECOMMENDATIONS

Any modifications to planters, walls, or original features shall be of a generally orthogonal layout and using the same materials, as the Halprin-era design. Ghirardelli Square's paving concept will restore where feasible, the pattern, neutral tone, materials and design intent of the 1963 plan. Individual project areas may require customized approaches, but shall remain respectful of site appropriate materials and design.

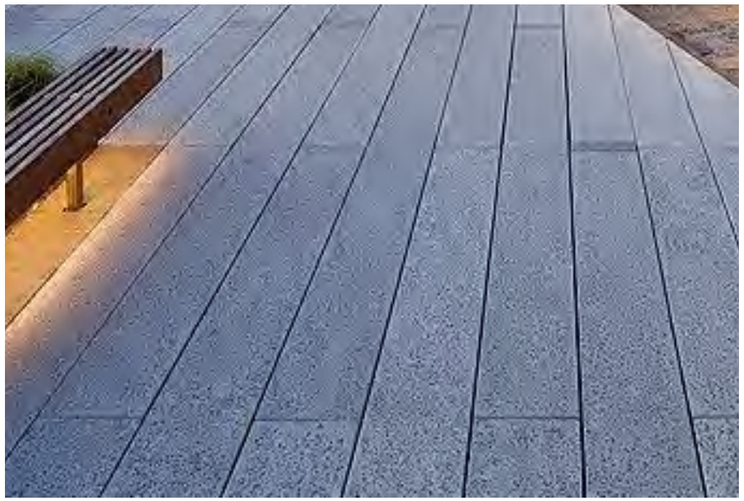
New paving at Ghirardelli Square will restore where appropriate, the original poured in place concrete, with fine seeded aggregate and banding pattern. This will be achieved with two differently colored and dimensioned paving types, to help re-establish unity between buildings.

Appropriate materials for hardscape include:
Concrete:

- To match existing materials in color and finish
- Other matte finishes such as a broom finish are also acceptable and may be used to distinguish new from existing.
- Potential areas where other finishes may be acceptable include areas where non-historic elements are required to be replaced or where a new hardscape finish is proposed.
- Banding to be 5-6" in width
- When poured in place concrete is not feasible, unit pavers should match in color and finish. Joints between pavers will be the absolute minimum size, to read as much like a continuous field, to resemble more closely the original paving

Appropriate existing paving and walls at Ghirardelli Square includes seeded concrete and board formed concrete.

Example of unit paver in conditions where poured in place concrete is infeasible.



Example of suitable alternative paving material to poured in place concrete.

EXTERIOR SITE MATERIALS AND FINISHES

INAPPROPRIATE USE OF MATERIALS

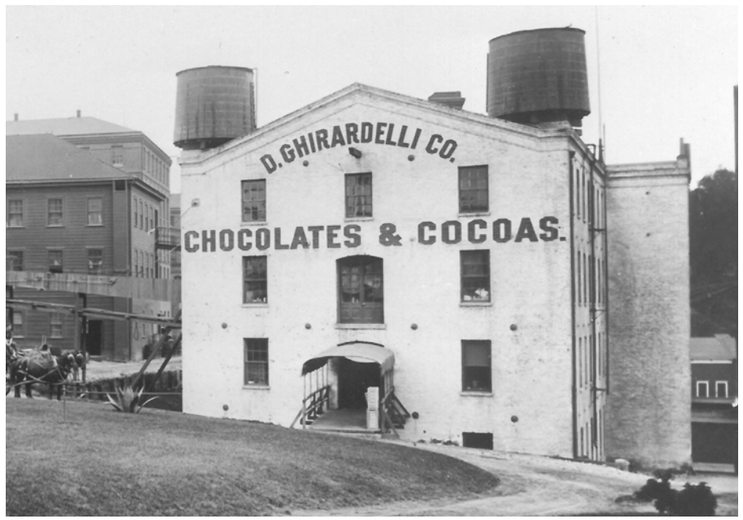
Post the 1960's renovation, some original paving has been replaced using materials that do not match appropriate material recommendations.
This includes the area adjacent the Powerhouse patio, where colored concrete has been added. Bamboo fencing installed in this vicinity is also inappropriate.

Inappropriate - paving materials should be in keeping with the character of Ghirardelli Square.

EXTERIOR TENANT SIGNAGE

HISTORIC CONTEXT

Tenant signage has historically been an important component for the buildings at Ghirardelli Square. Signage has been both bold and decorative from the beginning. An early photo of the Woolen Mill Building shows that the building once had "D. Ghirardelli Co. Chocolates & Cocoas" painted with large letters across the façade. The Cocoa, Chocolate, Mustard, and Clock Tower buildings had cement plaster letters that identified the building and interior activity. That signage remains and is now a character-defining feature for the buildings.
The retail became the primary tenant of Ghirardelli Square when the complex was redeveloped in the 1960s and tenant signage increased in importance. Photos from the 1960s show signage mounted directly to the buildings.



Historic photo of the Woolen Mill showing early signage.

View of the Apartment House in the 1960's showing tenant signage (Environmental Design Archives)

The Chocolate (in foreground), Cocoa, and Mustard Buildings retain original signage from the date of construction.

View from Beach and Larkin showing tenant signage at the Wurster Building

EXTERIOR TENANT SIGNAGE

Paper signage is inappropriate

Graphics and materials will be reviewed for compatibility. The signage at the Woolen Mill Building is compatible with the building and the square as a whole.

The sign hanging from this 1960s pavilion uses compatible materials and has an appropriate scale.

The tenant signs at the north facade of the Wurster Building include blade signs above the canopies that display contemporary designs that are acceptable.

RECOMMENDATIONS

Signs will be contemporary yet respectful of the historic character of Ghirardelli Square. Tenant signs should evoke the spirit of their individual tenant brands but also be secondary to Ghirardelli Square marquee signs at each point of entry. Signs must avoid styles and mannerisms that could be construed as false historicism. Signs will be designed so that their scale and size is compatible with the buildings where they are installed. Signs will be installed so that they do not obscure historic features of the buildings. High quality in design and materials will continue a valuable tradition of visual interest and clarity at Ghirardelli Square. Each tenant is required to fabricate, install, and maintain signs according to the criteria in this document.

Prohibited sign types: Signs with motorized elements, flashing lights, or iridescence are not permitted. Paper signs, other than temporary signs for special occasions, are not permitted. New signs cannot be mounted on balcony, terrace, or plaza railings.

Sign materials: Wood, metals, glass and fabric (non plastic) are preferred. Materials should be compatible with the existing building materials. Materials typical of the buildings' period and style and that utilize a contemporary graphic design are acceptable. Wood and metal signs should be painted or powder-coated.

Drawings: Scale drawings of each sign, including its location and specifications of its materials shall be submitted. Drawing should indicate supporting brackets and all fastening.

Fastenings: All mechanical fastening of signs to the brick exterior of the building must occur at mortar joints and must be done in a fashion so that the facade is not permanently damaged. Metal brackets should be painted or powder-coated and the number of attachment points should be minimized.

Lighting: Signage illuminations may be internal or external. There should be no external conduit associated with tenant signs. Transformers should be remotely located to minimize size and profile of signs.

EXTERIOR TENANT SIGNAGE

TENANT SIGNAGE FREQUENCY:

As an outdoor retail center, with history as a festival and event space, tenant signage that is visible from many view angles and distances including pedestrians on the sidewalk, pedestrians across the street and motorists driving along the street is both desirable and appropriate. It is therefore important that tenant signage be reviewed on a case by case basis to allow for variety and frequency that captures parallel and perpendicular vantage points as well as up close and far away vantage points while being respectful to the history of the resources at Ghirardelli Square.

The number of allowable signs will depend on the length and shape of the tenant's street presence. For example, a single large tenant in the Power House will have more signs than a small tenant in one of the Pavilion Buildings. Similarly, a single tenant in the Apartment House will be allowed to have signage on multiple sides of the building because the customer has a nearly 360 degree view of the Apartment House Building.

Tenant signage shall not be installed in such frequency to make it redundant and under no circumstances shall it obscure the architectural characteristics or diminish the historical character of Ghirardelli Square.

If the physical characteristics of the Square or the surrounding area minimize the visibility of a certain tenant location, alternate or innovative signage strategies not discussed in this document will be considered as part of an Administrative Certificate of Appropriateness.

Existing tenant signage at the Pavilions

Existing tenant signage at the Pavilions

Existing tenant signage along Beach Street

Existing tenant signage at the Coagulating Room

EXTERIOR SIGNAGE: PERMITTED SIGN TYPES

Type A
Signs perpendicular to facade may be carved, painted, or utilized raised applied letters on wood, metal, fabric or glass panels. The signs shall not exceed 2'-6" in width and may not project more than 3'-6" from face of building. Bottom of sign must be a minimum of 8'-0" above public sidewalks and a minimum of 7'-0" above paving inside Ghirardelli Square. Bracket to support this type of sign must be approved. Sign should read from both sides unless there is only one approach. This type sign may be externally lit.

Type B
Signs parallel to facade or storefront may have letters and logos printed, silkscreened, painted, etched, carved, or applied to metal, wood, acrylic or tempered or laminate glass. The height and length must relate to the wall on which sign is supported or the storefront module. This type sign may be externally lit.

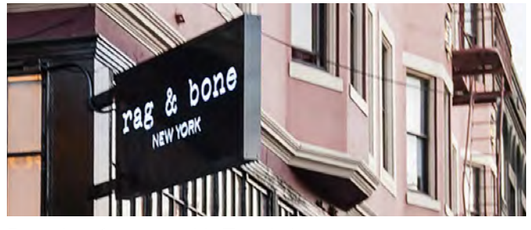
Type C
Signs backpainted on glass of storefront or exterior windows may be hand-painted or silkscreened on interior glass face. Vinyl letters and decals are not permitted. Signs shall not obscure the general view through the glass. Solid letters can be a maximum of 5" high and outline letters can be a maximum of 7" high. Application shall not permanently mark or etch the glass. This type sign will not be lit.

Type D
Applied letters mounted on the wall are permitted inside the Square. Letters shall be metal, acrylic or wood. If the letters are applied on a brick surface, mounting elements to be restricted to mortar joints. This type sign may be backlit.

Example of an acceptable Type A sign

Examples of an acceptable Type A sign

Examples of an acceptable Type B sign



Example of an acceptable Type B sign

Example of an acceptable Type C sign

Example of an acceptable Type D sign

EXTERIOR SIGNAGE: PERMITTED SIGN TYPES

Examples of acceptable Type E signs

Example of an acceptable Type G sign

Example of an acceptable Type F sign (neon)

Example of an acceptable Type H sign

Example of an acceptable Type I sign

Type E
Metal plaques must be of high quality and cast or engraved in brass, bronze, or stainless steel. They must be at least 1/4" thick. Signs may be located on exterior brick walls but must be fastened at mortar joints only. Maximum dimensions of height plus width is 50" for any Type E sign. Placement of plaques should be approximately 4'-6" off the floor level and relate to shop entrance. This type sign will not be lit.

Type F
Exterior neon signs, or interior neon signs within 3' of storefront or exterior window may be permitted. If exterior sign is used or if sign is exposed to contact with public, it must be enclosed or protected by plexiglass or wire glass shield. Minimum diameter glass tubing must be used. This type sign will be internally lit.

Type G
Signs on awnings: Maximum letter height shall be appropriately scaled to the awning. This type sign will not be lit. Signs on awnings may only be on the valence. Signs may not be included on face of awning.

Type H
Digital signs may be permitted within the tenant's storefront area, but only at storefronts facing the plazas and not at street-facing storefronts. Digital signs must display images directly related to that tenant's branding and must not display prices, menus, specials or sale items. Digital signs must be set back from the storefront. This type sign will be internally lit. This type of sign may display only static images (cannot have changing or moving images).

Type I
Menu signs: Sandwich Boards, Chalkboards or Easel Signs are allowed at the exterior of all restaurant tenants. A maximum of one Type J sign per tenant is allowed. It shall be placed near the entrance and must be stored indoors when the restaurant is closed. This type sign may not be lit.

WAYFINDING SIGNAGE

CONTEXT

Since the 1960s rehabilitation of Ghirardelli Square, many dissimilar wayfinding signage types have been layered across multiple owners and over a number of years, within the public realm.
This has resulted in a lack of cohesiveness, both in terms of style and materials.

See appendix B, for design details and a location plan for proposed wayfinding signage.

Existing signage throughout Ghirardelli Square is inconsistent in design, style and materials, having been added at different periods of time.

Wayfinding signage in the 1960's appears to have been minimal.
(Environmental Design Archives)

WAYFINDING SIGNAGE

Appropriate examples of vertical directory wayfinding signage

Appropriate examples of directional wayfinding signage

RECOMMENDATIONS

Wayfinding signage shall be in keeping with the character of Ghirardelli Square, and located appropriately. Fittings shall be dark in color, to coordinate with site furnishings.

Wayfinding shall be:

- Respectful of the historic character of Ghirardelli Square and avoid styles that are artificial and garish
- High quality in design and materials
- Secondary to Ghirardelli Square marquee signs at each point of entry
- Consistent throughout the project to enable a visitor to navigate the complex footprint of the project
- Installed so that they do not obscure historic building features
- Continuing a valuable tradition of visual clarity and interest at Ghirardelli Square

Acceptable materials include:

- Metal
- Wood
- Glass
- Digitally printed graphics

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CANOPIES AND AWNINGS

CONTEXT

Canopies at Ghirardelli can be seen in photos dating back from the mid-1960s when retail became a major component of the square. A photograph from 1964 shows two large canopies on the Cocoa Building along North Point Street. A canopy was also installed on the north facade of the Chocolate Building on one of the upper levels.

Today canopies and awnings vary in style, shape and size according to tenant needs. Most are awnings, though both the Chocolate Building and the Wurster Building have glass and steel canopies. Because retail remains a major component of the Square, canopies and awnings will be a useful tool to keep Ghirardelli Square's vitality as long as the canopies and awnings are installed in a way that the historic integrity of the property is not diminished.

RECOMMENDATIONS

Both canopies and awnings are appropriate features for Ghirardelli Square, a complex that is predominantly retail in nature. Canopies and awnings should be restricted to openings, should be attached so as not to damage historic features of the buildings, and should be compatible with the character of Ghirardelli Square. To the extent possible, canopies and awnings should be attached to non-historic fabric. Where attachment to historic brick facades is necessary, mechanical attachments shall be at mortar joints so as to not damage historic brick. Compatibility can be addressed through size, shape, material, and color.

Size: Both canopies and awnings should be scaled so that they have a proportion compatible with the size of the opening. They should generally fit the opening of the building. "A" frame entrance canopies and barrel entrance canopy should not extend so much that they overpower the opening.

Shape: Simple shed and slant awnings are all appropriate shapes for Ghirardelli Square. "A" frame, barrel, balloon shaped, concave, or a combination of shapes are not permitted. Angled awnings should be retractable-type with open ends and free-hanging valances.

Materials: Metal, glass, and cloth are all appropriate materials. Cloths that are fade resistant, such as Sunbrella, are preferred. Plastic is not permitted.

Color: Colors should be compatible with and complement the overall color scheme of the façade. Solid and stripes are both appropriate. Print patterns are also appropriate as long as they do not overwhelm the façade.

DRAWINGS

Scale drawings of canopy or awning, including location and specification of materials shall be submitted. Drawing should indicate supporting brackets and all fastening.

Canopy at the upper level of the north facade of the Chocolate Building, 1960s.

Canopy at the Power House, Beach Street facade is not appropriate in scale or shape

North Point Street facade: note canopies on the Mustard and Cocoa Buildings (SFPL, 1960s).

Canopies at the Wurster Building, Beach Street facade are constructed using appropriate materials

CANOPIES AND AWNINGS

Canopy at the Chocolate Building is in keeping with the industrial character of the Square

This awning fits well within existing opening.

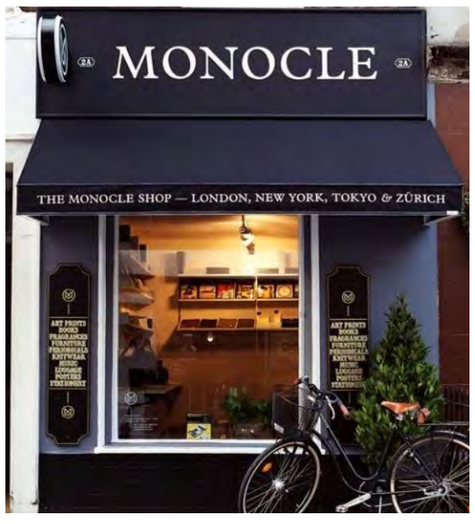
This canopy's placement and style allow a view of the windows above.

Retractable awnings are appropriate.

Awnings at the Clock Tower are appropriate in both materials and style

The graphic on this sign is proportionate to the size of the awning.

The pattern of this awning does not over-power the architectural features.



The colors of this awning complement the color palette of the building.

OUTDOOR LIGHTING

HISTORIC CONTEXT

The 1960s rehabilitation of Ghirardelli Square included whimsical lollypop-shaped lights that still remain on site. The Ghirardelli sign, decorative tree lighting and interior lighting from retail shops and restaurants resulted in a liberally lit site and a festive ambience.

'Sparkle Globes' were an addition to the Square in the 1960's.
(Environmental Design Archives)

Soffit lighting was introduced to the Square in the 1960's.
(Environmental Design Archives)

Lighting at the Beach and Larkin Street entry in the 1960's.

OUTDOOR LIGHTING

Existing lighting at Ghirardelli Square creates a festive ambience.


Existing 'Sparkle Globe' lighting at Ghirardelli Square should be cleaned and refurbished.

LIGHTING CONTEXT

Lighting can define a space by enhancing and creating mood.
Designing spaces that engage people emotionally while heightening the visual aesthetic are important concepts to initiate a discussion about architectural lighting . An exploration of lighting technologies will underscore the creative concepts and provide a performance oriented environment.

This holistic approach will set Ghirardelli Square apart from other plazas and retail promenades while maintaining the historic significance of the site.
Lighting design shall address an array of functional requirements and the quality of light within the space. The outdoor lighting will also take into consideration the environmental impact it has within the cityscape.

By establishing a community-based space and building upon Ghirardelli Square's character, lighting will help to reinforce the location's intended role as a tourist and local destination, San Francisco landmark, and a place for social interaction.

- Establish a Sense of Place
- Create Visual Interest and Define Nighttime Identity
- Maintain a Sense of Quality
- Balance Tradition and Adaptability
- Assist Wayfinding
- Facilitate and Encourage Use
- Promote Sustainability

PROJECT GOALS

Code Compliance:
Upgrade lighting fixtures and approaches so that appropriate recommended light levels are maintained across the site.

Create Simple Palette For Future Work:
Lighting will be designed in such that it creates a cohesive framework for incorporating future tenant provided lighting in a consistent way. A limited family of decorative and architectural fixtures has been selected for use during site upgrade project and shall contribute to the sense of cohesiveness across the project.

Create Outdoor Room:
Lighting will support an increased sense of community and a place of gathering within the plazas and terraces by activating the architecture and creating a room-like feeling in these exterior spaces.

Flexibility - Events & Vendors:
Flexible lighting approaches are to be employed in order to accommodate to varying needs of vendors and special events.

OUTDOOR LIGHTING: COMMON AREAS

EXISTING LIGHTING:

TYPICAL SECONDARY SITE GATEWAYS

Existing sidewalk lighting consists of large post top diffuse globes. Canopied building entries consist of building-mounted decorative sconces, marquee lighting along the edge of the building, building-mounted two-headed sign lights, and illuminated arches.

TYPICAL TRANSITION SPACE LIGHTING

Corridors consist of recessed round downlights, surface mount track with track heads, and building-mounted cylinder sconces. Elevator lobbies consist of surface mount decorative sconces. Stairs typically consist of sparkle globe post top lights with adjustable accent lights mounted below the globe on the pole.

TYPICAL SPECIAL FEATURES LIGHTING

Typical special features lighting include the water fountain submersible uplights, Ghirardelli billboard sign light, and the holiday Christmas Tree.

TYPICAL LANDSCAPE LIGHTING

Existing landscape lighting includes string lights wrapped around trees and trellises.

Recessed lighting at soffits of pavillion buildings

Globe lights provide appropriate entry markers.

Luminescence levels help set the ambience of the Plaza.

Lit historic signage contributes towards the atmosphere of the Plaza.

Appropriate existing common area light aesthetics

OUTDOOR LIGHTING: COMMON AREAS

Example of appropriate soffit lighting.

Example of appropriate tree uplighting.

Example of appropriate facade lighting.

Example of appropriate globe light fixture.

RECOMMENDATIONS

Safety:
Adequate light shall be provided along ADA paths of travel, egress routes and vertical circulation (stairs and ramps), using minimum light levels to achieve code compliance while maintaining the ambience of Ghirardelli Square.

Fixtures:
Markers shall be used at entries to Ghirardelli Square, with smaller globe lighting within the Plaza. Lighting shall be in keeping with the character of Ghirardelli Square, providing indirect light when possible. Fittings shall be dark in color, to coordinate with site furnishings.

Site lighting shall:

- Be respectful of the historic character of Ghirardelli Square and avoid styles that are artificial and garish
- Have shielded fixtures when appropriate to reduce glare and light pollution
- Be of a single color where appropriate
- Be designed to conserve natural resources and reduce maintenance costs
- Not permit mercury vapor, metal halide, or fluorescent lamps

Landscape lighting shall:

- Permit string lighting around trees where appropriate
- Discourage lighting landscape elements from a distance as this can interfere with night-time vision
- Be used selectively to highlight specimen trees and plantings and to define major building entrances
- Strike a balance between minimizing the number of units required to accomplish a desired effect and the ability to conceal light sources from view

Facade lighting of buildings shall:

- Be provided in moderation in areas appropriate for accenting of buildings and light only features that are unique or significant about the building
- Only be used where it will not interfere with the vision of passersby
- Use “Close-in” lighting to accentuate building finishes when appropriate

Drawings:
Scale drawings and fixture cut sheets of lighting, including location and specification of materials shall be submitted to the Planning Department for review and approval. Exterior lighting drawings should indicate supporting brackets and all fastening.

Illuminated Handrail:
Incorporating an illuminated hand rail in the site lighting design will help to create a soft, localized light along the pathways and stairs, while also providing illumination for egress paths.

Replace Existing Soffit Lights:
In all ceiling canopy soffits there will be a one for one replacement of recessed and surface mounted downlights, as needed. Replacing the soffit lights will provide more general lighting to the plazas and emphasize the retail storefronts. By specifying an adjustable downlight, there is opportunity to focus the light where desired.

Upgrade Decorative Fixtures:
Upgrade decorative fixtures for a more cohesive palette.

Tree Uplighting:
Including softscape lighting at trees will create a festive environment and while highlighting the natural features of the various tree species.

Upgrade “Sparkle Globes”:
Each individual incandescent bulb along the spine of the historic “sparkle globes” shall be replaced with new LED light bulbs. Fixtures should be cleaned and refurbished where needed.

Facade Lighting:
Incorporating facade lighting into the overall site design will enhance the historic charm of the various Ghirardelli Square buildings.

Relamp All Fixtures:
Any existing fixture should be relamped with consistent warm white lamps to match all new fixtures. Keeping the same color temperature lamp will create a cohesive and aesthetically pleasing nighttime environment.

Upgrade Accent Lights On Poles:
Where adjustable accent lights on the “sparkle globes” currently exist, there will be an upgrade to LED accent lights. This will make for a more cohesive look with the proposed refurbished “sparkle globes” post top fixtures.

OUTDOOR LIGHTING

INAPPROPRIATE LIGHTING

Since the 1960's renovation, lighting has been added that does not match appropriate lighting recommendations. This would no longer be permitted. Fixtures include the Beach and Larkin Street entry and pole lighting along Polk Street.

Inappropriate - lighting should be in keeping with the character of Ghirardelli Square.

OUTDOOR LIGHTING: TENANT AREAS

RECOMMENDATIONS

Lighting design and fixture selection shall be respectful of the historic character of Ghirardelli Square and must avoid styles and fixtures that are artificial or garish. Mercury vapor, metal halide, or fluorescent lamps are not permitted for exterior lighting.

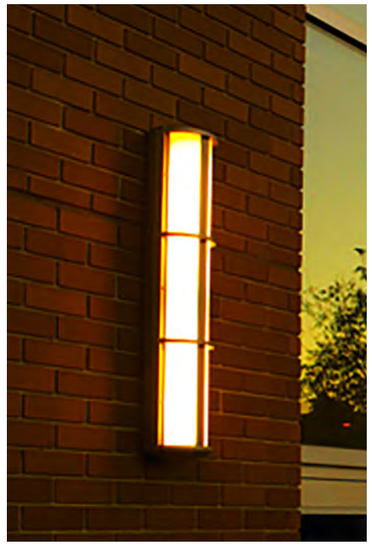
Lighting is to be in keeping with the period of significance for the property, with a distinguishable aesthetic for Wurster-era and Ghirardelli buildings.

Tenant lighting shall promote the business identification and branding, while not detracting from the building and character of Ghirardelli Square.
Minimum light levels should be used to achieve code compliance and maintain the ambience of Ghirardelli Square.

Scale drawings and cut sheets of lighting, including location and specification of materials shall be submitted to the Planning Department for review and approval. Exterior lighting drawings should indicate supporting brackets and all fastening. No exposed conduits will be permitted.

Appropriate existing tenant lighting solutions

Examples of appropriate tenant area light aesthetics for Wurster-era buildings



Examples of appropriate tenant area light aesthetics for Ghirardelli-era buildings

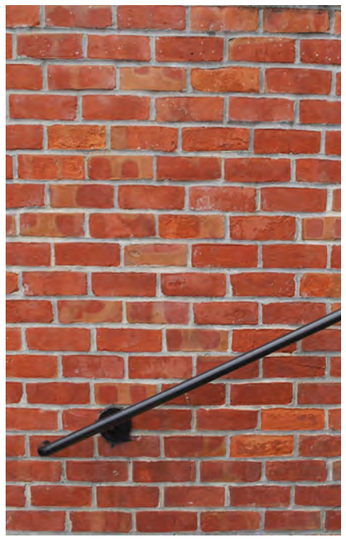
SITE RAILINGS

HISTORIC CONTEXT

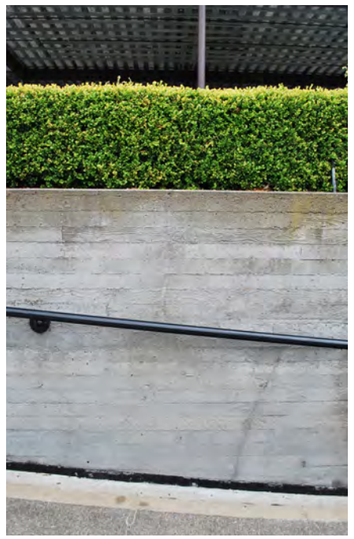
The original railings at Ghirardelli Square were simple and metal, with square pickets and rectangular handrails; a character defining feature of the Halprin era. The railings at the Mustard, Chocolate and Cocoa Buildings have been altered through the addition of glass to address code deficiencies.

Historic photos illustrate railings as part of the 1960's square rehabilitation (Environmental Design Archives).

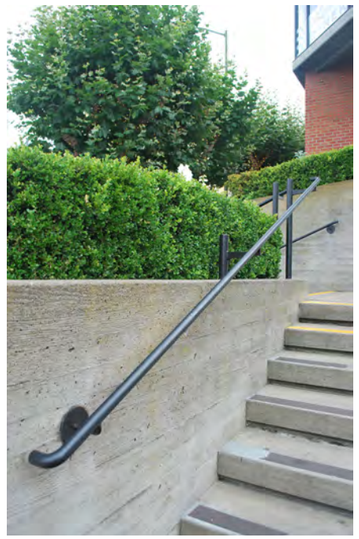
SITE RAILINGS



Appropriate - railings are wall mounted where possible.



Appropriate - railings are consistent in style and color.



RECOMMENDATIONS

Railings and guard rails should:

- Have an appropriate finish and dark color to match existing railings found at Ghirardelli Square
- Be wall mounted where possible
- Meet City code design standards

Glass additions to railings at the Fairmont Heritage Place are appropriate and meet City code.

Example of an appropriate illuminated handrail

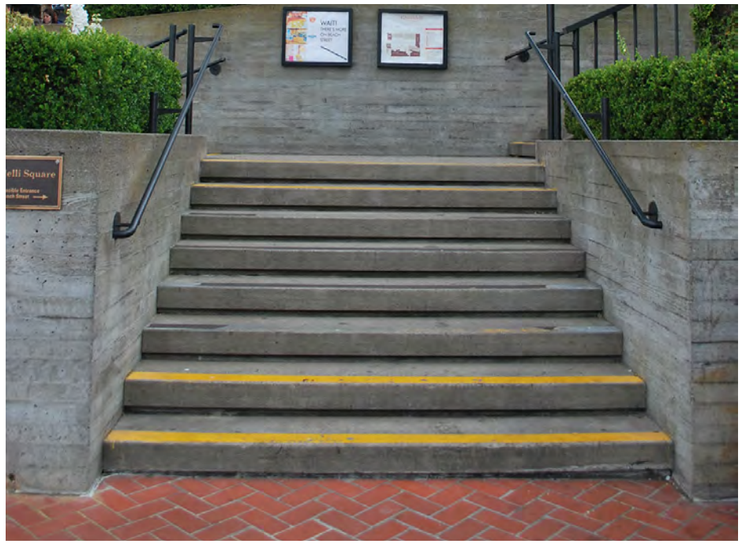
SITE STAIRS AND RAMPS

HISTORIC CONTEXT

The site at Ghirardelli Square is steep and includes several plaza levels which were created during the 1960's renovation. These plazas were planned before accessibility challenges were fully integrated into City code design requirements. Consequently, Ghirardelli Square has many stairs, few ramps and accessibility presents a challenge. Entrances from Beach Street include a series of steps that lead up to the main plazas. Ramps have since been added in several areas, however accessibility has not be satisfactorily resolved.

Historic photos illustrate the plaza levels connected by ramps and stairs as part of the 1960's square rehabilitation. (Environmental Design Archives).

SITE STAIRS AND RAMPS



Appropriate - design and materials of existing steps are in keeping with the character of Ghirardelli Square.

Appropriate - a slope within the Square's interior meets ADA standards using suitable materials.

Appropriate - an exterior slope meets ADA standards using suitable materials.

RECOMMENDATIONS

Site stairs and ramps need to be respectful of the historic character of Ghirardelli Square, while giving consideration to ease of accessibility, and compliance to ADA regulations and the California Disabled Access regulations title 24 for the visually impaired, when using contrasting strip color for stair safety tread.

Stairs and ramps shall:

- If modified, attempt to protect the historic built environment
- Adhere to City code design standards
- Remain free of site furnishings and planters

SITE STAIRS AND RAMPS

INAPPROPRIATE SITE RAMPS

While still accessible and used by visitors, the ramp constructed during the 1960's renovation to connect Terrace and Fountain Plazas, does not comply with current code requirements.

Due to the historical significance of this ramp, alternative methods of access are to be provided, rather than reconstruction. Today, such a ramp would not be permitted.

Some existing slopes do not meet ADA standards.

Inappropriate - paving materials and style should be in keeping with the character of Ghirardelli Square.

SITE STAIRS AND RAMPS

The wheelchair lift at Clock Tower is located in an unobtrusive location. The metal is painted black, compatible with the adjacent landing and guardrail.

This wheelchair lift at Apartment House is located on a secondary facade. A darker tone of grey would make the lift less obtrusive.

ADA LIFTS

Ghirardelli Square is situated on a site with a steep topography that has accessibility challenges. Where space allows, ramps are always a preferable solution to meet accessibility needs, as long as the ramp does not result in the removal of character-defining features. Where the installation of a ramp is not feasible, a wheelchair lift can be used to meet ADA requirements.

Preservation Brief 32: Making Historic Properties Accessible recommends installing wheelchair lifts in unobtrusive locations to minimize the visual effect to historic properties.

Both glass and metal are appropriate materials for wheelchair lifts. The metal should be black or dark grey in color to coordinate with site furnishings and fixings.

LANDSCAPE AND PLANT MATERIALS: HISTORIC CONTEXT

"Movement and choreography have always been a consistent influence on me and my work… natural movements characterized by water and natural forces and the evidence of natural change over time have led me to my endless fascination with natural processes."[1]

- Lawrence Halprin

DESIGN APPROACH

In their biography of Lawrence Halprin, landscape architect for Ghirardelli Square, the Cultural Landscape Foundation notes Halprin's attention to human scale, user experience, and the social impact of design.[2] Halprin sought to engage the community in his landscape work and was deeply influenced by his wife, choreographer and dancer, Anna Halprin. His guiding principles are expressed in RSVP Cycles: Creative Processes in the Human Environment, which he co-wrote with his wife and associate Jim Burns and emphasizes Resources (both human and physical), Scores (process leading to the performance – movement through space), Valuation (analyzes the result of action), and Performance (resultant of the score).[3] According to his wife, "He believed that the most important thing about designing is to generate creativity in others, and to be inclusive -- to include the needs and experiences of people interacting with the environment, and to let them be part of its creation."[4]

The New York Times' obituary honoring Halprin describes him as "the tribal elder of American landscape architecture, who used the word choreography to describe his melding of modernism, nature and movement in hundreds of projects…"[5] and credits him for a "sharper style of landscape architecture, often as dependent on concrete as on vegetation."[6] Indeed, his work is better known for creating interactive environments and for his use of concrete forms than for his integration of plants within his landscapes.

His design sensibilities focus not on ornamentation or specific plants but on how people use, interact, and move through the space. Though his work consistently engages organic and natural elements, they are most often expressed within the context of modernist, geometric forms constructed of austere materials such as concrete. In the Capitol Towers National Register Nomination, water is noted to be the most common natural element that Halprin celebrated in his designs and "which became a hallmark of his work."[7]

HALPRIN'S GHIRARDELLI SQUARE

The following characteristics found at Ghirardelli Square are consistent with Halprin's design sensibilities as described above:

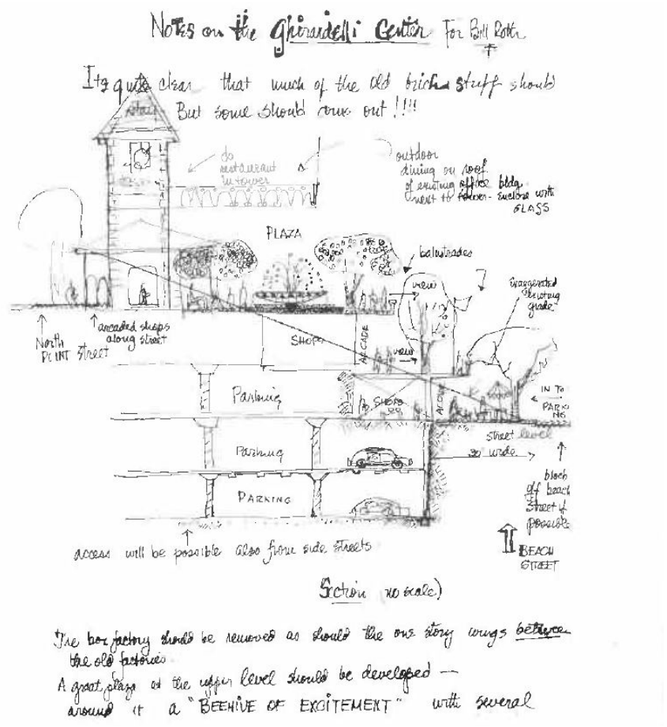
- Use of movement and choreography in the landscape design, especially at Beach and Larkin streets and at the west entry point at Beach Street;
- Extensive use of concrete material (originally the hardscape throughout);
- Use of board form geometric concrete features such as the planters and landscape walls;
- Use of vegetation within concrete forms and planters and that is subordinate to choreography of the space;
- Human scale of both vegetation and concrete forms.

Halprin's preferred "landscape" is crowded and as previously noted a major characteristic of his work was his desire to choreograph the movement of people throughout his projects.[8] When analyzing Halprin's original planting design at Ghirardelli Square through the lens of choreography and the flow of people, two types of conditions are evident: one condition placed seating directly adjacent to the planter, creating places for rest and respite (see photos 1, 3, and corresponding keyed in photo locations noted on the original planting plan on pages 54-55); in the other condition, planters were placed adjacent to stairs and ramps, creating welcoming spaces to move through (see photos 2,4, and corresponding keyed in photo locations noted on the original planting plan on pages 54-55). At Ghirardelli Square, Halprin selected many of the same species for each of these conditions, suggesting that plant species may have been selected based on other criteria, such as a consistent design language.

No documentation specific to Ghirardelli other than the original landscape plans was found that described a strategy for plant selection. Therefore, the following description of the original plants at Ghirardelli is based on Halprin's own design principles and the original Ghirardelli landscape:

- Halprin used vegetation to "give people contact with nature, establish a relationship with primitive needs and soften the hard, unyielding surfaces of urban construction with the green of leaves, texture, and shadow;"[9]
- The plant selection at Ghirardelli Square is generally small in scale, consistent with Halprin's desire to add human scale to the space;
- Plants are generally contained within concrete planters.

Specific plants that were originally used are shown in the original landscape plan that follows and listed under "Halprin Planting Palette." The original plan also shows that, except for street trees and a few trees within the site, vegetation is contained within concrete planters.



Early concept sketch of Ghirardelli Square by Lawrence Halprin for developer William Roth, 1962.

1. "Lawrence Halprin," LandscapeOnline.com, http://www.landscapeonline.com/research/article/12990
2. "Lawrence Halprin," The Cultural Landscape Foundation, https://tclf.org/pioneer/lawrence-halprin
3. Lawrence Halprin and Associates, *RSVP Cycles: Creative Processes in the Human Environment*, 1970.
4. Rob Rogers, "Landscape architect Lawrence Halprin dies at 93," *Marin Independent Journal*, 26 October, 2009.
5. Douglas Martin, "Lawrence Halprin, Landscape Architect, Dies at 93," *New York Times*, 26 October, 2009.
6. Ibid.
7. Page & Turnbull, Capitol Towers National Register Nomination, 2014.
8. Davis, Douglas, *Lawrence Halprin Changing Places*, San Francisco Museum of Modern Art, p1-4
9. Lawrence Halprin, "Epilogue," *Cities*, revised ed. March1972.

LANDSCAPE AND PLANT MATERIALS

Photo 1 - 1960's perennials varied in height and texture

Photo 3 - 1960's evergreen olive trees at Terrace Plaza.

Photo 5 - 1960s olive trees in Fountain Plaza

Photo 2 - 1960's Planter adjacent the Beach and Larkin Street entry stairs.

Photo 4 - Gateway at Larkin St. and Beach St. intersection.

Photo 6 - 1960s view of Date Palm

LANDSCAPE AND PLANT MATERIALS

ORIGINAL 1965 HALPRIN PLANTING PLAN

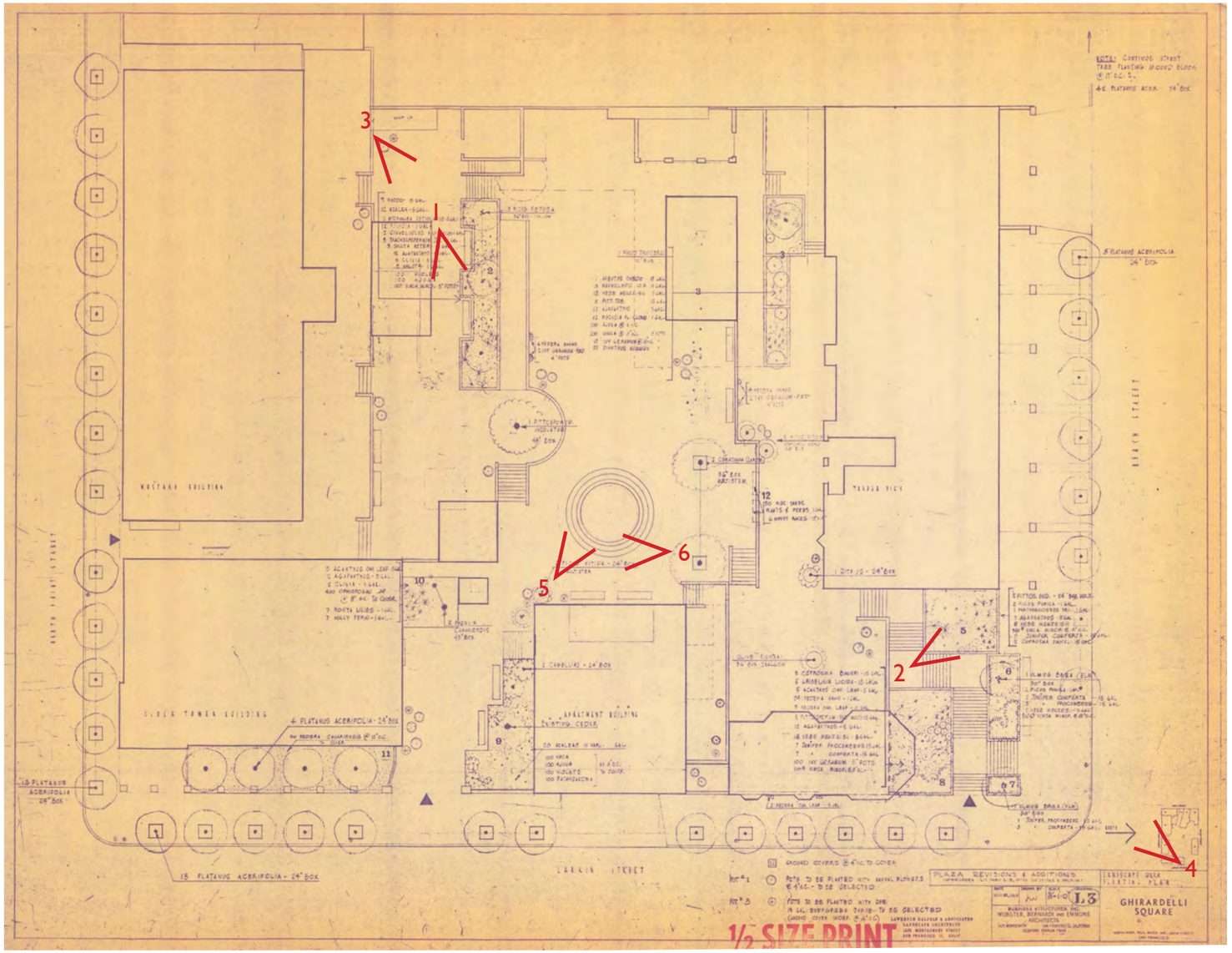


Photo locations from preceding page are noted on the above plan

LANDSCAPE AND PLANT MATERIALS

HALPRIN PLANTING PALETTE

GROUNDCOVER AND GRASSES

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance
Ajuga	carpet bugle	6"	moderate	yes		no	no		full sun or partial shade	spreads by runners
Cistus villosus 'Prostratus'	sageleaf rockrose	2'	low	yes	white	yes	no	yes	full sun	hardy, short-lived
Convolvulus mauritanicus	ground morning glory	1' to 2'	low	yes	lavender-blue	no	no		best in sun / some shade ok	
Erica 'Spring White'	heath	8"	moderate	yes	white	no	no		full sun or partial shade	tough, fast growing
Ficus pumila	creeping fig		moderate	yes		no	no		full sun or partial shade	
Hedera canariensis	Algerian ivy		moderate	yes		no	no		full sun or partial shade	invasive
Hedera helix 'Oakleaf'	English ivy		moderate	yes		no	no		full sun or partial shade	invasive
Juniperus conferta	shore juniper	1'	low	yes		no	no	yes	full sun or partial shade	
Juniperus procumbens	Japanese garden juniper	1' to 2.5'	low	yes		no	no		full sun or partial shade	
Pachysandra	Japenese spurge	1'	moderate	yes		no	no		partial or full shade	
Parthenocissus tricuspidata	Boston ivy		moderate	no		no	no		sun or shade	
Sollya heterophylla	Australian bluebell creeper	2' to 3'	low	yes	blue	yes	no	yes	partial shade	
Trachelospermum jasminoides	star jasmine	2'	moderate	yes	white	no	no		light shade	
Vinca minor	periwinkle	6"	moderate	yes	lavender-blue	no	no		partial shade	

PERENNIALS

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance
Acanthus mollis 'Oakleaf'	bear's breech	4' to 5'	moderate	yes	white, rose	yes	no		sun or shade	can be invasive, hardy
Agapanthus	lily-of-the-nile	4' to 5'	moderate	yes	blue or white	yes	no		full sun or partial shade	low maintenance
Agapanthus 'Peter Pan'	lily-of-the-nile	1.5'	moderate	yes	blue	yes	no		full sun or partial shade	low maintenance
Clivia	clivia	2'	moderate	yes	orange-red	yes	no		some shade	
Cyrtanthus elatus	valota, fire lily	1' to 2'	moderate	yes	orange-red	no	no		light shade	
Cyrtomium falcatum	Japenese holly fern	2' to 3'	moderate	yes		no	no		patial or full shade	
Dianthus allwoodii	pink / carnation	1.5'	moderate	yes	pink-white-red	no	no		sun or shade	
Fuchsia	fuchsia flying cloud	3' to 6'	moderate	yes	showy	no	no		full sun or partial shade	
Hosta lilies	plantain lily	3' to 6'	moderate	yes		no	no		partial or full shade	
Liriope muscari	big blue lilyturf	1.5'	moderate	yes	violet	no	no		full sun or partial shade	
Ophiopogon japonicus	mondo grass	8"	moderate	yes		no	no		partial to full sun	
Violet	violet	1'	moderate	no		no	no		sun or partial shade	

Inventory of plant species from the original 1960s Halprin Planting Plan.

LANDSCAPE AND PLANT MATERIALS

HALPRIN PLANTING PALETTE

SHRUBS

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance
Azalea	azalea	3' to 6'	moderate	yes		no	yes		filtered sunlight	
Camellia	camellia	20'	moderate	yes	showy	no	no		partial shade	
Coprosma baueri	mirror plant	up to 10'	moderate	yes		no	no		full sun or partial shade	easy to maintain
Griselinia lucida	puka	up to 10'	moderate	yes		no	no		full sun or partial shade	
Hebe menziesii	hebe	3'	moderate	yes	showy	no	no	yes	sun or part shade	
Hydrangea petiolaris	climbing hydrangea	up to 60'	moderate	no	white	no	no		partial shade	
Pittosporum tobira	mock orange	6' to 15'	low	yes	creamy white	no	no	yes	full sun or partial shade	
Rhaphiolepis indica	Indian hawthorne	4' to 5'	low	yes		yes	no		sun or part shade	
Rhododendron	rhododendron	3' to 6'	moderate	yes		no	yes		filtered sunlight	

TREES

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance
Arbutus unedo	strawberry tree	35'	low	yes	green-white	no	no	yes	sun or part shade	
Ficus retusa	Indian laurel fig	30'	moderate	yes		no	no		full sun or partial shade	
Olea europaea	olive	30'	very low	yes		no	no	yes	full sun	
Phoenix canariensis	Canary Island date palm	to 60'	low	yes		no	no	yes	full sun or partial shade	
Pinus thunbergii	Japanese black pine	100'	moderate	yes		no	no		full sun	
Pittosporum undulatum	Victorian box	30'	low	yes	creamy white	no	no		full sun or partial shade	
Platanus acerifolia	London plane	40' to 80'	moderate	no		no	no		full sun	
Ulmus parvifolia 'Brea'	Chinese evergreen elm	40' to 60'	low	yes		no	no		full sun	

Inventory of plant species from the original 1960s Halprin Planting Plan.

LANDSCAPE AND PLANT MATERIALS

HALPRIN PLANTING PALETTE

GROUNDCOVER AND GRASSES

Ajuga
carpet bugle

Cistus villosus 'Prostratus'
sageleaf rockrose

Convolvulus mauritanicus
ground morning glory

Erica 'Spring White'
heath

Ficus pumila
creeping fig

Hedera canariensis
Algerian ivy

Hedera helix 'Oakleaf'
English ivy

Juniperus conferta
shore juniper

Juniperus procumbens
Japanese garden juniper

Pachysandra
Japanese spurge

Parthenocissus tricuspidata
Boston ivy

Sollya heterophylla
Australian bluebell creeper

Trachelospermum jasminoides
star jasmine

Vinca minor
periwinkle

PERENNIALS

Acanthus mollis 'Oakleaf'
bear's breech

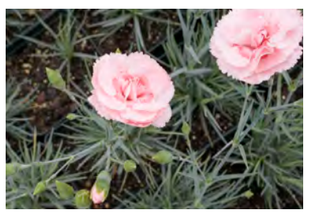
Agapanthus
lily-of-the-nile

Agapanthus 'Peter Pan'
lily-of-the-nile

Clivia
clivia

Cyrtanthus elatus
valota, fire lily

Cyrtomium falcatum
Japanese holly fern



Dianthus allwoodii
pink, carnation

Fuchsia
fuchsia flying cloud

Hosta lilies
plantain lily

Liriope muscari
big blue lilyturf

Ophiopogon japonicus
mondo grass

Violet
violet

LANDSCAPE AND PLANT MATERIALS

HALPRIN PLANTING PALETTE

SHRUBS

Azalea
azalea

Camellia
camellia

Coprosma baueri
mirror plant

Griselinia lucida
puka

Hebe menziesii
hebe

Hydrangea petiolaris
climbing hydrangea

Pittosporum tobira
mock orange

Rhaphiolepis indica
Indian hawthorne

Rhododendron
rhododendron

TREES

Arbutus unedo
strawberry tree

Ficus retusa
Indian laurel fig

Olea europaea
olive

Phoenix canariensis
Canary Island date palm

Pinus thunbergii
Japanese black pine

Pittosporum undulatum
Victorian box

Platanus acerifolia
London plane

Ulmus parvifolia ‘Brea’
Chinese evergreen elm

LANDSCAPE AND PLANT MATERIALS

EXISTING PLANTING

Planting at Ghirardelli Square has changed considerably since the original Halprin-era installation. Existing planting does not appear to have a defined structure and there is no current recommended plant list. Clipped boxwood borders outline the perimeter of many of the sites planters and give the current planting a distinct character that is not compatible with the original design (see photos 1, 3, 5 and corresponding keyed in photo locations noted on the site plan on pages 54-55).

Of the original plants from the Halprin-era the only still living today are the three olive trees, two of which are located in the Fountain Plaza and the third is located in the Terrace Plaza (remaining original plant materials are noted on the site plan on page 55).

Photo 1 - Existing planting at Apartment House south facade

Photo 2 - Existing planting at Larkin St. and Beach St. steps

Photo 3 - Existing planting at Upper Terrace

Photo 4 - Existing planting at Beach St. steps

LANDSCAPE AND PLANT MATERIALS

Photo 5 - Existing planting at Larkin St. and Beach St. gateway

Photo 6 - Existing empty planter at Cocoa Bldg. basement

SITE PLAN SHOWING EXISTING BUILT-IN PLANTERS

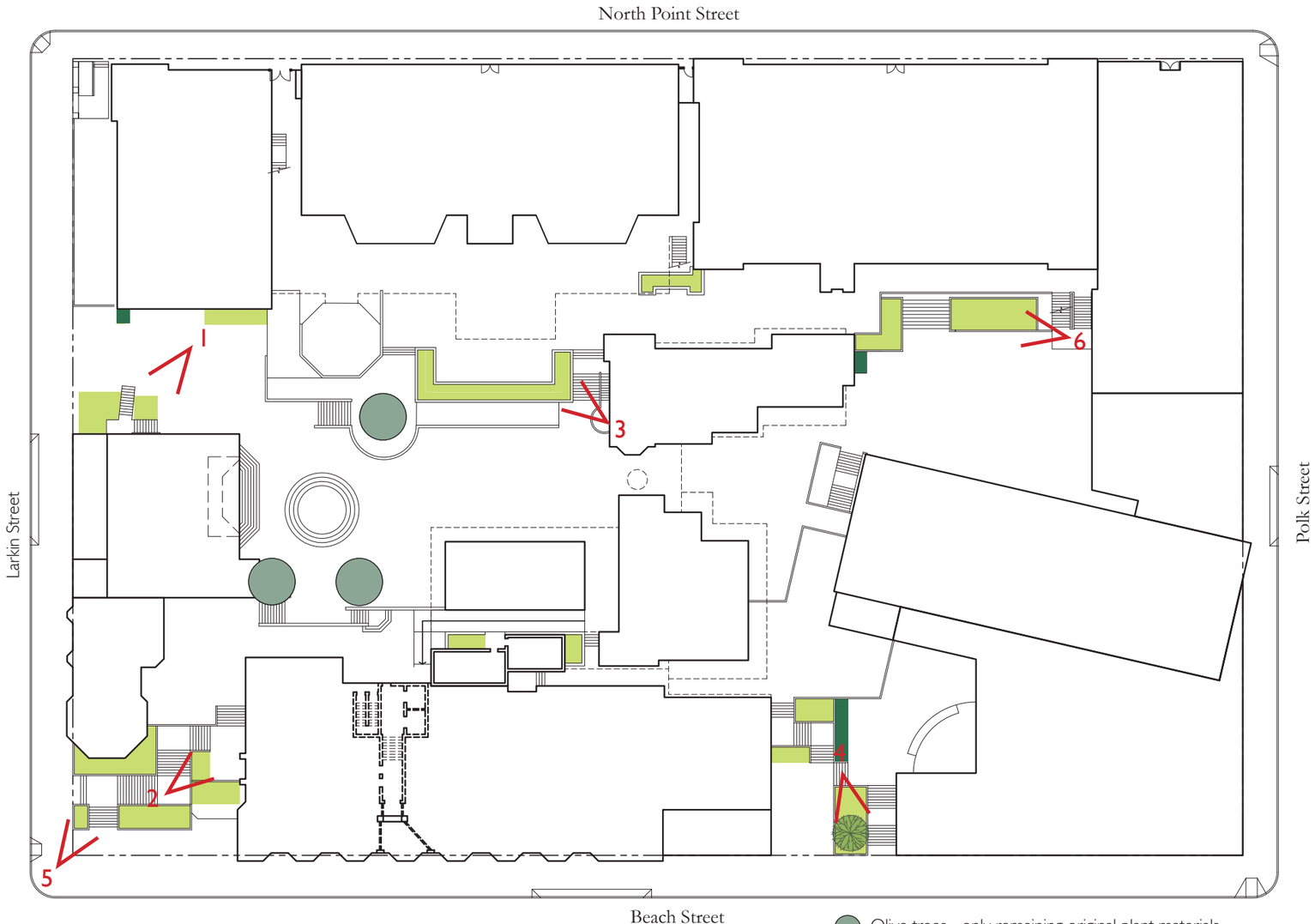


Photo locations from preceding page are noted on the above plan

- Olive trees - only remaining original plant materials
- Planter areas that date to the original Halprin planting design
- Planter areas that are not original

SITE

LANDSCAPE AND PLANT MATERIALS

COMPATIBILITY

Halprin's planting palette generally consisted of small scaled trees surrounded by shrubbery, perennials, and groundcover at the concrete planters. The plants had a leafy and bushy texture. Flowering plants had mostly red, violet, and white flowers and the flowers were small to medium in size. The plants were informally organized and were not manicured. The resulting character of the original planting palette was one that was abundant in texture and color, human in scale, and included substantial variety.

The recommended planting palette addresses compatibility by including 11 plants from Halprin's original planting palette so that it will be similar in character to the original in color, texture, and scale. New plants that may differ in texture are compatible in color and height. The scale will be maintained as will the color. Flowering plants will have similar tones: reds, violets, and white. Several existing planters contain plants that have been manicured and are boxy in appearance. The proposed planting scheme will be less formal than the existing, which includes manicured plants but will have more organization than Halprin's in order to promote ease of maintenance and longevity. Though fewer plants than the original will be included in the proposed palette, the palette will continue to convey a character with rich texture, color, and sufficient variety.

RECOMMENDED PLANTING PALETTE

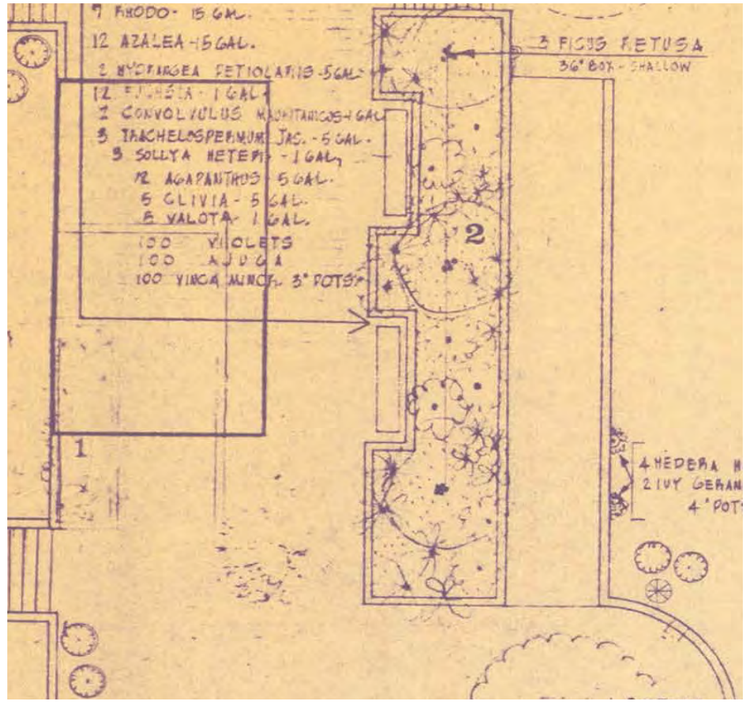
The primary criterion for the recommended planting palette should be compatibility with Halprin's original design intent. However, in response to the current California drought state of emergency declared by Governor Brown in January 2015, it is imperative that the recommended planting palette for Ghirardelli Square be composed of low water use plants that promote water conservation. WUCOLS IV (Water Use Classification of Landscape Species) is a project initiated and funded by the Water Use Efficiency Office of the California Department of Water Resources (DWR). It is recommended that future plantings at Ghirardelli Square are within the low to very low water needs category to ensure water conservation, drought tolerance and ease of maintenance.

While the original Halprin planting design was not low maintenance, it is a priority of the current owner that future plantings be low maintenance, to ensure their success in a marine environment as well as implementation of these guidelines. A majority of plant species from the Halprin design are categorized as having moderate water needs. Halprin also used a wide variety of species and filled relatively small planters with so many individual plant species that plants could not reach their full size at maturity. For example, the planter at the Upper Terrace area of the site (see Upper Terrace Planter Enlargement) had 363 individual plants, and 3 trees in a planter that is approximately 500sf, an average of just 1.37sf per plant. Based on structural drawings and the current site conditions, it can be estimated that this planter only had 24" of soil depth, which is inadequate for the health of small trees. Using less species both overall and in each planter will result in a planting palette that is more maintainable with healthier and longer lived plants. It is recommended that future plantings remain compatible with the diverse character the Halprin palette provided. This can be achieved by choosing plants that fall within the 4 main categories Halprin used; groundcovers and grasses, perennials, shrubs, and trees. The recommended palette aims to preserve variety while using less individual plant species, to allow for both compatibility with the original design, ease of maintenance and a better chance of success. This recommended planting palette is intended for all future plantings at Ghirardelli Square, in both fixed and movable planters.

COMPATIBILITY SUMMARY

The following is a summary of the criteria used to evaluate species selection and compatibility with the original Halprin-era palette:

1. Plant Type (groundcover/grasses, perennials, shrubs, tree)
2. Plant Form
3. Plant Leaf/Flower Color
4. Plant Height
5. Plant Texture
6. Evergreen/Deciduous
7. Maintenance
8. Species ability to thrive in marine environment
9. Sun/Shade tolerance
10. Water Usage



Upper Terrace Planter Enlargement

3	FICUS RETUSA
7	RHODODENDRON
12	AZALEA
2	HYDRANGEA
12	FUCHSIA
2	CONVOLVULUS
3	TRACHELOSPERMUM
3	SOLLYA HETEROPHYLLA
12	AGAPANTHUS
5	CLIVIA
5	VALOTA
100	VIOLETS
100	AJUGA
100	VINCA MINOR
366	TOTAL INDIVIDUAL PLANTS

LANDSCAPE AND PLANT MATERIALS

RECOMMENDED PLANTING PALETTE

GROUNDCOVER AND GRASSES

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance	Halprin Original
Cistus villosus 'Prostratus'	sageleaf rockrose	2'	low	yes	white	yes	no	yes	full sun	hardy, short-lived	yes
Convolvulus mauritanicus	ground morning glory	2'	low	yes	white	yes	no	yes	full sun	hardy, short-lived	yes
Juniperus conferta	shore juniper	1'	low	yes		no	no	yes	full sun or partial shade		yes
Juniperus procumbens	Japanese garden juniper	1' to 2.5'	low	yes		no	no		full sun or partial shade		yes
Leymus arenarius	blue lyme grass	2' to 3'	low	yes		yes	no	yes	full sun or partial shade	cut back in winter	
Muhlenbergia rigens	deer grass	4'	low	yes	yellow-purple	yes	yes	yes	full sun or partial shade		
Sollya heterophylla	Australian bluebell creeper	2' to 3'	low	yes	blue	yes	no	yes	partial shade		yes
Vinca minor	Periwinkle	6"	moderate	yes	lilac-blue	no	no		part sun to dense shade	deadhead after bloom	yes

PERENNIALS

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance	Halprin Original
Aeonium 'Mint Saucer'	Canary Island rose	2' to 3'	low	yes		yes	no	yes	full sun or partial shade	slow growth	
Agave attenuata 'Nova'	agave	1'	low	yes	green-yellow	yes	no	yes	full sun or partial shade	hardy	
Dietes grandiflora	fairy iris	3'	low	yes	white-yellow	yes	no	yes	full sun or partial shade		
Salvia chamaedryoides	Germander sage	1.5' to 2'	low	yes	blue	yes	no	yes	full sun or light shade		
Cyrtomium falcatum	Japanese holly fern	1' to 2'	moderate	yes		no	no		dense shade	cut back in early spring	yes

SHRUBS

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance	Halprin Original
Aloe 'Johnson's hybrid'	aloe	4' to 6'	low	yes	orange	yes	no	yes	full sun or partial shade		
Lavandula angustifolia 'Hidcote'	English lavender	2'	low	yes	violet	yes	no	yes	full sun	prune after flowering	
Pittosporum tobira	mock orange	6' to 15'	low	yes	creamy white	no	no	yes	full sun or partial shade		yes
Rhaphiolepis indica	Indian hawthorne	4' to 5'	low	yes		yes	no		sun or part shade		yes
Myrtus communis 'Compacta"	dwarf myrtle	2' to 4'	low	yes	creamy white	yes	no		sun or part shade		
Sarcococca confusa	sweet box	3' to 5'	low	yes	white	yes	no		full to partial shade	prune annually	

TREES

Botanical Name	Common Name	Height	Water Use	Evergreen	Flower	DPW Recommended	CA Native	Salt / Wind	Sun	Maintenance	Halprin Original
Arbutus unedo	strawberry tree	35'	low	yes	greenish-white	no	no	yes	sun or part shade		yes
Olea europaea	olive	30'	very low	yes		no	no	yes	full sun		yes
Pittosporum undulatum	Victorian box	30'	low	yes	creamy white	no	no		full sun or partial shade		yes
Ulmus parvifolia 'Brea'	Chinese evergreen elm	40' to 60'	low	yes		no	no		full sun		yes

NOTE: The recommended planting palette is intended to identify examples of suitable plant species, actual species for future work may deviate from above species, but shall follow the criteria noted on the previous page. Built-in planters shall incorporate as many of the original Halprin-era plant categories (groundcover/grasses, perennials, shrubs, and trees) as feasible. Feasibility shall be based on the size and shape of the planter, and ease of maintenance.

LANDSCAPE AND PLANT MATERIALS

RECOMMENDED PLANTING PALETTE

GROUNDCOVER AND GRASSES

Cistus villosus 'Prostratus'
sageleaf rockrose

Convolvulus mauritanicus
ground morning glory

Juniperus conferta
shore juniper

Juniperus procumbens
Japanese garden juniper

Leymus arenarius
blue lyme grass

Muhlenbergia rigens
deer grass

Sollya heterophylla
Australian bluebell creeper

GROUNDCOVER AND GRASSES

Vinca minor
Periwinkle

PERENNIALS

Aeonium 'Mint Saucer'
Canary Island rose

Phormium tenax 'Dusky Chief'
New Zealand flax

Dietes grandiflora
fairy iris

Salvia chamaedryoides
Germander sage

Cyrtomium falcatum
Japanese holly fern

SHRUBS

Lavandula angustifolia 'Hidcote'
English lavender

Rhaphiolepis indica
Indian hawthorne

Pittosporum tobira
mock orange

Myrtus communis 'Compacta'
dwarf myrtle

Sarcococca confusa
sweet box

TREES

Arbutus unedo
strawberry tree

Olea europaea
olive

Pittosporum undulatum
Victorian box

Ulmus parvifolia
Chinese evergreen elm

PLANT PALETTE COMPARISON

GROUNDCOVER AND GRASSES

Original Halprin Plants	Recommended Alternatives
Botanical Name: Ajuga Height: 6" Flower Color: blue-purple Water Usage: moderate Maintenance: spreads by runners Enviornment: full sun or partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs and high maintenance requirements.	Botanical Name: Sollya heterophylla Height: 2' to 3' Flower Color: blue Water Usage: low Enviornment: partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name: Cistus villosus 'Prostratus' Height: 2' Flower Color: white Water Usage: low Maintenance: hardy, short-lived Enviornment: full sun Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.	Original plant recommended
Botanical Name: Convolvulus mauritanicus Height: 1' to 2' Flower Color: lavender-blue Water Usage: low Enviornment: best in sun / some shade ok Recommendation: This plant is recommended for future installation at Ghirardelli square because its low water needs.	Original plant recommended
Botanical Name: Erica 'Spring White' Height: 8" Flower Color: white Water Usage: moderate Maintenance: tough, fast growing Enviornment: full sun or partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Botanical Name: Cistus villosus 'Prostratus' Height: 2' Flower Color: white Water Usage: low Maintenance: hardy, short-lived Enviornment: full sun Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name: Ficus pumila Height: 6" Water Usage: moderate Enviornment: full sun or partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Botanical Name: Juniperus conferta Height: 1' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Botanical Name: Hedera canariensis Height: 6" Water Usage: moderate Maintenance: invasive Enviornment: full sun or partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs, high maintenance requirements, and known to be invasive.	Botanical Name: Juniperus conferta Height: 1' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Botanical Name: Hedera helix 'Oakleaf' Height: 6" Water Usage: moderate Maintenance: invasive Enviornment: full sun or partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs, high maintenance requirements, and known to be invasive.	Botanical Name: Juniperus conferta Height: 1' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.

Original Halprin Plants	Recommended Alternatives
Botanical Name: Juniperus conferta Height: 1' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.	Original plant recommended
Botanical Name: Juniperus procumbens Height: 1' to 2.5' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.	Original plant recommended
Botanical Name: Pachysandra Height: 1' Water Usage: moderate Enviornment: partial or full shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Botanical Name: Juniperus conferta Height: 1' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Botanical Name: Parthenocissus tricuspidata Height: 1' Water Usage: moderate Enviornment: sun or shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs, high maintenance requirements, and is not appropriate for marine environment.	Botanical Name: Juniperus procumbens Height: 1' to 2.5' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Botanical Name: Sollya heterophylla Height: 2' to 3' Flower Color: blue Water Usage: low Enviornment: partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.	Original plant recommended
Botanical Name: Trachelospermum jasminoides Height: 2' Flower Color: white Water Usage: moderate Enviornment: light shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Botanical Name: Alt 1: Leymus arenarius Alt 2: Muhlenbergia Rigens Height: 2'-4' Water Usage: low Enviornment: full sun or partial shade Recommendation: This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name: Vinca minor Height: 6" Flower Color: lavender-blue Water Usage: moderate Enviornment: partial shade Recommendation: This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Original plant recommended

SITE

PLANT PALETTE COMPARISON

PERENNIALS

Original Halprin Plants		Recommended Alternatives	
Botanical Name:	Acanthus mollis 'Oakleaf'	Botanical Name:	Aeonium 'Mint Saucer'
Height:	4' to 5'	Height:	2' to 3'
Flower Color:	white, rose	Flower Color:	yellow
Water Usage:	moderate	Water Usage:	low
Maintenance:	can be invasive, hardy	Maintenance:	slow growth
Enviornment:	sun or shade	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs, high maintenance requirements, and known to be invasive.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, not invasive, and ability to thrive in a marine
Botanical Name:	Agapanthus	Botanical Name:	Phormium tenax 'Dusky Chief'
Height:	4' to 5'	Height:	3'
Flower Color:	blue or white	Water Usage:	low
Water Usage:	moderate	Maintenance:	hardy
Maintenance:	low maintenance	Enviornment:	full sun or partial shade
Enviornment:	full sun or partial shade	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.		
Botanical Name:	Agapanthus 'Peter Pan'	Botanical Name:	Salvia chamaedryoides
Height:	1.5'	Height:	1.5' to 2'
Flower Color:	blue	Water Usage:	low
Water Usage:	moderate	Maintenance:	hardy
Maintenance:	low maintenance	Enviornment:	full sun or light shade
Enviornment:	full sun or partial shade	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.		
Botanical Name:	Clivia	Botanical Name:	Dietes grandiflora
Height:	2'	Height:	3'
Flower Color:	orange-red	Water Usage:	low
Water Usage:	moderate	Maintenance:	hardy
Enviornment:	some shade	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Cyrtanthus elatus	Botanical Name:	Phormium tenax 'Dusky Chief'
Height:	1' to 2'	Height:	3'
Flower Color:	orange-red	Water Usage:	low
Water Usage:	moderate	Maintenance:	hardy
Enviornment:	light shade	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Cyrtomium falcatum	Original plant recommended	
Height:	2' to 3'		
Water Usage:	moderate		
Enviornment:	partial or full shade		
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.		

Original Halprin Plants		Recommended Alternatives	
Botanical Name:	Dianthus allwoodii	Botanical Name:	Aeonium 'Mint Saucer'
Height:	1.5'	Height:	2' to 3'
Water Usage:	moderate	Water Usage:	low
Maintenance:	pink-white-red	Maintenance:	slow growth
Enviornment:	sun or shade	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, not invasive, and ability to thrive in a marine environment.
Botanical Name:	Fuchsia	Botanical Name:	Phormium tenax 'Dusky Chief'
Height:	3' to 6'	Height:	3'
Water Usage:	moderate	Water Usage:	low
Enviornment:	full sun or partial shade	Maintenance:	hardy
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Enviornment:	full sun or partial shade
		Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Hosta lilies	Botanical Name:	Aeonium 'Mint Saucer'
Height:	3' to 6'	Height:	2' to 3'
Water Usage:	moderate	Flower Color:	yellow
Enviornment:	partial or full shade	Water Usage:	low
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Maintenance:	slow growth
		Enviornment:	full sun or partial shade
		Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, not invasive, and ability to thrive in a marine environment.
Botanical Name:	Liriope muscari	Botanical Name:	Dietes grandiflora
Height:	1.5'	Height:	3'
Flower Color:	violet	Water Usage:	low
Water Usage:	moderate	Maintenance:	hardy
Enviornment:	full sun or partial shade	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Ophiopogon japonicus	Botanical Name:	Juniperus conferta
Height:	8"	Height:	1'
Water Usage:	moderate	Water Usage:	low
Enviornment:	partial to full sun	Enviornment:	full sun or partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs , low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Violet	Botanical Name:	Cistus villosus 'Prostratus'
Height:	1'	Height:	2'
Flower Color:	Violet	Flower Color:	white
Water Usage:	moderate	Water Usage:	low
Enviornment:	sun or partial shade	Maintenance:	hardy, short-lived
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Enviornment:	full sun
		Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.

PLANT PALETTE COMPARISON

SHRUBS

Original Halprin Plants		Recommended Alternatives	
Botanical Name:	Azalea	Botanical Name:	Rhaphiolepis indica
Height:	3' to 6'	Height:	4' to 5'
Water Usage:	moderate	Water Usage:	low
Enviornment:	filtered sunlight	Enviornment:	sun or part shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.
Botanical Name:	Camellia	Botanical Name:	Rhaphiolepis indica
Height:	20'	Height:	4' to 5'
Water Usage:	moderate	Water Usage:	low
Enviornment:	partial shade	Enviornment:	sun or part shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs and high maintenance requirements.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.
Botanical Name:	Coprosma baueri	Botanical Name:	Rhaphiolepis indica
Height:	up to 10'	Height:	4' to 5'
Water Usage:	moderate	Water Usage:	low
Maintenance:	easy to maintain	Enviornment:	sun or part shade
Enviornment:	full sun or partial shade	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.		
Botanical Name:	Griselinia lucida	Botanical Name:	Sarcococca confusa
Height:	up to 10'	Height:	3' to 5'
Water Usage:	moderate	Water Usage:	low
Enviornment:	full sun or partial shade	Enviornment:	full to partial shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, hardiness and tolerance of dense shade.
Botanical Name:	Hebe menziesii	Botanical Name:	Myrtus communis 'Compacta''
Height:	3'	Height:	2' to 4'
Flower Color:	violet	Flower Color:	violet
Water Usage:	moderate	Water Usage:	low
Enviornment:	sun or part shade	Maintenance:	
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Enviornment:	sun or part shade
		Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.
Botanical Name:	Hydrangea petiolaris	Botanical Name:	Lavandula angustifolia 'Hidcote'
Height:	climbing up to 60'	Height:	2'
Water Usage:	moderate	Flower Color:	violet
Maintenance:	white	Water Usage:	low
Enviornment:	partial shade	Maintenance:	prune after flowering
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Enviornment:	full sun
		Recommendation:	This plant is recommended for future installation at Ghirardelli square because of its low water needs, low maintenance, and ability to thrive in a marine environment.

Original Halprin Plants		Recommended Alternatives	
Botanical Name:	Pittosporum tobira	Original plant recommended	
Height:	6' to 15'		
Flower Color:	creamy white		
Water Usage:	low		
Enviornment:	full sun or partial shade		
Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.		
Botanical Name:	Rhaphiolepis indica	Original plant recommended	
Height:	4' to 5'		
Water Usage:	low		
Enviornment:	sun or part shade		
Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.		
Botanical Name:	Rhododendron	Botanical Name:	Rhaphiolepis indica
Height:	3' to 6'	Height:	4' to 5'
Water Usage:	moderate	Water Usage:	low
Enviornment:	filtered sunlight	Enviornment:	sun or part shade
Recommendation:	This plant is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Recommendation:	This plant is recommended for future installation at Ghirardelli square because of it low water needs, low maintenance, and hardiness.

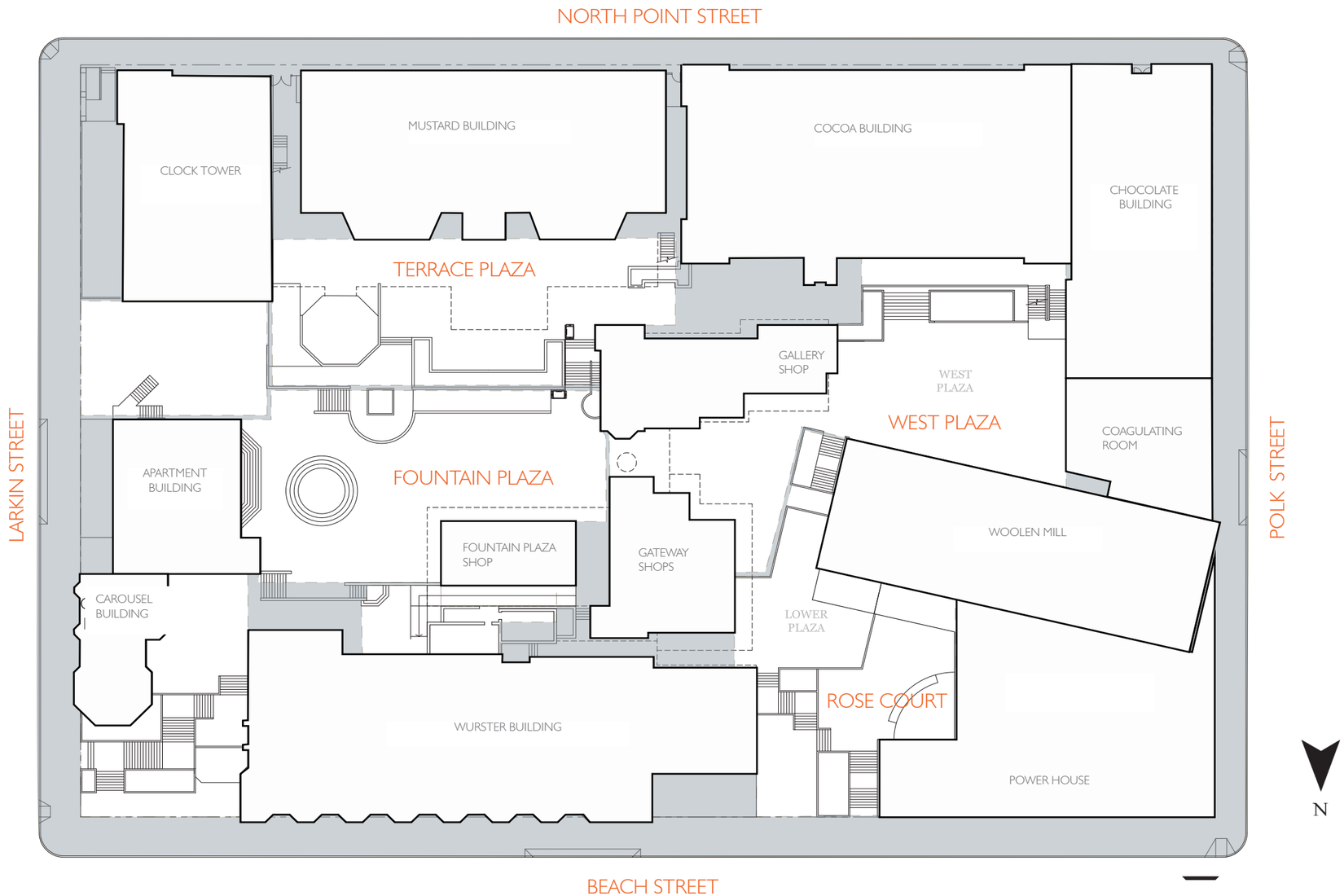
PLANT PALETTE COMPARISON

TREES

Original Halprin Plants	Recommended Alternatives
Botanical Name: Arbutus unedo Height: 35' Flower Color: green-white Water Usage: low Enviornment: sun or part shade Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs and suitable scale.	Original plant recommended
Botanical Name: Ficus retusa Height: 30' Water Usage: moderate Enviornment: full sun or partial shade Recommendation: This tree is not recommended for future installation at Ghirardelli square because of its moderate water needs.	Botanical Name: Arbutus unedo Height: 35' Flower Color: green-white Water Usage: low Enviornment: sun or part shade Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs and suitable scale.
Botanical Name: Olea eurpaea Height: 30' Water Usage: very low Enviornment: full sun Recommendation: This tree is recommended for future installation at Ghirardelli square because the reconfigured plaza planters contain adequate soil depth to support species and grows to suitable scale.	Original plant recommended
Botanical Name: Phoenix canriensis Height: to 60' Water Usage: low Enviornment: full sun or partial shade Recommendation: This tree is not recommended for future installation at Ghirardelli square because it is not a suitable scale for this plaza and it was an existing tree incorporated into the original Halprin plant palette that has since died.	Botanical Name: Arbutus unedo Height: 35' Flower Color: green-white Water Usage: low Enviornment: sun or part shade Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs and suitable scale.
Botanical Name: Pinus thunbergii Height: 100' Water Usage: moderate Enviornment: full sun Recommendation: This tree is not recommended for future installation at Ghirardelli square because of its moderate water needs, not a suitable scale for this plaza, and it was an existing tree incorporated into the original Halprin plant palette that has since died.	Botanical Name: Arbutus unedo Height: 35' Flower Color: green-white Water Usage: low Enviornment: sun or part shade Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs and suitable scale.
Botanical Name: Pittosporum undulatum Height: 30' Flower Color: creamy white Water Usage: low Enviornment: full sun or partial shade Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs and suitable scale.	Original plant recommended

Original Halprin Plants	Recommended Alternatives
Botanical Name: Platanus acerifolia Height: 40' to 80' Water Usage: moderate Enviornment: full sun Recommendation: This tree is not recommended for future installation at Ghirardelli square because of its moderate water needs and because it was originally planted as a street tree and the recommended palette pertains to plaza planters.	N/A
Botanical Name: Ulmus parvifolia 'Brea' Height: 40' to 60' Water Usage: low Enviornment: full sun Recommendation: This tree is recommended for future installation at Ghirardelli square because of its low water needs.	Original plant recommended

SIGNIFICANCE ANALYSIS



ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: WOOLEN MILL

OVERVIEW

The Woolen Mill was constructed in 1862 and is the oldest building on the site. The Woolen Mill is the first woolen mill and one of the first factories in California. When D. Ghirardelli Company purchased the property, the building was reused for chocolate manufacturing. In 1968, the building was adapted for shop and restaurant use. The 1960s landscape plan resulted in partially obscuring the first floor of the Woolen Mill.

PRIMARY CONTRIBUTING FEATURES

- Red brick exterior, including the projecting courses of brick at the cornice line
- Form and massing
- Regular fenestration pattern
- Gable roof
- Orientation

EXTERIOR ALTERATIONS

- Windows and doors have been replaced.
- Original metal roof was replaced with a clay tile roof.
- Glass enclosure was added on the north side.
- Bank kiosk installed within south facade.
- Awnings were added to some openings.

Woolen Mill: ca. 1900

Woolen Mill: East facade

Woolen Mill: Aerial view, looking northwest

Woolen Mill: West facade (behind Power House) along Polk Street (shown in dashed rectangle)

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: POWER HOUSE

Power House: ca 1920, Photographer Unknown. National Register Nomination

OVERVIEW

The Power House was constructed in 1915 as a one-story red brick building and adaptively reused for a theater in 1968. The Power House was later converted to a restaurant.

Primary facades are at Beach and Polk streets. The building's secondary facades face the Square.

PRIMARY CONTRIBUTING FEATURES

- Red brick exterior laid in an American bond pattern
- Sheet metal cornice
- Gable roof
- Brick quoins at corners
- Arched openings with industrial sash windows
- Cement plaster base scored to look like stonework
- White painted accent brick at windows' springlines and keystones

EXTERIOR ALTERATIONS

- Two of the arched windows along Beach Street were altered to accommodate entrances.
- Two arched windows along Beach Street were originally entrances and later changed back to windows.
- Entrances at Rose Court have been modified.

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: POWERHOUSE

View of Ghirardelli Square with Power House at the forefront: ca 1975, Photograph by John Griffith. National Register Nomination

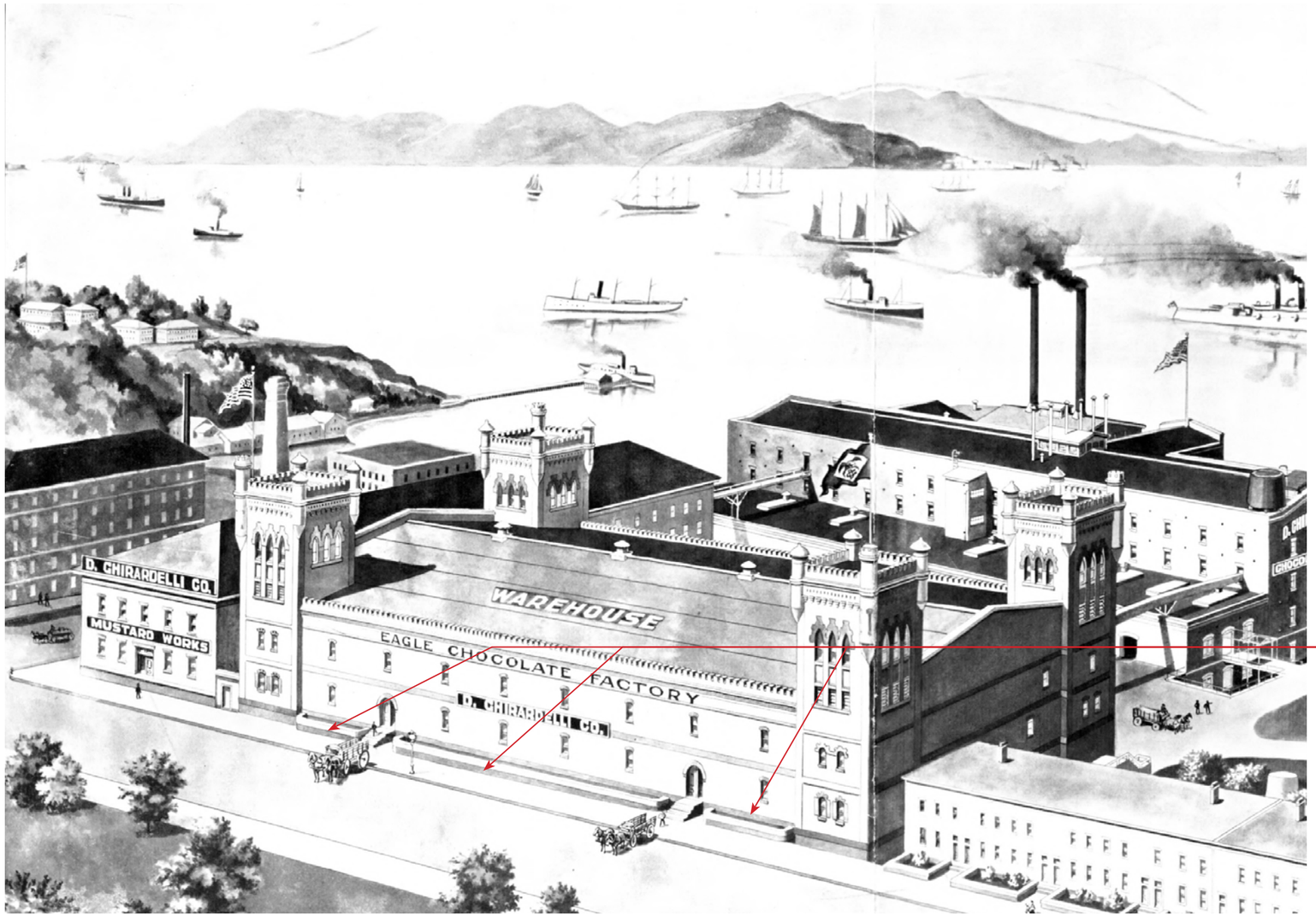
ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: POWER HOUSE - EXISTING CONDITION

Power House - view from Larking and Beach streets. Note: there are currently three full height openings along Beach Street

Existing Condition at Rose Court facade, note non-original door

Opening at Beach Street entry

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: COCOA BUILDING



Rendering of the Ghirardelli Square, Ca 1903, From National Register Nomination

OVERVIEW

The Cocoa Building was constructed in 1900 and was originally only two stories in height. The third and fourth stories were constructed early in the building's history. Originally the building had lightwells that brought light to a lower floor. that is accessed on the north side of the building. The lightwells have been removed and the windows have been filled in.

PRIMARY CONTRIBUTING FEATURES

- Red brick exterior laid in an American bond pattern
- Crenalated parapet
- White-painted cast concrete quoins
- Ornamental grand entry along North Point Street
- Double hung steel windows

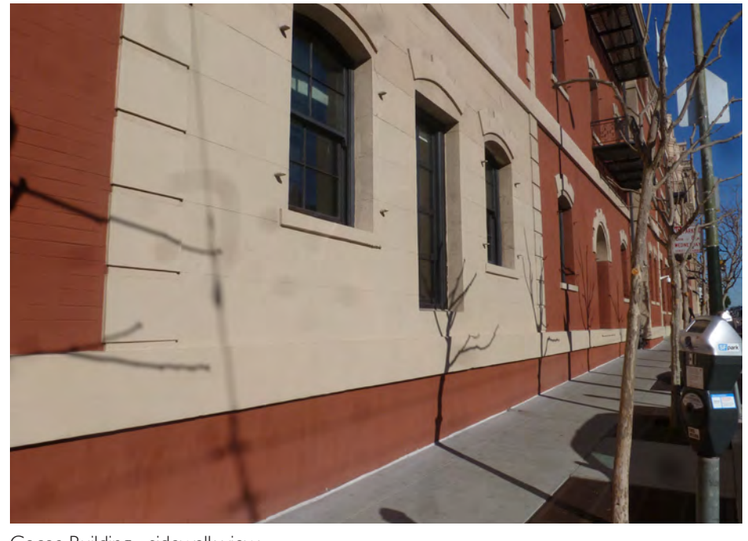
EXTERIOR ALTERATIONS

- Removal of lightwells and infill of corresponding windows
- Storefront door at grand entry
- Metal Canopy at grand entry
- Flag signage at grand entry

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: COCOA BUILDING

Cocoa Building and Mustard Building, Ca 1919. Note lightwell in red rectangle

Interior view of windows at basement level of Cocoa Building that were filled in



Cocoa Building - sidewalk view

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: APARTMENT BUILDING

Apartment Building: Note that the steps at the existing west facade were not part of the 1960s rehabilitation (Environmental Design Archives, 1960s).

Apartment Building: Note that the existing green house on the east elevation had not yet been constructed (Environmental Design Archives, 1960s).

Apartment Building: Existing steps are not a contributing feature.

Apartment Building, east facade: Existing green house is not a contributing feature.

OVERVIEW

The Apartment Building was constructed in 1916 as living accommodations for the day manager and night watchman. The building was converted to a restaurant in 1964 and later to a retail shop. The building is currently vacant. The building provides an entry to the underground garage from Larkin Street though its primary (west) elevation facing Fountain Plaza.

PRIMARY CONTRIBUTING FEATURES

- Red brick exterior
- Form and massing
- White painted quoins, sills, and voussoirs
- Cornice and decorative parapet on east facade
- Fenestration pattern

1960S ALTERATIONS

The 1960s alterations include glass enclosures at the north and west façades. The west enclosure was removed and replaced with a new storefront entry.

POST-1960S EXTERIOR ALTERATIONS

- Storefront on west facade
- Steps that lead to entry on west facade
- Stairs on south facade
- Green house enclosure on east facade

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: COAGULATING ROOM

OVERVIEW

The construction date of the Coagulating Room is unknown. In 1968, the Coagulating Room was rehabilitated for use as a service entrance from Polk Street and a shop that faced the West Plaza level. A large roll-down metal door was installed on the Polk Street facade. The National Register nomination describes the 1960s east façade as all glass with black painted, steel framing. The roof above the shop was once used as a nursery; however, the space is now part of the Fairmont Residence Hotel.

PRIMARY CONTRIBUTING FEATURES

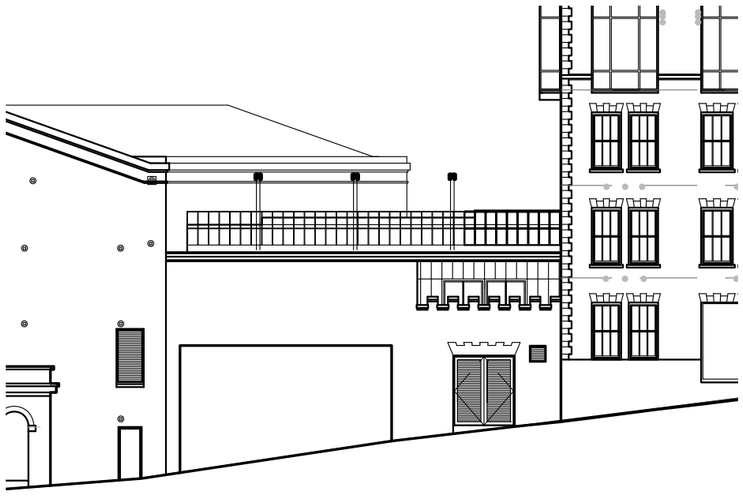
- Red brick exterior along Polk Street
- Crenelated parapet
- White brick voussoirs

POST-1960S EXTERIOR ALTERATIONS

- The steel framed window wall facing West Plaza has been replaced with a frameless window wall

Polk Street facade

West Court facade



Polk Street facade

View of Polk Street facade, looking northeast

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ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: CAROUSEL BUILDING

OVERVIEW

The Carousel Building was constructed in 1964 and designed by Wurster, Bernardi and Emmons. The building sits above a partial basement at the northeast corner of the site. The northern portion of the building is octagonal in shape with exterior walls that are constructed of glass with steel framing. The remainder of the building is clad with sand mold brick. An octagonal copper roof sits above the glass octagon. The Carousel Building has been used as a restaurant since its construction. Though not individually outstanding, the building's significance lies in its association with the rehabilitation of the Ghirardelli Square.

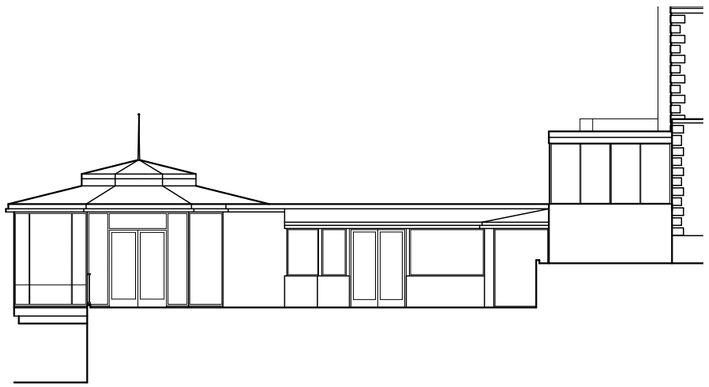
PRIMARY CONTRIBUTING FEATURES

- Octagonal shape
- Copper octagonal shaped roof
- Red sand mold brick
- Metal framed window wall

Carousel Building: North facade

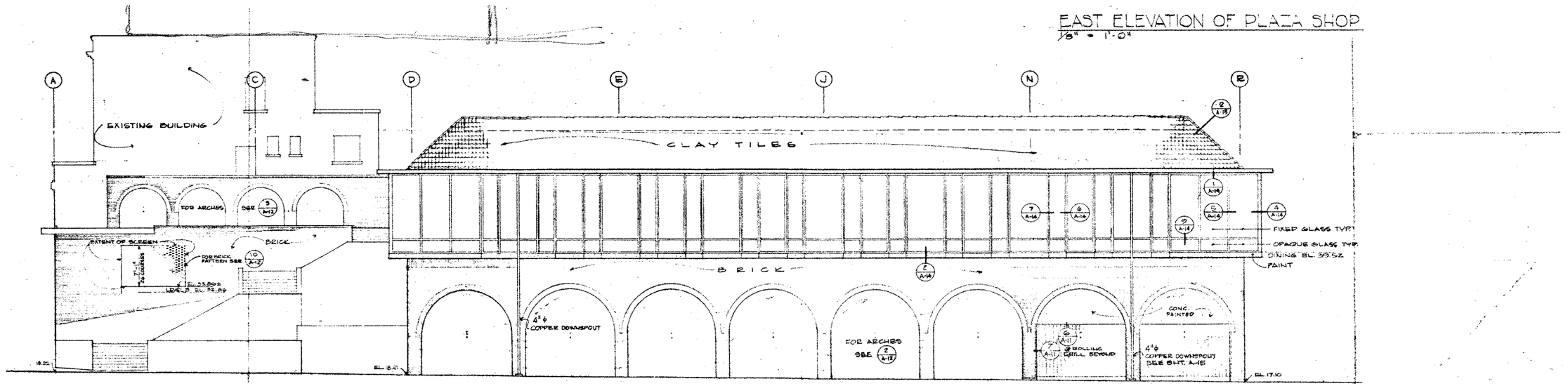
Carousel Building: West facade

Carousel Building: East (Larking Street) facade

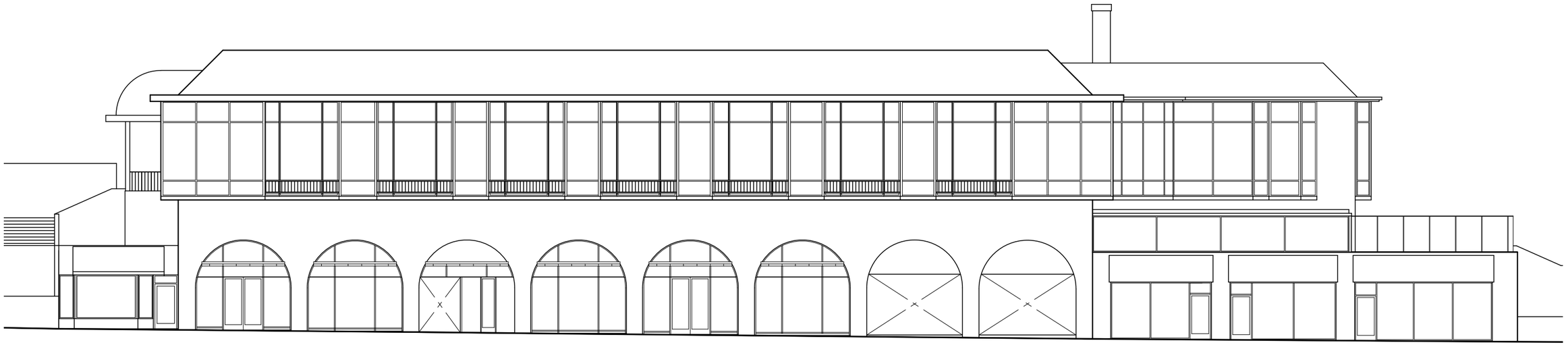


Carousel Building: West facade

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: WURSTER BUILDING



Historic drawing of Beach Street elevation of Wurster Building



Existing Wurster Building: South and North elevations

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: WURSTER BUILDING

OVERVIEW

The Wurster Building was constructed in two phases and was designed by Wurster, Bernardi, and Emmons. The eastern portion was constructed in 1964 and the smaller western portion was constructed in 1968. The building is notable for its compatibility with the original buildings at Ghirardelli Square and its association with the 1960s rehabilitation of Ghirardelli Square. Restaurants have occupied the upper floor of the building and small retail shops and restaurants the lower floor.

PRIMARY CONTRIBUTING FEATURES

- Red brick exterior
- Form and massing, including the mansard roof
- Arched openings that are similar to the Power House
- Metal frame window wall with bay windows at upper level (Beach Street Facade)

POST-1960S EXTERIOR ALTERATIONS

- Entry on east facade, including the half dome inserted into the roof
- Glass entry on south facade
- Window wall replaced with new windows that have a horizontal division at the top.
- Storefronts at street level replaced with new storefronts that were installed within the arches.
- Metal canopies were installed at the arches were retail occur.
- Blade signs installed.

Wurster Building: North facade, view looking southeast
(Photo from Nat'l Register Nomination)

Wurster Building: 1980 addition at south facade

Wurster Building: North facade, view looking southwest

Wurster Building: Western portion built in 1968

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: PAVILIONS

1960s photo of Fountain Plaza, looking west

Appropriate storefront replacement at the Gateway Shops

Gallery Building showing addition in dashed rectangle

Storefront at Fountain Plaza Shop

OVERVIEW

The 1960s work including several small infill buildings designed by Wurster Bernardi and Emmons. The buildings were designed as contemporary buildings whose scale blended well within the context of the original Ghirardelli buildings. The buildings are clad with red sand mold brick that is compatible with the original buildings. The pavilion buildings also feature window walls that give them an airy, transparent quality.

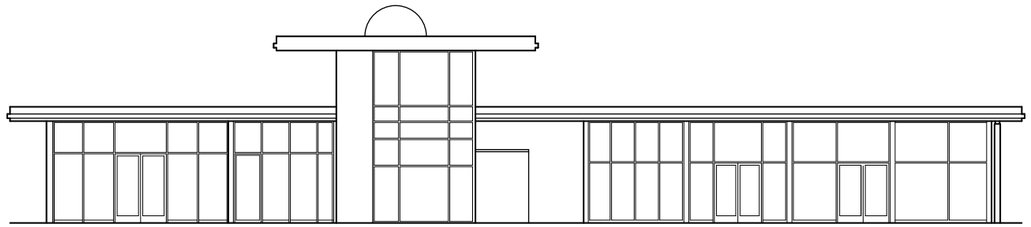
PRIMARY CONTRIBUTING FEATURES

- Red sand mold brick exterior
- Window walls with black metal framing
- Flat roofs

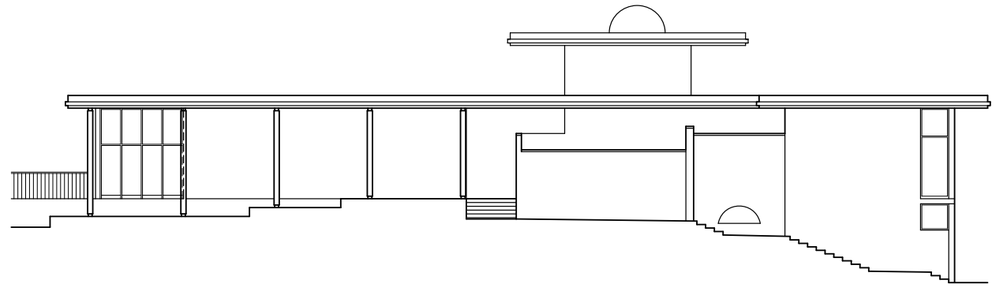
POST-1960S EXTERIOR ALTERATIONS

- The Terrace Level Shop along the south façade of the Mustard Building has been demolished
- The Gallery Shop was altered when the western portion of the window wall was removed and replaced with a contemporary brick and metal-frame addition
- Addition of new storefront building between the Gallery Building and the Gateway Shops
- Removal of upper glass that spanned from across the north and south sides of the Gateway Shops
- Addition of Information Booth at Gateway Shop
- Addition of new openings at brick wall of Gateway Shop

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: PAVILIONS



North Plaza Pavilion: south elevation

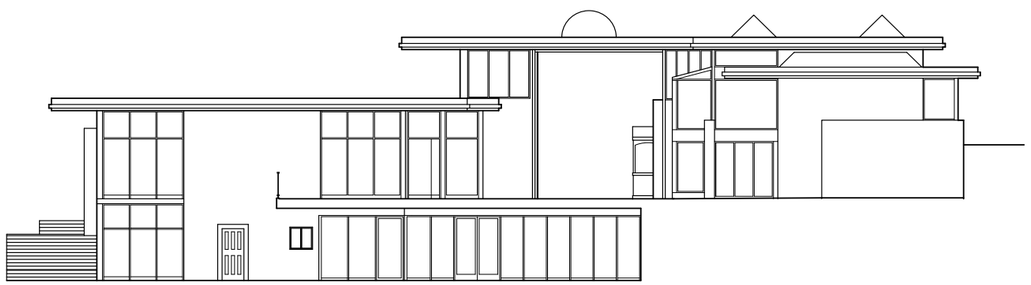


North Plaza Pavilion: north elevation

South Plaza Pavilion: south elevation

South Plaza Pavilion: north elevation

South and North Plaza Pavilions: east elevation



South and North Plaza Pavilions: west elevation

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - FOUNTAIN PLAZA

OVERVIEW

The Ghirardelli landscaping plan was designed by Lawrence Halprin and was constructed in two phases. The landscape plan features two main large plazas, Fountain Plaza (east side of the Square) and West Plaza.

Fountain Plaza was constructed during Phase 1 of the Ghirardelli Square1960s construction and receives more visitors than the other open spaces at the Square. The Ghirardelli Square buildings along the street edge of the site have their primary facades facing the street. Fountain Plaza's open design allows it to serve as both a gathering space as well as an urban circulation path that connects the edges of the perimeter buildings on the east side of Ghirardelli Square. It is simply designed with minimal landscape and has a single dominant feature, the fountain.

The original plaza consisted of coarse aggregate concrete within a grid of fine aggregate concrete.The original construction also included wood benches throughout the Plaza. The fountain was designed by Halprin and features a mermaid sculpture by Ruth Asawa.

PRIMARY CONTRIBUTING FEATURES

- Fountain
- Board form concrete walls at perimter

POST 1960S ALTERATIONS

- Replacement of concrete paving with brick paving
- Removal of benches from the 1960s
- Free standing planters

Fountain Plaza, Historic View

Existing conditions at Apartment House and Mermaid Fountain

1960s photo prior to the installation of the mermaid sculpture. Note the benches in front of the Apartment Building.

Existing fountain seating creates a pedestrian bottleneck

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - LARKIN STREET GATEWAYPLAZA

OVERVIEW

The Larkin Street Gateway is the main entrance into Ghirardelli Square from Larkin Street. The 1960s renovation included the arched entry, planters adjacent to the Apartment House Building, and concrete paving laid out in a grid. The paving has since been replaced with brick pavers and the planters have been altered to accommodate a chair lift that serves as the ADA entrance into the Apartment Building. The ADA alterations resulted in a redundant stair leading to the Apartment House Building framed by an awkward planter.

PRIMARY CONTRIBUTING FEATURES

- Gateway Sign
- Planter
- Wrought iron gates

POST 1960S ALTERATIONS

- ADA Stair and lift
- Replacement of the concreted paving with brick pavers
- The size and extent of both original planters within this gateway plaza have both been substantially altered since the 1960s.

Eastern Gateway, historic view

Eastern Gateway, view from Larkin Street

Eastern Gateway, looking East

Eastern Gateway, looking Northwest

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - UPPER TERRACE PLAZA

OVERVIEW

The Upper Terrace plaza connects Fountain Plaza to the Mustard Building as well as to North Point Street and was part of the Phase I work that was completed in 1964. Upper Terrace originally had concrete paving within a grid pattern and included wood benches that were incorporated with the design of the large planter that defines the northern edge of the terrace.

The Upper Terrace plaza was altered in the 1980s with the addition of ramps, steps and modifications to the large planter. The wood benches were removed at that time.

POST 1960S ALTERATIONS

- The height of the plaza was raised
- Reconfiguration of the planter, addition of a new ramp, and planter
- A carillon was constructed

Recent improvements in 2015 included a simplification of circulation, introduction of a lift to provide accessibility, and a reintroduction of benches to this area. New paving retains the texture of the original concrete as well as the grid pattern.

PRIMARY CONTRIBUTING FEATURES

- Concrete paving with a grid pattern
- Boardform concrete walls at the perimeter
- Semi-circular projection of the terrace
- Ramp connecting Fountain Plaza to the Upper Terrace
- Halprin-era planters including the planting bed for the olive tree

Key Plan

View of Upper Terrace Plaza

West Plaza, view looking west, 2015

View of renovated Upper Terrace, looking northwest

View of renovated Upper Terrace, looking east

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - PROMENADE LEVEL

OVERVIEW

The Promenade Level at Ghiradelli is an intermediate level between Fountain Plaza and the top landing of the steps leading from the Beach Street entry. This area was originally paved with a concrete grid pattern consisting of coarse seeded concrete outlined by fine-seeded concrete. This area was modified in the 1980s when restrooms were added at the south side of the Wurster Building at the Promenade Level. The 1980 modifications resulted in a circuitous connection between the east and west sides of Ghirardelli Square and no clear line of sight. Remnants of the original paving remains at the ramp areas but most of the original paving was removed when the 1980s alterations were executed. The planters in this area have been modified and new concrete patches are visible.

CONTRIBUTING FEATURES

- Boardform concrete walls at the permeter
- Planters
- Some original paving remains

POST-1960S EXTERIOR ALTERATIONS

- Replacement of some of the original paving with brick paving
- Addition of new steps from Fountain Plaza to the Promenade Level
- Addition of restrooms
- Modification of original ramp

Promenade Level View looking west (Environmental Design Archives, 1960s)

Promenade Level: Existing condition photo, view looking east (non-historic steps in dashed rectangle)

Promenade Level: Existing condition photo of View looking west

Promenade Level: Existing condition photo, view looking west

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - LARKIN STREET AND BEACH STREET STAIRS

OVERVIEW

The entrance to Ghirardelli Square from Larkin and Beach streets is made up of a series of concrete steps, landings, and planters. This entrance dates from the Phase I construction completed in 1964 and is largely unaltered. The Larkin and Beach street entrance is also one of the primary entrances through which the Square is accessed.

PRIMARY CONTRIBUTING FEATURES

- Boardform concrete walls that make up the walls of the planters
- Series of steps and landings that lead up to the Square that include planters
- Original lollipop lights

POST-1960S EXTERIOR ALTERATIONS

- Light structures installed in 2007

1960s Photo of the Northeast Gateway (looking southwest)

Northeast Gateway from Beach Street

Northeast Gateway from Larkin Street

Rendering of existing Northeast Gateway from Beach Street

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - WEST PLAZA

OVERVIEW

West Plaza was constructed in 1968 as part of Phase II of Ghirardelli Square. Lawrence Halprin chose concrete paving for Fountain Plaza; however, he chose brick paving for West Plaza. Similar to Fountain Plaza, West Plaza was designed with a grid pattern. The grid consisted of brick laid out with the soldier face of the brick exposed. while the field of the grid had the sailor face of the brick exposed. West Plaza has been repaved using brick paving; however, the brick is no longer laid out within a grid.

West Plaza includes a lower patio shared by the lower levels of the Chocolate and Cocoa Buildings. The space includes a large planter and concrete steps that connect it to the main level of West Plaza. Original drawings indicate that the space was originally paved with patio tile. Today, the space is paved with brick that matches the non-original brick of West Plaza.

PRIMARY CONTRIBUTING FEATURES

- Open expanse
- Guard rail through out
- Steps that lead down to the lower level patio area
- Concrete planters in the lower patio area

POST-1960S EXTERIOR ALTERATIONS

- Replacement of original brick paving
- Replacement of patio tile with brick paving

View of Coagulation Building with West Plaza in the foreground. (Allen Nomura, 1982)

Lower level of West Plaza, Adjacent to Cocoa Building - view looking west

West Plaza, view looking west

West Plaza, view looking east

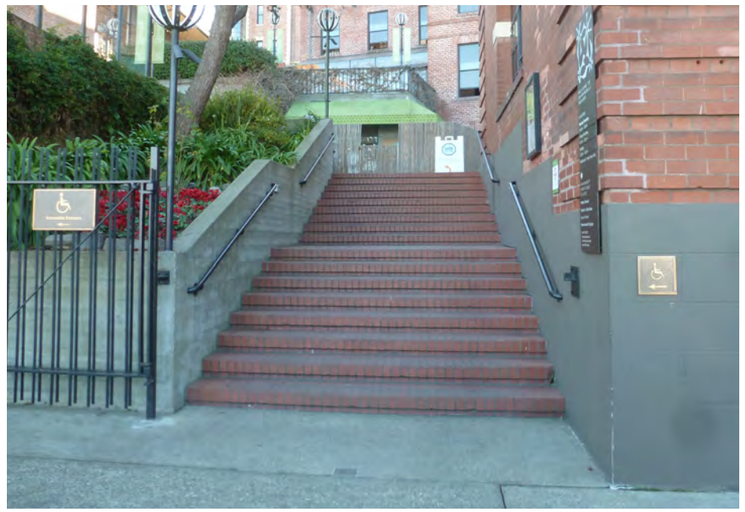
ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - BEACH STREET GATEWAY

OVERVIEW

The Beach Street Gateway was constructed as part of the Phase II work at Ghirardelli Square. It consists of a series of brick steps and landings with the typical concrete board formed walls found elsewhere in the Square.

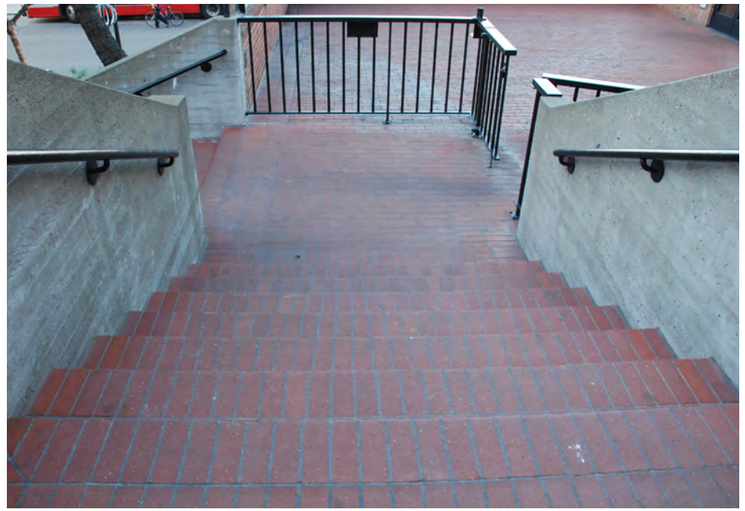
PRIMARY CONTRIBUTING FEATURES

- Boardform concrete walls that make up the walls of the planters
- Series of steps and landings that lead up to the West Plaza, including the planters
- Brick paving
- Original lollipop lights

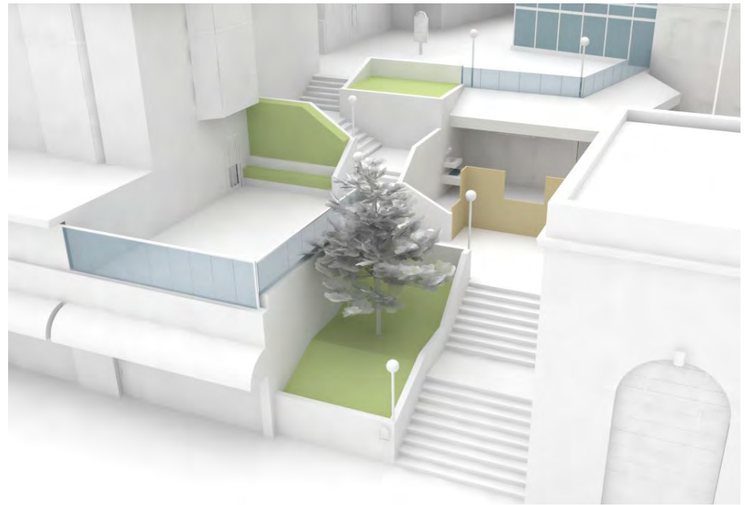


North Gateway from Beach Street

North Gateway, view from above - looking toward Bay



North Gateway from upper landing



Rendering of Existing North Gateway

ANALYSIS OF SIGNIFICANT FEATURES AND ALTERATIONS: LANDSCAPE - LOWER PLAZA

OVERVIEW

Currently a single, narrow stair leads from West Plaza to the Lower Plaza. The stair is tucked away, beginning at the southeast corner of the Woolen Mill and ending just shy of the lower level entrance to the Woolen Mill.

PRIMARY CONTRIBUTING FEATURES

- Brick paving
- Simple steel stair with concrete treads
- Cantilevered section of the West Plaza and the bridge connections to the Woolen Mill

1970s Photo of Lower Plaza from National Register Nomination (looking south)

View of Lower Plaza looking south

View of Lower Plaza from West Plaza

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APPENDIX A

GHIRARDELLI SQUARE RENOVATION
PRELIMINARY LIGHTING DESIGN REPORT

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Ghirardelli Square Renovation

Preliminary Lighting Design Report

HORTON LEES BROGDEN LIGHTING DESIGN

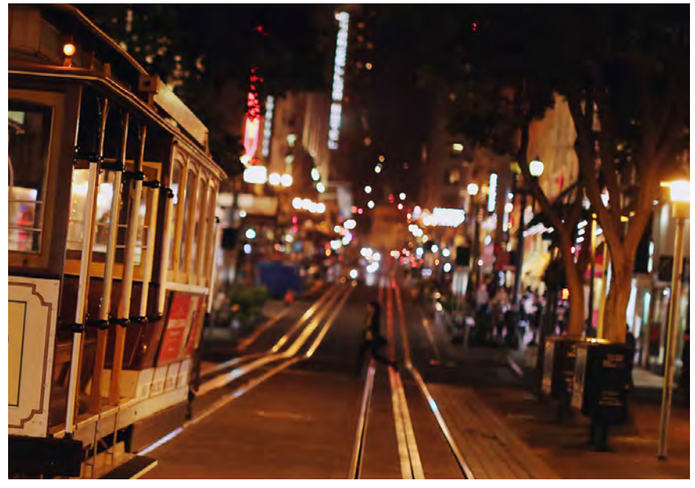
new york | san francisco | los angeles | boston

300 Brannan Street, Suite 212, San Francisco CA 94107 P: 415.348.8273 F: 415.348.8298

Lighting

Lighting Philosophy

Lighting can define a space by enhancing and creating mood. Designing spaces that engage people emotionally while heightening the visual aesthetic are important concepts to initiate a discussion about architectural lighting and build upon. An exploration of lighting technologies will underscore the creative concepts and provide a performance oriented environment. This holistic approach will set the Ghirardelli Square apart from other plazas and retail promenades while maintaining the historic significance of the site. Lighting design shall address an array of functional requirements and the quality of light within the space. The outdoor lighting will also take into consideration the environmental impact it has within the cityscape. By establishing a community based space and building upon Ghirardelli Square's character, lighting will help to reinforce the locations intended role as a tourist destination, San Francisco landmark, and a place for social interaction.



Lighting

Lighting Philosophy

Establish a Sense of Place

A variety of outdoor spaces and buildings will require a programmatic use of site lighting fixtures. Setting the scene for visual variations and brightness can successfully establish a sense of place. While each element will have its own lighting criteria, the overall lighting design shall utilize common effects, sources, and a cohesive palette of lighting equipment to strengthen Ghirardelli Square's signature environment.

Create Visual Interest and Define Nighttime Identity

Plazas and retail promenades are often described as "outdoor living spaces". These types of spaces accommodate both daytime and nighttime activities. It is important to present a strong nighttime identity that people can connect with and generate a sense of comfort and stimulation for patrons. This requires a hierarchy of illuminated elements and features, including building facades, exterior gathering spaces, signage, landmarks, and landscaping. The lighting plan shall utilize brightness, color, and cohesiveness to create identity and visual interest.

Maintained a Sense of Quality

The use of specification grade equipment and appropriately complex design solutions will convey the sense of a high-quality experience for visitors to the Ghirardelli site. To help ensure that the quality of the square endures, the lighting equipment selected shall be durable and maintainable. Maintenance will benefit from selecting fixtures of high quality and durability that serve the dual purpose of providing light for safety as well as identity. The lighting specifications shall endeavor to standardize lamp types; maximize easy accessibility to fixtures for repair and re-lamping; optimize lamp life, cost, and energy efficiency; and minimize opportunities for vandalism.

Balance Tradition and Adaptability

In addition to quality, the selected lighting equipment shall strive for a timeless aesthetic. The range of available lighting sources and equipment is expanding rapidly in response to new technologies. To the extent possible, the lighting specifications should anticipate emerging lighting technologies and endeavor to utilize equipment available today which may be compatible in scale and appearance with the technologies that may be offered in the future as the future phases are developed. Where possible the design and specification shall be adaptable to use existing technology as well as emerging technologies.

Assist Wayfinding

Visual cues such as signage to help direct pedestrians are less apparent at night than during the day. The lighting design shall assist pedestrian nighttime way finding by illuminating vertical surfaces against darker backgrounds to create a nighttime visual context. Choices should be made to illuminate vertical elements, such as signage, building facades, and landscaping elements.

Facilitate and Encourage Use

One way to encourage nighttime use of the site and its amenities is to provide lighting that will enhance the perception of safety and security. Safety and security within a public site can be enhanced by providing adequate horizontal illuminance at the pedestrian level for navigation of pathways, and adequate vertical luminance at surfaces such as buildings, people, and landscaping. A second means of encouraging nighttime use is to determine appropriate illumination levels for each programmed use. In addition, to providing proper illumination for each use, the lighting plans shall pay special attention to the transition areas between different uses to avoid creating dark areas that would impede nighttime circulation.

Promote Sustainability

As part of the implementation of sustainable design practices, the lighting shall strive to reduce light pollution and light trespass through the use of fully-shielded or shielded fixtures where feasible as well as limiting the use of uplighting to where the impact is most valuable to the entire site. In addition, sustainable practices would include the selection and investment in energy-efficient sources that are in line with local emergency regulations of Title 24 Non-Residential Energy Code and the California Green Building Code.

Lighting: Existing Conditions

Typical Plaza Lighting

Plazas are primarily illuminated by a combination of, sparkle globe post top fixtures, building mounted lights, and indirect street pole lights.

Typical Terrace Lighting

Terraces are illuminated by a combination of spill lighting from transition spaces, sparkle globe post top fixtures with adjustable accent lights mounted on the pole below the globe, building mounted decorative sconces and internally illuminated restaurant signage.

Typical Retail Promenade Lighting

Existing lighting consist of ceiling mounted area lights, recessed downlights in canopy soffit, building mounted monopoint accent lights, building mount decorative sconces, signage lights, and perimeter building mounted marque lights.

Typical Main Site Gateway Lighting

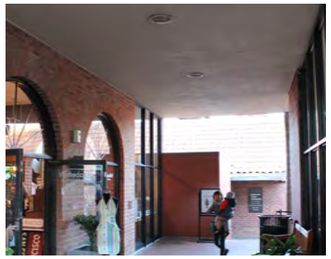
Main site gateway lighting typically consists of sparkle globe post top lights with adjustable accent lights mounted below the globe onto the pole. Along Larkin Street a large arch sign light marks the threshold from sidewalk to site.

Lighting: Existing Conditions




Typical Secondary Site Gateways

Existing sidewalk lighting consists of large post top diffuse globes. Canopied building entries consist of building mounted decorative sconces, marque lighting along the edge of the building, building mounted two headed sign lights, and illuminated arches.



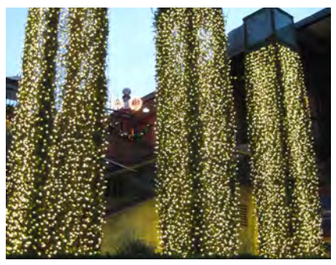
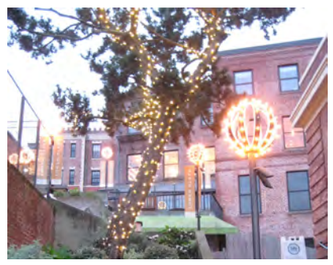
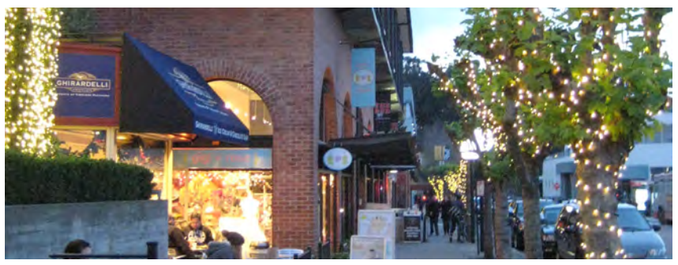

Typical Transition Space Lighting

Corridors consist of recessed round downlights, surface mount track with track heads, and building mounted cylinder sconces. Elevator lobbies consist of surface mount decorative sconces. Stairs typically consist of sparkle globe post top lights with adjustable accent lights mounted below the globe on the pole.



Typical Special Feature Lighting

Typical special feature lighting include the water fountain submersible uplights, Ghirardelli billboard sign light, and the holiday Christmas Tree.

Typical Landscape Lighting

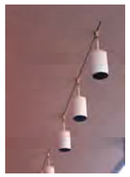
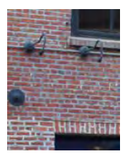
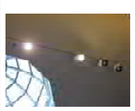
Existing landscape lighting includes string lights wrapped around trees and trellises.

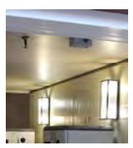
Existing Lighting Fixture Schedule

Item	Fixture Image	Location	Description	Proposed Lighting Strategy
A		Beach Street and North Point sidewalk, site entries	Pedestrian scale diffuse globe post top site entry markers. Appears to be CFL lamps. Lamp color temperature – cool white.	Refurbish or replace with like kind
B		Exterior site elevation Beach and Polk Street	Two-headed stem sign lights mounted to Power House building rooftop. Appears to be LED retrofit lamps. Lamp color temperature – cool white.	Remove
C		Throughout	Pedestrian scale “Sparkle” globe post top site fixture with individual incandescent lamps evenly spaced along globe spines. Lamp color temperature – warm white.	Refurbish and upgrade to LED’s
D		Throughout	BK Lighting “Deltastar” halogen MR16 lamp adjustable accent light mounted under “sparkle” globe on pole. Black/ brown finish, rotational knuckle mounting system, and 45˚ cap. Lamp color temperature – warm white	Upgrade to new LED adjustable accent lights
E		Exterior site elevation North Point Street	Approximately 24” or 30” tall decorative wall mounted sconce with diffuse glass and bronze metal finish. Appears to be CFL lamps. Lamp color temperature – warm white	Replace
F		Exterior elevation site North Point Street	Surface mounted “jelly jar” sconce. Diffuse glass and black metal finish. Appears to be CFL lamping. Lamp color temperature – warm white	Replace
G		Lower Plaza Terrace Retail Shops and Clock building	Building mounted (along edges of roof line and corners) marquee lights with retrofit LED lamps in clear glass globes. Lamp color temperature – warm white	Maintain/ repair

Item	Fixture Image	Location	Description	Proposed Lighting Strategy
H		Exterior site elevation Larking Street Clock building	Pedestrian scale surface mounted diffuse globe sconce with black metal finish. Appears to be CFL lamping. Lamp color temperature – cool white	Replace or replace with like kind
I		McCormick & Kuletos Restaurant soffit canopy	Appears to be an Elliptipar Lighting semi-recessed adjustable sign light. Appears to be metal halide lamping. Lamp color temperature – warm white	Upgrade to LED
J		Throughout	Approximately 10” or 12” aperture, round recessed downlight with silver trim and diffuse specular lens. Appears to be CFL lamping. Lamp color temperature varies – cool white and warm white.	Retrofit or replace/ supplement with adjustable accent lighting
K		Power House building entry	Pedestrian scale surface mount “acorn” shape sconce on armature with diffuse glass and patina or oxidized copper metal finish. Lamping unknown; fixture was never turned on.	Replace
L		Rose Court	Approximately 4-4.5” aperture, round ingrade uplights with diffuse lens. Lamping unknown; fixture was never turned on.	Remove when court is renovated
M		Throughout	Approximately 18”-20” tall surface mount pyramidal shape sconce. Bronze metal finish faceplate. CFL lamp behind faceplate. Lamp color temperature – warm white	Remain
N		Promenade Level, Wurster building	Approximately 12” or 18” tall, 5” or 8” round aperture surface mount cylindrical sconce. Appears to be CFL lamping, however most fixtures on site were not lamped. Black finish with silver interior reflector. Lamp color temperature – cool white	Replace with LED
O	“Mushroom” shape pathway light	Throughout	Pathway light throughout softscape and planters. Lamping unknown – fixture was never turned on.	Remove

Existing Lighting Fixture Schedule

Item	Fixture Image	Location	Description	Proposed Lighting Strategy
P		Transition Space Level 2; Public Restrooms Walkway	Approximately 12” tall, 5” or 8” round aperture ceiling mounted track with track-mounted cylinders. Track heads have LED retrofit lamps. Cylinder track heads have fixed, non-adjustable track mount stems. White finish with black interior reflector. (3) track heads per linear track. Lamp color temperature – cool white	Replace with LED downlight
Q		Transition Space Level 2	Approximately 2.5” or 3” round aperture recessed accent slot with halogen MR16 lamp. Finish is painted to ceiling color. Lamp color temperature – warm white	Confirm
R		Lower Plaza Terrace Retail Shops	Approximately 12”x12” square surface mount area light with diffuse specular lens. Appears to be metal halide lamping. Lamp color temperature – warm white	Replace with LED downlight
S		West Plaza	Streetscape scale, indirect distribution post top street light. Appears to be CFL lamping. Lamp color temperature – cool white.	Keep (4) do not add more
T		Throughout (predominately at stairs)	Approximately 18” or 20” tall surface mount semi-cylindrical decorative sconce. Diffuse glass with bronze metal trim faceplate. Open on top and bottom. Appears to be CFL lamps. Lamp color temperature varies – cool white and warm white	Replace or remain
U		Woolen Mill building	Appears to be BK Lighting sign lights mounted on long “goose neck” armature and canopy. Appears to be halogen MR16 lamping. Lamp color temperature varies – cool white and warm white.	Remove
V		Breezeway that connects Fountain Plaza to West Plaza	Approximately 6” tall, 4” round aperture ceiling mount track with track-mounted cylinders. Yoke track-mounting bracket. There are (4) track heads on one run length of track and (2) track heads on another run length of track. White finish. Appears to be CFL lamping. Lamp color temperature – warm white	Replace with LED downlight

Item	Fixture Image	Location	Description	Proposed Lighting Strategy
W		Bandstand Level 2	Approximately 3” tall 1.5” round aperture adjustable column mount spot light. Yoke canopy mounting bracket. Black finish. Appears to be halogen MR16 lamping. Lamp color temperature – warm white	Remain
X		Bandstand Level 2	Approximately 12” or 15” by 4” or 6” surface mount (along interior perimeter edge of Bandstand) area flood light with short knuckle armature and reflector lens. Black finish. Appears to be metal halide. Lamp color temperature – warm white	Remain
Y		West Plaza, Chocolate building	Approximately 4” or 5” tall, 2” or 3” round aperture with snoot and short stem arm adjustable monopoint surface mounted to ceiling of canopy soffit. White finish. Appears to be halogen MR16 lamps. Lamp color temperature – warm white	Confirm
Z		Apartment House building	Pedestrian scale building mounted clear glass globe sconce. Globes mounted to black metal armature. Appears to be CFL lamping. Color temperature unknown; fixture was never turned on.	Relamp or replace with like kind
AB		Fountain Plaza	Appears to be a Hydrel Lighting, approximately 7” or 9” round aperture underwater submersible uplight with flood reflector pattern with yoke mount base. Appears to be an incandescent lamp. Lamp color temperature – cool white	Replace when fountain is restored using original design
AC		Promenade Level; Elevator Lobby	Approximately 12” or 18” tall surface mount decorative rectangular sconce with diffuse glass and bronze metal trim faceplate. Appears to be (2) CFL lamps mounted both up and down. Lamp color temperature – cool white	Replace
AD		McCormick & Kuletos Restaurant Entry	Approximately 15” or 17” tall surface mount “pill” shape brick pattern decorative sconce with brick patter diffuse glass faceplate. Appears to be incandescent. Lamp color temperature – warm white	Remain
AE		McCormick & Kuletos Restaurant Canopy	Approximately 12” or 15” tall, 5” or 8” round aperture ceiling mount cylindrical downlight. Black finish with silver interior reflector. Medium screw base incandescent PAR lamps. Lamp color temperature – warm white	Replace with LED downlight

Lighting Design General Technical Criteria

General

Standard practice performance criteria are defined for each anticipated use and for design considerations such as source color, light levels, and uniformity. The major areas and elements of the site are organized into the following categories: Plazas; Terraces (Outdoor Dining); Retail Promenades; Main Site Gateways; Secondary Site Gateways; Transition Spaces; Special Site Features; Landscape Features.

Plazas

Outdoor shopping centers and plazas are social gathering places where typically areas within the site are strictly dedicated to pedestrians and the use of automobiles is prohibited. The potential for moderate to high nighttime pedestrian activity classifies this area as an outdoor plaza district. Lighting can play a key role in establishing the mood and atmosphere of these large open spaces throughout the square. Generally the lighting for plazas have lower illumination zones in the center, typically between opposing store fronts, which have higher illumination. This approach enables shoppers to comfortably adapt as they move between stores. Specific attention should be paid towards locating fixtures at special features such as public art or fountains.

Retail Centers Outdoors - Plazas and Town Squares:

Average Illuminance: 0.4 – 0.6 footcandles

Uniformity Ratios shall not exceed 5 to 1 (average:minimum)

3000 Kelvin Lamping

Terraces (Outdoor Dining)

Terraces and outdoor dining areas are intimate gathering areas within a small designated area, typically partitioned off from the plazas and promenades. If adjacent food service spaces are open after dark, lighting plays a key role in establishing the mood. A balanced hierarchy of brightness will help facilitate the sense of a pleasantly active and well illuminated space. Generally the lighting in terraces have similar vertical and horizontal light levels for circulation and dining.

Social Areas - Decks, Gazebos, Porches, Terraces:

Average Illuminance: 0.6 footcandles

Hospitality Outdoors - Restaurant Dining:

Average Illuminance: 5 footcandles

3000 Kelvin Lamping

Retail Promenades

Outdoor retail promenades are open air malls with walkways connecting shops, restaurants, and plazas for pedestrian shoppers. They can vary from a cluster of small shops in a single building to a stand alone retail store. Storefront windows and signage should be the primary focus of attention. By introducing decorative lighting, there is a second layer of visual interest for creating an inviting store front. Generally there should be a transition from the bright light levels of the retail store to the immediate adjacent pavement.

Retail Centers - Outdoor Promenade:

Average Illuminance: 0.4 – 0.6 footcandles

3000 Kelvin Lamping

Site Gateways

Site Gateways are large, wide pathways connecting off-site sidewalks to the main attractions within the site. This specific type of site entry usually consists of a point of interest or marker that indicates the type of space one is entering. It is also can be a special meeting spot for those in larger groups. Lighting should help assist with way finding by providing visual cues of major circulation, while also creating a sense of identity. Slightly higher light levels than the surrounding sidewalks and roadways will help to promote the function of the site. Lighting should be carefully implemented to provide a comfortable transitions from the various light levels surrounding the gateway. Specific lighting techniques such as illuminated graphics, facade lighting, and unique light fixtures would serve as nighttime beacons to enhance the landscape and architecture.

Outdoor Retail Centers - Stairs, Ramps, Steps:

Average Illuminance: 0.6 – 0.8 footcandles

Retail Centers Outdoors - Plazas and Town Squares:

Average Illuminance: 0.4 – 0.6 footcandles

Uniformity Ratios shall not exceed 5 to 1 (average:minimum)

3000 Kelvin Lamping

Secondary Site Gateways

Building entries are divided in two categories: canopied and non-canopied. These are secondary public entries into the site and would be an alternative entry for pedestrians who were walking along the sidewalk. The scale of these entries are smaller and sometimes narrower than site gateways. Typically these entries are less busy and less of a point of interest. Building entries with no canopies should be illuminated at the designated threshold. A portion of the path, typically the sidewalk curb, should be lit to a lesser degree in order to create an efficient and comfortable nighttime environment for both automobiles and pedestrians, while also providing light for vision requirements for movement. Canopied entries are expected to have higher light levels, but may need a control system that is capable of addressing various settings for different stages of nighttime activity.

Retail Centers Outdoors - Plazas and Town Squares:

Average Illuminance: 0.6 footcandles

Uniformity Ratios shall not exceed 5 to 1 (average:minimum)

Building Entries - Outdoor Canopied Entries/ Exits:

Average Illuminance: 3 footcandles

3000 Kelvin Lamping

Transition Spaces (Stairs, Ramps, and Steps, Elevator Lobbies, Corridors)

Stairs vary from wide tiered site entries with high foot traffic to intermediate ramps and steps connecting plazas and promenades. Elevator lobbies are in small covered areas adjacent to plazas. Corridors are long, sometimes non-covered, walkways that run along retail stores and public services. Generally it is important to provide uniform illumination for stairs, ramps, and corridors in addition to providing sufficient vertical illumination for facial recognition. When lighting elevator lobbies accenting should be used to help visually direct pedestrians to important activity areas. It is also important to create high light levels at elevator threshold and parking fee transaction areas. Lighting stairs, ramps, corridors, and elevator lobbies should facilitate way finding and create destinations at active gathering spaces and intersections. Security should also be an important consideration when designing the lighting for each of these spaces. Providing adequate vertical illuminance, approximately 6 feet above the walkway, helps pedestrians identify objects and people from a distance.

Outdoor Retail Centers - Stairs, Ramps, Steps:

Average Illuminance: 0.6-0.8 footcandles

Uniformity Ratios shall not exceed 5 to 1 (average:minimum)

Retail Lobbies - Circulation, Elevator Lobbies distant from entry:

Average Illuminance: 5-10 footcandles

Public Corridor - Transition Space:

Average Illuminance: 1-5 footcandles

3000 Kelvin Lamping

Special Site Features

Special site features vary from a seasonal holiday display to a more permanent site specific public art or sculpture and water feature. The water feature plays a significant role in the overall atmosphere of the site because of its historic relevance. Typically when lighting water features, it should be determined which element of the water feature needs to be illuminated; the water or the structure.

Softscape (natural water bodies):

Average Horizontal Illuminance: 5 footcandles

Average Vertical Illuminance: 3 footcandles

Fountains, waterfalls:

Average Horizontal Illuminance: 3 footcandles

Average Vertical Illuminance: 5 footcandles

Decorative Pools:

Average Horizontal Illuminance: 5 footcandles

Average Vertical Illuminance: 3 footcandles

3000 Kelvin Lamping

Landscape Features

Throughout the site there are various species of plants and trees that fill voids between plazas, terraces, and promenades. The planting also help to create a lush, oasis in the midst of all the building elements. Planting varies from potted plants to designated planter boxes and tree squares. Lighting for planting will primarily be used as accent lighting to enhance the quality of a space or to assist with way finding. There are no formally defined performance criteria for lighting planting. The illumination of trees, plants, and other landscape elements is an important function to the site lighting system because it creates visual interest and visual context. This promotes a sense of safety and security in addition to facilitating way finding.

3000 Kelvin Lamping

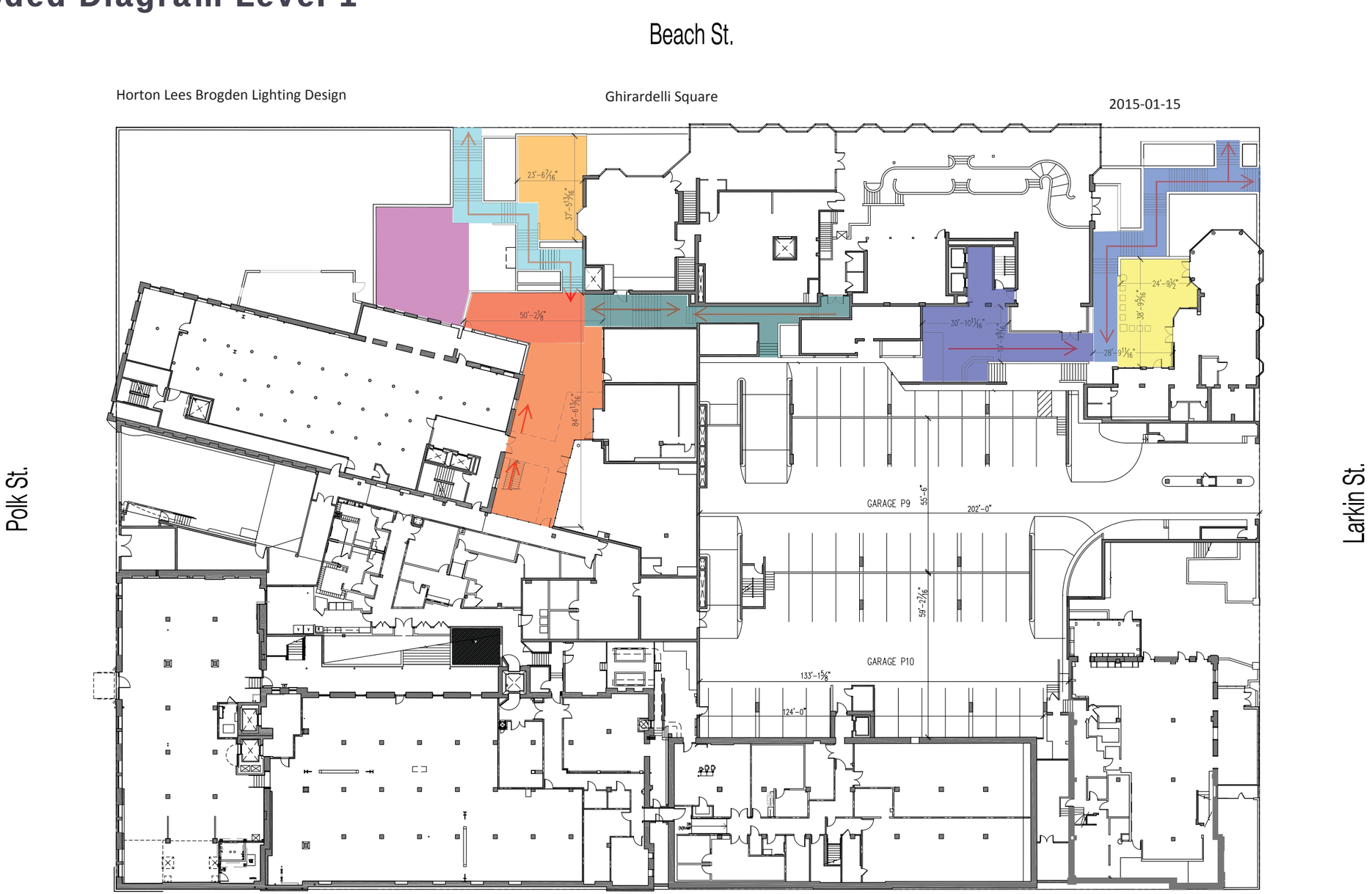
See matrix and color coded plan for a detailed area by area description of existing conditions and lighting criteria.

Color Coded Diagram Level 1

Horton Lees Brogden Lighting Design

Ghirardelli Square

2015-01-15



Level 1 - Color Coded Site Lighting Diagram

Notes:
1. Red arrows and lines indicate assumed paths of egress to public right of way.
2. Refer to color coded lighting matrix for information on lighting criteria and existing conditions

Detailed Lighting Criteria Matrix

ZONE #	COLOR	ZONE NAME	AREA DESCRIPTION	EXISTING LIGHT LEVELS (Observed by HLB on 12/30/14 Site Visit)	IES AREA CATEGORY (IESNA Lighting Handook 10th Edition)	IES TARGET LIGHT LEVEL CRITERIA (IESNA Lighting Handook 10th Edition)
		Site Entry Stairs Level 1	Multi-landing stairs from Beach Street and entry to Level 1. Stairs lead to daycare, Rose Court, and an open terrace with the employee entrance/exit for McCormick & Kuleto's restaurant. At the sidewalk entry there are (2) large diffuse post-top globes and at each landing there are post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe.	0.4–3 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Site Entry Stairs Level 1	Multi-landing stairs from Beach Street and Larkin Street entry to Level 1. The entry/exit stairs run between the Carrousel and Wurster buildings. Stairs also lead to separate terraces for the McCormick & Kuleto's restaurant and Lori's Diner restaurant. At each landing there are historic post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe. On Beach Street sidewalk there are (3) square columns wrapped in string lights. On McCormick & Kuleto's restaurant terrace there are (3) semi-recessed wall washers, (3) recessed downlights, and (2) surface mounted cylinders in canopy.	0.6–4 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Transition Space Level 1	Partially covered walkway to Wurster building, public restrooms, and retail stores. There are (3) recessed downlights in the soffit and (2) large cylinder sconces along the wall to the entrance of the Wurster building.	.06–3 footcandle average	Public Corridor-Transition Space	1–5 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Elevator Lobby Transition Space Level 1	Partially covered walkway on the Promenade level to public restrooms and parking garage elevators. In elevator lobby there are (2) wall mounted sconces and along the outside wall of the restrooms (1) cylinder sconce.	0.15–0.2 footcandle average	Retail Lobbies-Circulation, Elevator Lobbies-Distant from Entry	5–10 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Beach Street Terrace Level 1	Open terrace, with glass perimeter screen, next to McCormick & Kuleto's. Restaurant employee entrance and no outdoor dining or patio seating in terrace.	0.3 footcandle average	Social Areas-Decks, Gazebos, Porches, Terraces	0.6 footcandle average

Note: Refer to color coded lighting diagrams for plan locations of above areas.
*Footcandles were measured in the exterior site, but assumed most of the light was contributed by the retail store interiors.

Detailed Lighting Criteria Matrix

ZONE #	COLOR	ZONE NAME	AREA DESCRIPTION	EXISTING LIGHT LEVELS (Observed by HLB on 12/30/14 Site Visit)	IES AREA CATEGORY (IESNA Lighting Handook 10th Edition)	IES TARGET LIGHT LEVEL CRITERIA (IESNA Lighting Handook 10th Edition)
		Rose Court Terrace Level 1	Open terrace next to the Power House building. Terrace shares space with the daycare. No outdoor dining or patio seating. On Power House building there are (2) "acorn" sconces, (2) "jelly-jar" sconces, and ingrade uplights along the handrail ramp to the building entrance.	0.1 footcandle average	Social Areas-Decks, Gazebos, Porches, Terraces	0.6 footcandle average
		Lori's Diner Terrace Level 1	Open terrace, with glass perimeter screen alongside of Lori's Diner. There is outdoor seating for customers. The only lighting on the terrace is (1) post-top sparkle globe with a BK Deltastar adjustable accent light mounted to the pole underneath the globe at top landing and neon signage for Lori's Diner.	0.1 footcandle average	Centers Outdoors-Plazas and Town Squares (Hospitality Outdoors-Restaurant Dining)	0.4-0.6 footcandle average (5 footcandle average)
		Retail Terrace Level 1	Open terrace at top of Beach Street stairs, between the Woolen Mill building and Wurster building. There is outdoor patio seating, in addition to (2) post-top sparkle globes.	0.4 footcandle average	Social Areas-Decks, Gazebos, Porches, Terraces	0.6 footcandle average
		Lower Plaza Shopping Promenade Level 1	Partially covered courtyard with retail stores, employee entries/ exits, and stairs that lead to the West Plaza level. There are (2) surface mounted area lights in canopy, globe marque lights along perimeter edges of retail stores, and (2) sconces at Woolen building entrance.	0.5–4 footcandle average	Retail-Centers Outdoors-Promenade	0.6–0.8 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*

Note: Refer to color coded lighting diagrams for plan locations of above areas.
*Footcandles were measured in the exterior site, but assumed most of the light was contributed by the retail store interiors.

Color Coded Diagram Level 2

Horton Lees Brogden Lighting Design

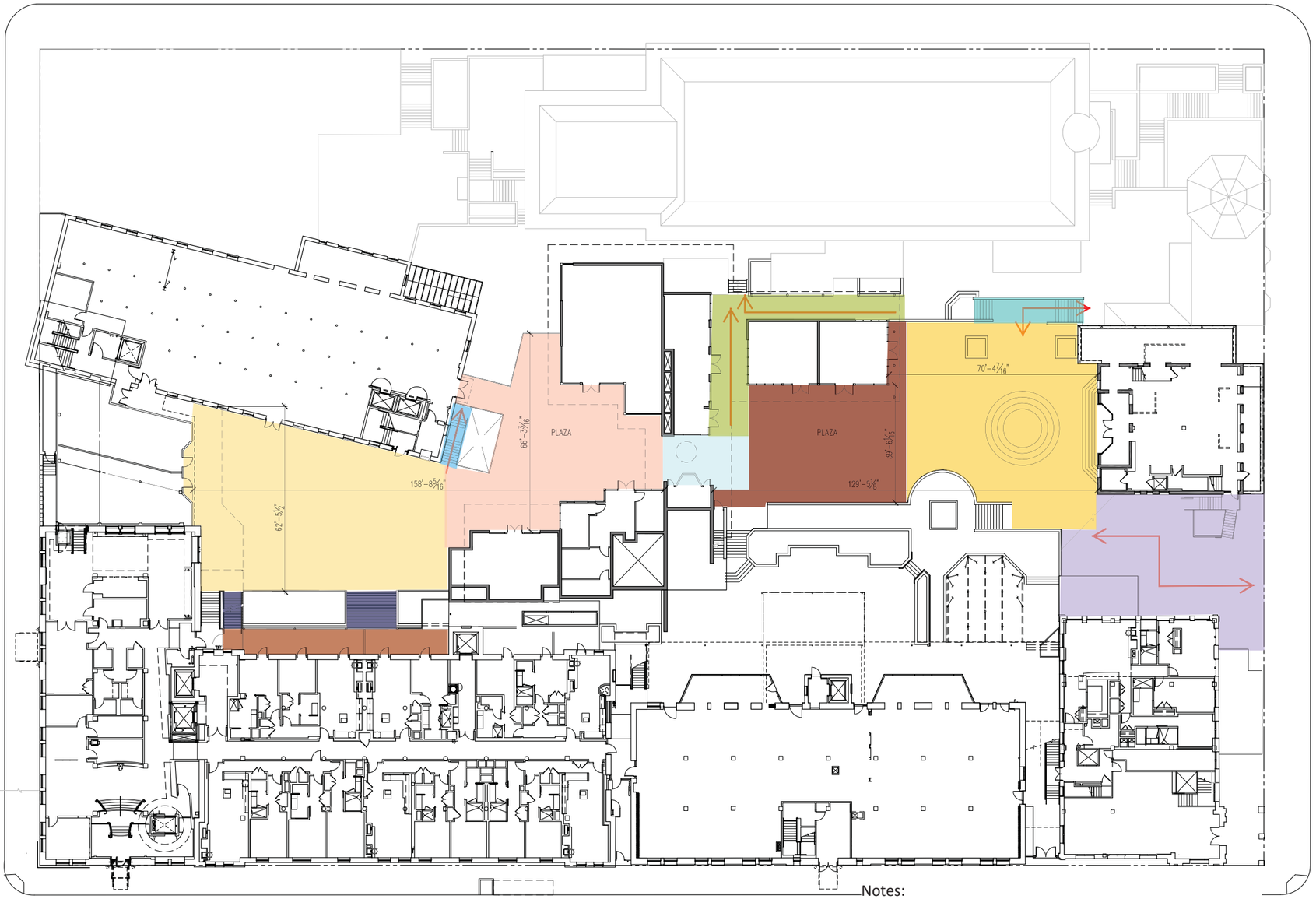
Ghirardelli Square

2015-01-15

Beach St.

Polk St.

Larkin St.



North Point St.

Level 2 - Color Coded Site Lighting Diagram

Notes:
1. Red arrows and lines indicate assumed paths of egress to public right of way.
2. Refer to color coded lighting matrix for information on lighting criteria and existing conditions

Detailed Lighting Criteria Matrix

ZONE #	COLOR	ZONE NAME	AREA DESCRIPTION	EXISTING LIGHT LEVELS (Observed by HLB on 12/30/14 Site Visit)	IES AREA CATEGORY (IESNA Lighting Handook 10th Edition)	IES TARGET LIGHT LEVEL CRITERIA (IESNA Lighting Handook 10th Edition)
		Transition Space Level 2	Partially covered "arcade" which runs along Promenade level and between Gateway and Fountain Plaza Shops. This walkway leads to retail stores, Wurster building, and public restrooms. There are (3) sets of surface mounted track fixtures in soffit adjacent to public restrooms, (2) recessed downlights, (1) recessed round accent slot, and (2) sconces at retail entry.	3–20 footcandle average*	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle avg *(Areas considered path of egress will require 1 footcandle minimun)*
		Breezeway Level 2	Partially covered breezeway that connects the Fountain Plaza to the West Plaza. There is a glass oculus skylight in the double height canopy that connects Gateway Shops and Gallery building. Within the oculus canopy there are (2) rows of surface mounted track, and string lights wrapped around arch on side of West Plaza.	0.6–7 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average
		West Plaza Stairs Level 1 & 2	Open stairs lead to/from West Plaza and Lower Plaza, and are located between the Woolen building, Gateway shops, and Gallery building. Stairs travel under the Woolen Building pedestrian bridge. No lighting along flight of stairs.	0.3 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Cocoa Building Stairs Level 2	Stairs connect the West Plaza to the Cocoa building patio level. Stairs also lead to a "guest only" hotel entry on Level 2 balcony. Planters block one set of stairs. There are building mounted sconces at each landing of the outdoor stairwell leading to the hotel.	0.5–2.5 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average
		Fountain Plaza Stairs Level 2	Non-covered stairs connect the Fountain Plaza to the Promenade level. These stairs lead pedestrians to/from the Fountain Plaza, public restrooms, McCormick & Kuleto's restaurant, Lori's Diner restaurant, and Beach, Larkin Street entry stairs. There are (2) post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe.	0.15–0.5 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Cocoa Building Patio Level 2	Small, covered, narrow patio that runs along the Cocoa Building and is underneath the hotel deck. There are sconces at each bay along the Cocoa Building and indirect street lights in planters next to stairs.	0.5–0.8 footcandle average	Social Areas-Decks, Gazebos, Porches, Terraces	0.6 footcandle average

Note: Refer to color coded lighting diagrams for plan locations of above areas.
*Footcandles were measured in the exterior site, but assumed most of the light was contributed by the retail store interiors.

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Detailed Lighting Criteria Matrix

ZONE #	COLOR	ZONE NAME	AREA DESCRIPTION	EXISTING LIGHT LEVELS (Observed by HLB on 12/30/14 Site Visit)	IES AREA CATEGORY (IESNA Lighting Handook 10th Edition)	IES TARGET LIGHT LEVEL CRITERIA (IESNA Lighting Handook 10th Edition)
		West Plaza Ghirardelli Shopping Promenade Level 2	Large open plaza between Ghirardelli retail store (in the Woolen building), Chocolate building, and Cocoa building. Small retail storefronts run along the Chocolate building. During the holiday season there is a large Christmas tree display in the center of plaza. Outdoor seating is provided by the Ghirardelli retail store. On the storefront canopies are surface mount adjustable monopoints. Along the Ghirardelli retail store are sign lights at the entry/exit and building mounted sconces at each bay.	0.4–6 footcandle average*	Retail-Centers Outdoors-Shopping Promenade	0.6–0.8 footcandle average
		Fountain Plaza Shopping Promenade Level 2	Open shopping promenade between Breezeway, Fountain Plaza, and Terrace level. Outdoor seating outside of wine bar and cupcake store. The primary lighting is recessed downlights at Breezeway canopy and Fountain Plaza Shop building canopy.	0.5–2.5 footcandle average	Retail-Centers Outdoors-Shopping Promenade	0.6–0.8 footcandle average
		Fountain Plaza Level 2	Open plaza area between Terrace level, Apartment House building, and Promenade level. In the center of the plaza is a statue water fountain surrounded by benches. The primary lighting in the plaza are post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe along the stairs. There are (3) recessed downlights in the soffit of the Apartment House building, (3) underwater submersible uplights, and string lights wrapped around small trees at the north side of the plaza.	0.2–0.5 footcandle average	Retail-Centers Outdoor-Plazas & Town Squares	0.6 footcandle average
		Gateway/ Gallery Shopping Promenade Level 2	Open plaza area between the Woolen Mill building, Gateway Shops, and Gallery building with a pedestrian bridge leading to Ghirardelli store entrance. Outside of store entrance are pole and rope stanchions for crowd control, (2) sconces, and (2) post-top sparkle globes at either end of the deck. Plaza also leads to West Plaza stairs down to Level 1. At each retail canopy are recessed downlights and store signage lights.	1–8 footcandle average*	Retail-Centers Outdoors-Shopping Promenade	0.6–0.8 footcandle average

Note: Refer to color coded lighting diagrams for plan locations of above areas.
*Footcandles were measured in the exterior site, but assumed most of the light was contributed by the retail store interiors.

Color Coded Diagram Level 3

Horton Lees Brogden Lighting Design

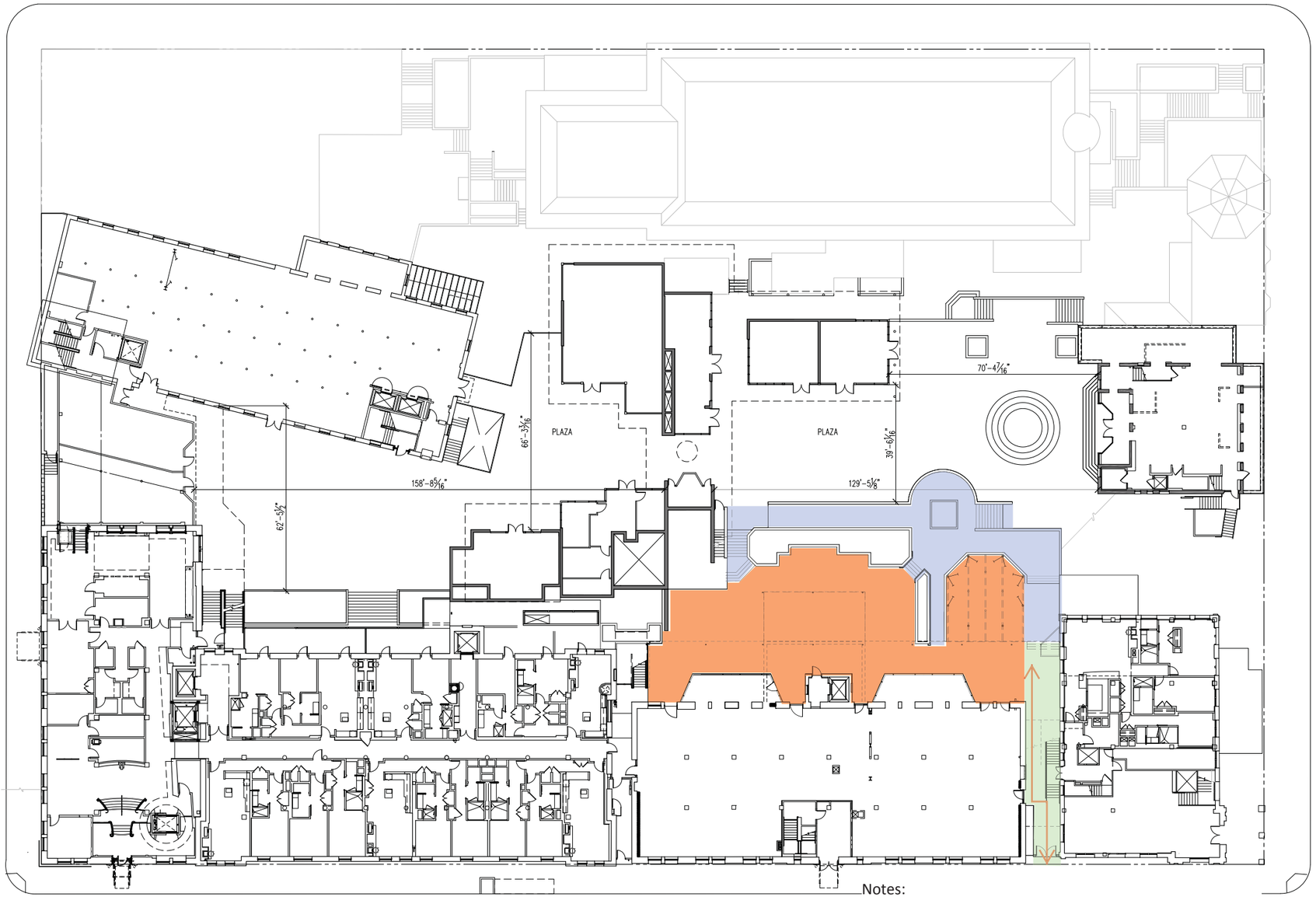
Ghirardelli Square

2015-01-15

Beach St.

Polk St.

Larkin St.



Level 3 - Color Coded Site Lighting Diagram

North Point St.

Notes:
1. Red arrows and lines indicate assumed paths of egress to public right of way.
2. Refer to color coded lighting matrix for information on lighting criteria and existing conditions

Detailed Lighting Criteria Matrix

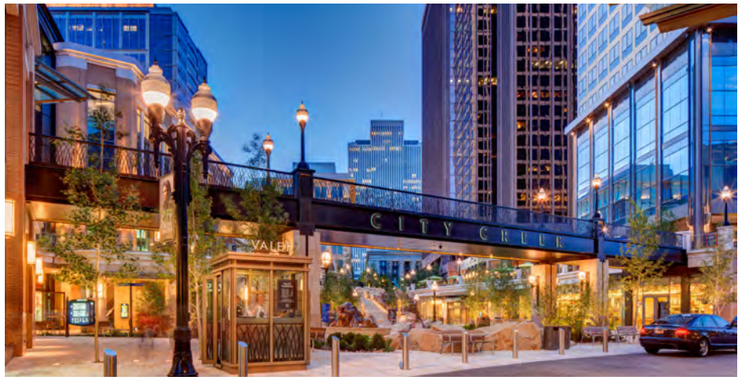
ZONE #	COLOR	ZONE NAME	AREA DESCRIPTION	EXISTING LIGHT LEVELS (Observed by HLB on 12/30/14 Site Visit)	IES AREA CATEGORY (IESNA Lighting Handook 10th Edition)	IES TARGET LIGHT LEVEL CRITERIA (IESNA Lighting Handook 10th Edition)
		Fountain Plaza and Terrace Level Stairs Level 3	Non-covered stairs and ramps connect the Fountain Plaza and Terrace level. Planter boxes divide the area. There are post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe, and "mushroom" shape pathway lights in planter boxes.	0.1–0.6 footcandle average	Outdoor Retail Centers-Stairs, Ramps, Steps	0.6–0.8 footcandle average
		North Point Street Site Entry Level 3	Covered site entrance and walkway from North Point Street that runs between Mustard building and Clock building. Open stairwell leads to Level 2 "guest only" hotel entrance. There is also a retail entrance in the Clock building with a small set of stairs at the north end of the walkway. There are (2) sconces along the Mustard building, scones at each landing of the open stairwell and a sconce at retail entry stairs.	0.1–1.8 footcandle average	Building Entries Outdoor-Canopied Entries/Exits	3 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Larkin Street Site Entry Level 3	Open courtyard that connects the Larkin Street entry to the Fountain Plaza and runs between the Apartment House building and the Clock building. A large Ghirardelli sparkle sign light arch greets pedestrians from Larkin Street. Marque lighting runs along the Clock building perimeter edge and there is (1) clear globe sconce at the side entrance/exit of the Apartment House building.	0.15 footcandle average	Retail-Centers Outdoor-Plazas & Town Squares	0.6 footcandle average *(Areas considered path of egress will require 1 footcandle minimun)*
		Mustard Building Terrace/ Deck/ Porch Level 3	Large terrace that runs along the Mustard building and Cocoa building. Hotel deck and covered bandstand above on level 2. Along inside roof of bandstand are surface mounted flood lights, and at top of each column are small adjustable accent lights. There are construction lights mounted to underside of the deck and post-top sparkle globes with BK Deltastar adjustable accent lights mounted to the pole underneath the globe at deck corners, and each landing/planter box.	0.1 footcandle average	Social Areas-Decks, Gazebos, Porches, Terraces	0.6 footcandle average

Note: Refer to color coded lighting diagrams for plan locations of above areas.
*Footcandles were measured in the exterior site, but assumed most of the light was contributed by the retail store interiors.

Project Goals

Code Compliance

- Upgrade lighting fixtures and approaches so that appropriate recommended light levels are maintained across the site



Create Simple Palette For Future Work

- Lighting will be designed in such that it creates a cohesive framework for incorporating future tenant provided lighting in a consistent way. A limited family of decorative and architectural fixtures has been selected for use during site upgrade project and shall contribute to the sense of cohesiveness across the project.

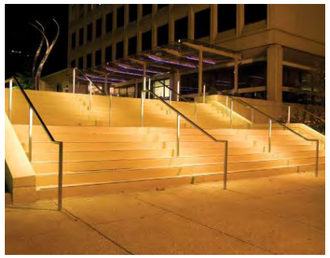
Create Outdoor Room

- Lighting will support an increased sense of community and a place of gathering within the plazas and terraces by activating the architecture and creating a room-like feeling in these exterior spaces.

Flexibility - Events & Vendors

- Flexible lighting approaches are to be employed in order to accommodate to varying needs of vendors and special events.

Proposed Lighting Strategies

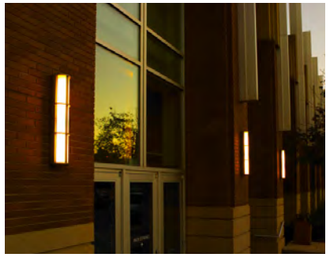


Illuminated Handrail

Incorporating an illuminated hand rail in the site lighting design will help to create a soft, localized light along the pathways and stairs, while also providing illumination for egress paths.

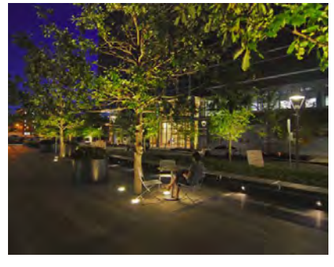
Replace Existing Soffit Lights

In all ceiling canopy soffits there will be a one for one replacement of recessed and surface mounted downlights, as needed. Replacing the soffit lights will provide more general lighting to the plazas and emphasize the retail storefronts. By specifying an adjustable downlight, there is opportunity to focus the light where desired.



Upgrade Decorative Fixtures

Upgrade decorative fixtures for a more cohesive palette.



Tree Uplighting

Including softscape lighting at trees will create a festive environment and while highlighting the natural features of the various tree species.

Proposed Lighting Strategies

Upgrade “Sparkle Globes”

Each individual incandescent bulb along the spine of the historic “sparkle globes” shall be replaced with new light bulbs. Fixtures should be cleaned and refurbished where needed.

Facade Lighting

Incorporating facade lighting into the overall site design will enhance the historic charm of the various Ghirardelli Square buildings.

Relamp All Fixtures

Any exisitng fixture should be relamped with consistant warm white lamps to match all new fixtures. Keeping the same color temperture lamp will create a cohesive and aestheticlly pleasing nighttime enviroment.

Upgrade Accent Lights On Poles

Where adjustable accent lights on the “sparkle globes” currently exist, there will be an upgrade to LED accent lights. This will make for a more cohesive look with the proposed refurbished “sparkle globes” post top fixtures.

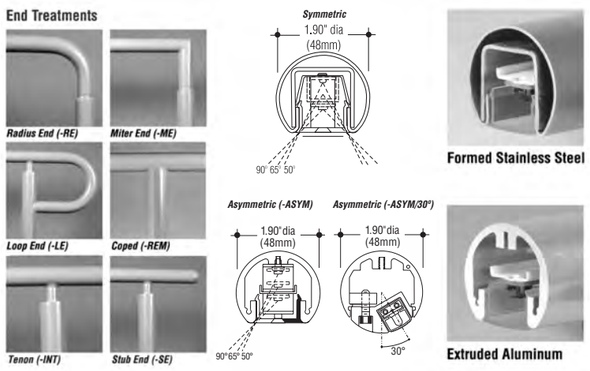
Illuminated Handrail Cutsheets

Option 1

C O L E L I G H T I N G *SUBMITTAL*

JOB NAME _____ ***TYPE*** _____

CATALOG NUMBER _____ **Lightrail**



LR5 LED

Construction

• Available in extruded aluminum and formed stainless steel with welded and blended joints for a seamless appearance • A high impact extruded acrylic lens snaps into place and is further retained by fasteners at each end • The flat lens design minimizes visible brightness at sides and is available in clear or frosted • Each rail is tailored to fit existing stairs, ramps, and walkways • Aluminum rails supplied with a powder coat or anodized finish • Stainless steel rails supplied with a #4 satin finish, passivated

Electrical

• LED modules are 24 VDC constant voltage at 4.5 watts and 171 lumens per foot. Available in 3000˚K or 4100˚K color temperatures. Beam spreads in 50˚, 65˚, and 90˚ patterns • LEDs are configured to allow uninterrupted illumination • Electrical feed locations are pre determined at time of submittal • LED drivers may be integral in the posts or railing; and may be remote if required • Dimmable drivers are available upon request

Catalog Number	Stainless Steel (-SS)	Aluminum (-AL)
Post mounted, integral driver	☐ **LR5P-LED-SS-INT**	☐ **LR5P-LED-AL-INT**
Post mounted, remote driver	☐ **LR5P-LED-SS-REM**	☐ **LR5P-LED-AL-REM**
Wall mounted, integral driver	☐ **LR5W-LED-SS-INT**	☐ **LR5W-LED-AL-INT**
Wall mounted, remote driver	☐ **LR5W-LED-SS-REM**	☐ **LR5W-LED-AL-REM**

Photometric data available for Steplites can be downloaded at: www.colelighting.com/downloads/1

Options

Baseplate: 5" x 5" x 3/8" (Aluminum)
5" x 5" x 3/16" (Stainless Steel)
baseplate with four 5/8" holes. Add suffix ☐ **-BP**.
Frosted Lens: Add suffix ☐ **-FL**.
Ends: Add suffix. Stub ☐ **-SE**. Miter ☐ **-ME**.
Loop ☐ **-LE**. Radius ☐ **-RE**.
Escutcheon Plates: Add suffix ☐ **-ES**.
Asymmetric distribution:
One side blocked. Add suffix ☐ **-ASYM**.
30° tilt. Add suffix ☐ **-ASYM/30°**
4100°K Color Temperature: (3000˚K Standard).
Add suffix ☐ **-41K**.

Beam Spread: (Clear Lens, 90˚ Standard).
50˚: Add suffix ☐ **-50**.
65˚: Add suffix ☐ **-65**.

How to Specify

Every Lightrail is custom designed and fabricated to your specific project conditions. Drawings will be submitted on each project requesting specific dimensions to assure proper fit. Plans and elevation drawings are required for pricing and submittal drawing production.
1. Submit catalog number, options, and voltage; (example: LR5P-LED-SS-INT-RE-277).
2. Add special features and requirements necessary to complete specification.

C.W. Cole & Company, Inc.
2560 N. Rosemead Boulevard
South El Monte, CA 91733-1593

Tel. (626) 443-2473
Fax (626) 443-9253
info@colelighting.com
www.colelighting.com

Option 2

LUMENRAIL® LINEAR

LUMENRAIL® TECHNICAL SPECIFICATIONS

CCT: 3000 °K, 3500 °K, 4000 °K, 5000 °K
CRI: 84+
Power Consumption
Standard Output: 2W/Ft
Medium Output: 4W/Ft
High Output: 6W/Ft
Lens Finish: Matte and Transparent
Beam Angle: 60 and 120 degree
Distribution: Symmetric and Asymmetric
Voltage: 24 VDC
Driver: Class 2, 100 Watt, 24 VDC driver, 115-277 VAC or 347 VAC input
Listing: ETL and cETL listed for wet location
Dimmable: PWM
Battery Backup: Compatible with sine wave inverters

Illuminated Handrail Cutsheets

Option 3

1-year warranty

IP65 LM79 LM80

luxrail™ | INTERIOR/EXTERIOR APPLICATIONS

Application

ANSI and ADA compliant, **luxrail** is an indoor/outdoor LED-based handrail that delivers functional illumination. Three intensities may be specified: standard output, mid output, and high output. The standard light output version delivers illuminance levels appropriate for exterior applications (2 footcandles at grade) as well as for dark interior environments with low ambient illumination levels (e.g., themed environments, theatres and residential areas). The high output version delivers illuminance levels applicable to interior environments – providing in excess of 10 footcandles along the path of egress (ANSI required for stair treads). Independent photometric test reports and IES Format data are available at **www.iolighting.com**.

luxrail's standard handrail gripping surfaces are circular in cross section and meet 2004 ADAAG (Americans with Disability Act Accessibility Guidelines). Patented optical assemblies deliver 10˚, 25˚, and 55˚ beam spreads, as well as an asymmetric option. The 25˚ and 55˚ beam patterns are most suitable for illuminating pathways, while the 10˚ beam spread offers accent lighting for optional glass or stainless steel cable railing infills. Reference page 54 of this catalog for information regarding infill options. Projected average rated life is 50,000 hours at 70% of lamp lumen output. Contact factory for IES LM-80 compliance. To ensure proper performance, architectural details should allow for ventilation and air flow around the fixture. Ambient temperature surrounding the fixture shall not exceed 122˚F *(50˚C)*.

Light Output

Three luminous intensities are available for white light. All values below represent the initial raw lumens of the LED. IES format photometry of Lighting Facts labels represent actual light output measured in lumens and candle power. Light output losses include optical, thermal and power supply inefficiencies. IES LM-79 format files may be obtained from the factory or downloaded from **www.iolighting.com.** Results are typical measurements.

	Standard Output	Mid Output	High Output
2700K White:	72 lms/ft	181 lms/ft	253 lms/ft
3000K White:	81 lms/ft	203 lms/ft	284 lms/ft
3500K White:	83 lms/ft	206 lms/ft	289 lms/ft
4000K White:	88 lms/ft	219 lms/ft	307 lms/ft
5000K White:	88 lms/ft	219 lms/ft	307 lms/ft

Construction

luxrail may be post mounted or wall mounted. **io** recommends installation be completed by a qualified handrail installer. Mounting hardware (post or wall) is typically required up to 5' O.C., depending on the handrail alloy. Final post and wall bracket spacing must be determined by a licensed architect or structural engineer. **luxrail** is available in stainless steel and aluminum. Vandal resistant access chamber allows units to be removed for maintenance purposes.

All handrail component parts are engineered for quick installation. Field welding or cutting is typically not required. All parts are prefabricated to field dimensions and are assembled in the field with mechanical connection or epoxy. Contact **io** Lighting for recommended handrail installers.

The LED light fixture inside the caprail is UL Listed for wet locations. Handrail alloy options include stainless steel and aluminum. Contact factory for maintenance guidelines.

Electrical

luxrail houses a low voltage LED-based light fixture that is integrated into the underside of the handrail. 24 volt 100 watt power supplies are provided as a standard. For detailed information regarding daisy chain limitations, remote distance limitations, power supply options, and dimming options consult the **io** website **(www.iolighting.com)** or an **io** representative.

Driver Remote Distance
7'-0" (2.1m) w/22 AWG
18'-0" (5.5m) w/18 AWG
46'-0" (14.0m) w/14 AWG
71'-0" (21.6m) w/12 AWG

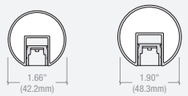
Dimming modules must be specified separately. For detailed information download the power supply specification sheet from **www.iolighting.com**.

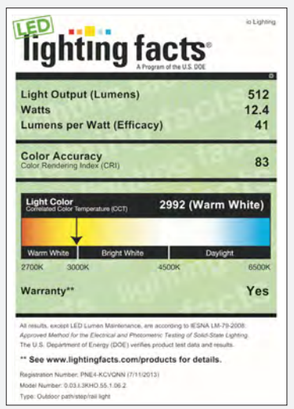
Power Consumption

Power consumption does not include power supply losses.

Standard Output	Mid Output	High Output
1.02 w/ft	2.54 w/ft	3.81 w/ft

Dimensions



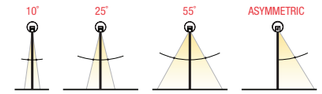


Label references 30° **luxrail** fixture with a 55˚ beam spread in High Output 3000K. Lighting Facts for additional beam spreads and light output levels may be obtained from **io** Lighting.

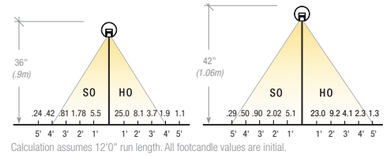
io Lighting 1100 Busch Pkwy Buffalo Grove, IL 60089 T 847.777.3900 F 847.777.3901 E info@iolighting.com W iolighting.com

Light Output / Distributions

BEAM SPREAD OPTIONS

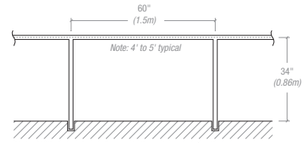


LIGHT OUTPUT - 55 DEGREE WARM WHITE



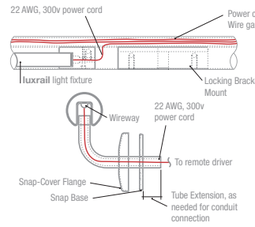
Calculation assumes 12'0" run length. All footcandle values are initial.

POST MOUNT APPLICATION



Note: Will depend on alloy and diameter specifications.

WALL MOUNT DETAILS*



* Wall mounted **luxrail** may be mounted to new or existing guardrail (by others).

Post and wall bracket spacing must be determined by a licensed architect or structural engineer.

io Lighting recommends a qualified handrail installer be on site during install.

LIGHT OUTPUT CONVERSION TABLE

	Standard Output	Mid Output	High Output
2700K White	0.25[1]	0.69[1]	0.94[1]
3000K White	0.27[1]	0.73[1]	1.00[1]
3500K White	0.29[1]	0.78[1]	1.06[1]
4000K White	0.29[1]	0.78[1]	1.06[1]
5000K White	0.32[1]	0.87[1]	1.19[1]

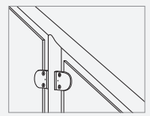
*Note: Visit **www.iolighting.com** or contact an **io** representative for IES format photometrics.*

Color Light Output	RED	GREEN	BLUE	AMBER
Light Output Multiplier	0.53[5]	0.51[5]	0.30[5]	0.51[5]

Mounting / Infill Options

PM (post mounted)

WM (wall mount intermediate)



Glass infill
(glass provided by others)

Stainless steel cable infill
(only available on flat surfaces)

Order Code

0	06										
io	1	2	3	4	5	6	7	8	9	10	11

1. PRODUCT FAMILY
06 luxrail

2. ALLOY / FINISH
SSS Stainless steel satin
SSP Stainless steel polished
CAA Clear anodized aluminum

3. SIZE
1 1.66" O.D. (1¼" pipe size) (available in SS only)
2 1.90" O.D. (1½" pipe size) (available for SS & CAA)

4. MOUNTING
PMC Post mount concrete
PMW Post mount wood
PMS Post mount stone
WM Wall or guard rail mounted

5. INFILL
AC Stainless steel cable [6]
GL Glass (provided by others)
C Custom
NR Not required

6. LIGHT DISTRIBUTION
10 10 Degree
25 25 Degree
55 55 Degree
ASYM Asymmetric
NI Handrail only (not illuminated)

7. LIGHT COLOR
27K Warm White
3K Warm White [3]
35K Warm White
4K Warm White
5K Cool White [3]
27KMO Warm White
3KMO Warm White [5]
35KMO Warm White
4KMO Warm White
5KMO Cool White [3]
27KHO Warm White
3KHO Warm White [5]
35KHO Warm White
4KHO Warm White
5KHO Cool White [3]
R Red[4]
G Green[4]
B Blue[4]
A Amber[4]
CC Custom Color[7]

8. LENGTH
GB2 Grab Bar 2' nominal[7]
GB3 Grab Bar 3' nominal[7]
GB4 Grab Bar 4' nominal[7]
GB5 Grab Bar 5' nominal[7]
HR Hand Rail length in Feet / Inches (provide overall length of each handrail section)[2][8]
HRC Hand Rail Curved length in Feet / Inches (provide overall length of each handrail section)[2][8]

9. VOLTAGE / DIMMING
1 120v
2 277v
3 120v w/dim
4 277v w/dim
5 Other (International voltage)

10. SPECIFY DRIVER / DIMMING[7]
*Note: If not specified otherwise, **io** will supply 100 watt drivers. Download Power Supply specification sheet from **www.iolighting.com**.*

11. _____
CE Available upon request.

Footnotes

1. ***Power Supply Specification Sheet** may be downloaded from **www.iolighting.com**.*
2. *Each handrail application will be custom to accommodate varying field conditions and design requirements. Shop drawings will be required to manage specifics of each handrail section.*
3. *White light variance between LEDs is equal to or better than 3-step MacAdam Binning.*
4. *Only available in 5.08 w/ft.*
5. *Stainless Steel cable available for flat surfaces only.*
6. *Detailed elevation drawings of handrail section are required for quote.*
7. *Non-standard color temperature and CRI are available. Consult factory for availability.*

YouTube
luxrail applications
youtube.com/iolighting

io Lighting 1100 Busch Pkwy Buffalo Grove, IL 60089 T 847.777.3900 F 847.777.3901 E info@iolighting.com W iolighting.com

Soffit/ Ceiling Lighting - Recessed

Option 1

indy

J7.1.8.2

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- 800 to 2300 lumen units provide comparable light out put to a 50W, 75W and 100W PAR30 halogen, or 20W and 39W PAR30 Metal Halide, while reducing energy consumption by 25% to 70%, and having a rated life of 50,000 hours
- Superior-quality white LED light output using Chip on Board technology
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury

ENERGY STAR

800/1300/1500/1700/2300 LUMEN 6" LED INTERNALLY ADJUSTABLE ACCENT LIGHT

12W/17W/19W/23W/33W LED

LA6 SERIES

Type Cat. No.

Project:

Notes:

PRODUCT SPECIFICATIONS

Optics

Upper Reflector: Faceted, Specular Alzak® reflector available in spot, narrow flood and flood beam distributions

Lower Cone: Low iridescent specular, semi-specular or satin Alzak® .050" thick angle cut cone in clear, gold, wheat, pewter or bronze with integral flange of same finish • See reflector options for other colors and finishes • Painted white flange is optional

Electrical

LED Light Engine: High output LED arrays provide outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500 or 4000K color temperatures • 80 CRI minimum • Consistent fixture-to-fixture color temperature that is within 3 MacAdams ellipses

Dimming: Dimmable via 0-10V protocol, increasing efficiency up to 30% while dimming • Lutron driver option allows dimming down to 1% • For a list of compatible dimmers see LED-DIM

LED Driver: Universal driver accommodates 120V to 277V input volts AC at 50/60Hz

• Power factor >0.9 • Easily replaceable from below or above the ceiling.

Life: Rated for 50,000 hours at 70% lumen maintenance

Mechanical

Adjustability: Yoke assembly allows 370° rotation and up to 45° tilt of light source • Toolless Rotation and tilt locking are standard • Angles marked to allow accurate, consistent tilt angles

Housing: Heavy gauge steel with black baked enamel finish

Mounting Frame: Heavy gauge steel lower housing ring with factory installed spring friction clips securely holds cones in ceiling • Accommodates ceilings up to ¾" thick; For thicker ceilings; consult factory

Mounting Bracket: Mounting brackets have 3" vertical adjustment and accepts most commercial bar hangers, including our proprietary Tru-Lock bar hangers

• Our one-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4" tile increments

Junction Box: Junction box rated for four (4) No. 12 AWG 90° C branch circuit conductors (2-in, 2-out)

Labels and Listings

• UL listed for feed through and damp locations • UL and cUL, RoHS compliant

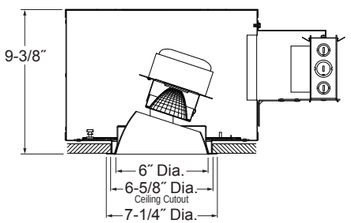
• EMI complies with FCC 47, Part 15, Class A

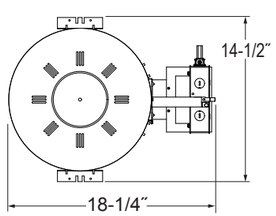
• I.B.E.W. Union made • ARRA Compliant

Warranty: 5 years when used in accordance with manufacturing guidelines. Product specifications subject to change without notice.

11/14 Rev.1

DIMENSIONS





1300 South Wolf Rd • Des Plaines, Illinois 60018
PHONE 800-367-5866 • FAX 888-708-6578
www.junolightinggroup.com

ORDERING INFORMATION: Rough-in, reflector and accessories each ordered separately. K7.1.8.2

Example: **LA6-17271-LDI**

ROUGH-IN	LIGHT ENGINE LUMENS	COLOR TEMP	VOLTAGE	OPTIONS
LA6 -	**08** 800 lm **13** 1300 lm **15** 1500 lm **17** 1700 lm **23** 2300 lm	**27** 2700 **30** 3000 **35** 3500 **40** 4000	**1** 120V **2** 277V **3** 347V	**F** Fuse and Fuse Holder †**CP** Chicago Plenum **BR** Emergency Battery Pack W/ Remote Test Switch **PD** Driver compatible with 3-wire fluorescent controls & Lutron Programmable Dimming EcoSystem® †**LDI** Lumen Depreciation Indicator (Cannot Be Used w/ BR Option) †Consult factory

Example: **LA600N-CQ-WH**

CONE	BEAM	COLOR	FINISH	OPTIONS
LA600	**S** Spot **N** Narrow Flood **F** Flood	**C** Clear **G** Gold **WT** Wheat **PT** Pewter **BZ** Bronze **B** Black **W** White	Low Iridescent Alzak Finishes: **L** Specular **S** Satin ***Q** Semi-Specular (*Clear only) Blank for White	**WH** Painted flange only (White)

Example: **HB-TL**

ACCESSORIES

1087 Accessory Holder (Holds up to 2 Accessories)
- **PGL** Prismatic Glass Lens
- **LSL** Linear Spread Lens
- **LVR** Louver
- **CF** Color Filter (Specify color)
  - **R** Red
  - **P** Pink
  - **B** Light Blue
  - **MB** Medium Blue
  - **A** Amber
  - **G** Green

HB-TL 25" Tru-Lock grid ceiling bar hangers, Pair
HB-52 52" C-Channel Bar Hangers, Pair
HB-28 28" C-Channel Bar Hangers, Pair
LB-27 27" Linear Bar Hangers, Pair
SCA6-* Sloped Ceiling adapter
*Angle must be specified when ordering; Available in 5°, 10°, 15°, 20°, 25°, 30°
Example: SCA6-20

ENGINEERING DATA

Voltage			120		
Light Engine Lumens	800	1300	1500	1700	2300
Delivered Lumens	661-727	661-1044	1085-1194	1271-1398	1684-2014
Efficacy	57-62	57-63	56-62	55-61	52-62
CCT			27K/3K/35K/4K		
Input Current	0.097	0.140	0.163	0.195	0.277
Input Wattage	11.7	16.6	19.3	23.1	32.9
Input Frequency			50/60Hz		
Power Factor	0.9	0.9	0.9	0.9	0.9
Voltage			277		
Light Engine Lumens	800	1300	1500	1700	2300
Delivered Lumens	661-727	949-1044	1085-1194	1271-1398	1684-2014
Efficacy	57-60	57-63	56-62	55-61	52-62
CCT			27K/3K/35K/4K		
Input Current	0.042	0.060	0.070	0.083	0.119
Input Wattage	11.7	16.6	19.3	23.1	32.9
Input Frequency			50/60Hz		
Power Factor	0.9	0.9	0.9	0.9	0.9

For 347 Volt, consult factory.

Energy Star Qualified:

Product #	Fixture Configurations = Energy Star
LA6-(XX)(YY)(Z): LA600S-(AA)(B) LA600N-(AA)(B) LA600F-(AA)(B)	Lumen Package: XX = 08, 13, 15, 17, 23 CCT: YY = 27, 30, 35, 40 Voltage: Z = 1, 2 Reflector Color: AA = C, G, WT, PT, BZ, B, W Reflector Finish: B = L, S, Q

PERFORMANCE DATA:

LA6-23301; LA600S-CL LA600N-CL LA600F-CL

CBCP - Centerbeam candlepower
FC - Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°.

Lamp	Beam Type	Beam Spread°	Rated Life	Delivered Lumens	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
32W LED, 3000K	SP	15°	50,000	1,831	11,127	8	174	2.1	2.1	113	2.8	2.4	4	87	6.9	4.3	2.1	246	4.0	2.1	1.5
Spot						10	111	2.6	2.6	72	3.5	3.0	6	39	10.4	6.5	3.1	109	6.0	3.1	2.2
						12	77	3.1	3.1	50	4.2	3.6	8	22	13.9	8.7	4.1	61	8.0	4.2	2.9
						14	57	3.6	3.6	37	4.8	4.2	10	14	17.3	10.9	5.2	39	10.0	5.2	3.6
						16	43	4.1	4.1	28	5.5	4.8	12	10	20.8	13.0	6.2	27	12.0	6.3	4.4
32W LED, 3000K	NFL	22°	50,000	1,684	7,018	4	439	1.6	1.6	285	2.1	1.8	2	219	3.5	3.5	1.6	620	2.0	1.6	1.1
Narrow Flood						6	195	2.3	2.3	127	3.1	2.7	3	97	5.2	5.3	2.3	276	3.0	2.4	1.6
						8	110	3.1	3.1	71	4.2	3.6	4	55	6.9	7.0	3.1	155	4.0	3.2	2.2
						10	70	3.9	3.9	46	5.2	4.5	5	35	8.7	8.8	3.9	99	5.0	4.0	2.7
						12	49	4.7	4.7	32	6.3	5.4	6	24	10.4	10.5	4.7	69	6.0	4.8	3.3
32W LED, 3000K	FL	38°	50,000	1,707	3,479	4	217	2.8	2.8	141	3.9	3.3	2	109	3.5	9.0	2.8	308	2.0	3.2	2.0
Flood						5	139	3.5	3.5	90	4.9	4.1	3	48	5.2	13.5	4.2	137	3.0	4.8	3.0
						6	97	4.2	4.2	63	5.9	4.9	4	27	6.9	17.9	5.6	77	4.0	6.4	4.0
						7	71	4.9	4.9	46	6.9	5.7	5	17	8.7	22.4	7.0	49	5.0	8.0	5.0
						8	54	5.6	5.6	35	7.8	6.5	6	12	10.4	26.9	8.5	34	6.0	9.6	6.0

The beam spread in degrees and the beam "L" and "W" in the above tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination".

Lumen Multiplier:

800 x **0.39**
1300 x **0.56**
1500 x **0.64**
1700 x **0.75**
2300 x **1.00**

CCT Multiplier:

2700K x **1.00**
3000K x **1.00**
3500K x **1.07**
4000K x **1.10**

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

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Visit us at www.junolightinggroup.com

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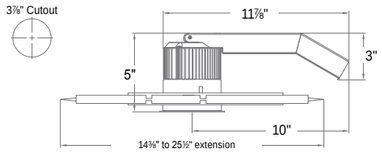
Soffit / Ceiling Lighting - Recessed

Option 2

Eco-Downlight LED 3" New Construction



Fixture

- Integral 120-277V input LED Driver, 24W output, 90% efficient, 0.99 power factor
- UL/C-UL Listed for damp location

LEDs

- High-performance COB LEDS:
  - 2,700˚K ±50, CRI 90, 1900 lm
  - 3,000˚K ±50, CRI 90, 2035 lm
  - 3,500˚K ±50, CRI 90, 2186 lm
  - 4,000˚K ±50, CRI 80, 2691 lm
- 2-step binning process
- 50,000 hours at 70% lumen maintenance (L70)
- LM79 test results available at csllighting.com
- Standard dimming compatible with INC (incandescent/ triac), ELV or 0-10V dimmers to 10%
- Field-replaceable light engine and driver

Housing / Heat Sink

- 30°, 50° and 80° optics included
- Optional 10° optic available
- Extruded aluminum heat sink with black anodized finish
- Cold-rolled steel housing with black powder-coat finish
- Includes black oxide-coated, heat-treated spring steel mounting clips
- Adjusts vertically to accommodate ceiling thicknesses from ½" to 1"
- Galvanized steel plaster frame, adjustable hanger bars
- Stamped aluminum junction box with two ½" trade-size knockouts

For rough in order plaster frame and RM housing separately

EDL-PFRM	Plaster frame with hanger bars

See Remodel specification sheet for fixture catalog number

EDL — NC — CCT — 4 — DIM

- FIXTURE
- NC HOUSING
- CCT: 27 (2700K), 30 (3000K), 35 (3500K), 40 (4000K)
- VERSION
- DIM: BLANK - Standard 10% (120-277V); L1 - Lutron 1% Hi Lume A Series (120V only); L2 - Lutron 1% Eco System H Series (120-277V); EL1 - eLdo 1% DALI (120-277V)

Example: EDL-NC-27-4-L2

Accessories (Order Separately)

EDL-10-OPTIC-4	10° Optic
EM-1000	25W Led Remote Inverter
EM-1002	10W EM Battery (field installable)

Project _____

Fixture Type _____

Location _____

Contact _____

Phone _____

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A Division of Troy-CSL Lighting, Inc.
14508 Nelson Avenue City of Industry CA 91744 Tel: 626.336.4511 Fax: 626.330.4266 www.csllighting.com

Eco-Downlight LED

3" Trims

Materials

- Trim rings: Diecast aluminum
- Reflectors and baffles: Round – Spun aluminum and diecast aluminum
  Square – Diecast aluminum

Finishes

- Standard Finishes: White Powder-Coat, Satin Aluminum, Bronze
- RAL color matching available (consult factory)

Accessories

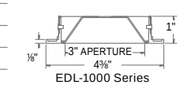
- Round and square flush mount adapaters available

Photometrics

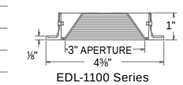
- See www.csllighting.com for current photometric data

3" Round Trims

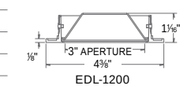
	NUMBER	TRIM FINISH	REFLECTOR/BAFFLE
☐	EDL-1000-4	White	Clear Alzak Reflector
☐	EDL-1001-4	White	Black Alzak Reflector
☐	EDL-1002-4	Satin Aluminum	Clear Alzak Reflector
☐	EDL-1003-4	Satin Aluminum	Black Alzak Reflector
☐	EDL-1004-4	White	Haze Reflector
☐	EDL-1005-4	Satin Aluminum	Haze Reflector
☐	EDL-1006-4	White	White Reflector
☐	EDL-1007-4	Bronze	Bronze Reflector
☐	EDL-1100-4	White	White Baffle
☐	EDL-1101-4	White	Black Baffle
☐	EDL-1102-4	Satin Aluminum	Black Baffle
☐	EDL-1103-4	Bronze	Bronze Baffle
☐	EDL-1200-4	White	Shower Light
☐	EDL-1201-4	Satin Aluminum	Shower Light



EDL-1000 Series



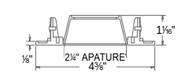
EDL-1100 Series



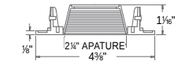
EDL-1200

3" Square Trims

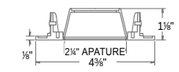
	NUMBER	TRIM FINISH	REFLECTOR/BAFFLE
☐	EDL-2000-4	White	White Reflector
☐	EDL-2001-4	White	Black Reflector
☐	EDL-2002-4	White	Haze Reflector
☐	EDL-2003-4	Satin Aluminum	Black Reflector
☐	EDL-2004-4	Satin Aluminum	Haze Reflector
☐	EDL-2005-4	Bronze	Bronze Reflector
☐	EDL-2100-4	White	White Baffle
☐	EDL-2101-4	White	Black Baffle
☐	EDL-2102-4	Satin Aluminum	Black Baffle
☐	EDL-2103-4	Bronze	Bronze Baffle
☐	EDL-2200-4	White	Shower Light
☐	EDL-2201-4	Satin Aluminum	Shower Light



EDL-2000 Series



EDL-2100 Series



EDL-2200

3" Accessories

	NUMBER	DESCRIPTION
☐	EDL-RD-FMA	Round Flush Mount Adapter
☐	EDL-SQ-FMA	Square Flush Mount Adapter


3" Round Flush Mount Adapter


3" Square Flush Mount Adapter

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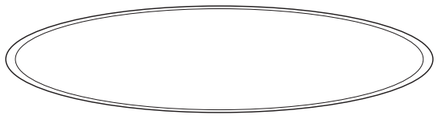
Soffit / Ceiling Lighting - Recessed

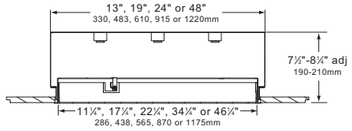
Option 3

Type
Job Name
Catalog Number

Made in USA

P9000 LED Recessed





ordering - P9000 LED

series	lamp rows	shielding	color/ finish*	circuiting	voltage	ceiling system	controls/options
P9012 12˝ dia. P9018 18˝ dia. P9020 2˝ dia. P9030 3˝ dia. P9040 4˝ dia.	LED3LO, 3SO, 3HO˚ 3000k LED35LO, 35SO, 35HO˚ 3500k LED4LO, 4SO, 4HO˚ 4000k ˚LO-Low Output, SO-Standard Output, HO-High Output	FWA˚ flush white acrylic lens DWA drop white acrylic lens ˚standard	TMW textured matte white (Standard) YGW gloss white Y_ premium color CC custom color *Indicates color of flange for X1, X3 ceiling systems only	SC single circuit DC dual circuit	120 277 UNV 120-277	X1 exposed T-Bar X3 hard ceiling flange trim X7 hard ceiling trimless mud-over flange	ND non-dimming standard DM10 0-10v 10% dimming DM01 0-10v 1% dimming STEP step dimming 100-50-off DML 1% Lutron dimming DMD DALI dimming EMH˚ emergency battery (1100-1200 lumens) ˚Consult factory for diameters <4˝

Features Sleek and minimal aesthetic, it simply melts into the ceiling, flush lens with a clean and simple trim. DWA drop lens option 1.25" into room.

Construction The housing is made of die-formed, 20-gauge steel.

Finish The standard housing color is gloss white (YGW) while the standard exterior trim color is textured matte white (TMW) using polyester powder paint.

Electrical Must specify LED dimming controls. LED fixtures have constant current driver(s) with less than 20% THD when loaded to a minimum of 60%. Drivers sink a maximum of 6mA per driver. DM10 and DM01 LED drivers are 0-10V dimmable and are compatible with most 0-10V wall slide dimmers and direct 0-10V analog signal dimmers. Recommended wall dimmer is Leviton IP710 or equivalent. See data sheet to confirm all specified dimmers meet require specifictions. Fixtures are ETL Damp labeled and I.B.E.W. manufactured. For maximum driver size consult factory.

Mounting Fixture is to be recess-mounted into exposed T-bar or hard ceiling application(s).

Prudential reserves the right to change design specifications or materials without notice.

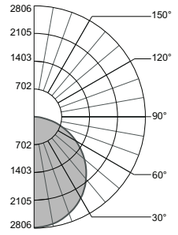
photometric data

P9018-LED3LO-VWA-D1

Report # LTL359807 D=100% I=0.0% Spacing Criteria: Along 1.2; Across 1.2

Delivered Lumens: 1763
Input Watts: 40
Lumens/Watt: 45

Calculated L70 ≥ 100,000 hours
Reported L70 (6k) ≥ 36,000 hours
5 year LED warranty - see prulite.com



Zonal Lumen Summary

Zone%	Lumens	% Luminaire
0-90	1763	100.00
90-180	0.00	0.00

Candlepower Summary

Angle	Mean CP	Lumens
0	635	
5	633	61
10	623	
15	607	171
20	586	
25	559	257
30	527	
35	490	306
40	451	
45	408	314
50	363	
55	315	281
60	266	
65	216	213
70	165	
75	116	123
80	71	
85	32	37
90	2	

Coefficients of Utilization (%)

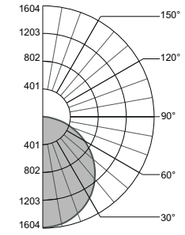
Floor	effective floor cavity reflectance = 20								
Ceiling	80			70			50		
Wall	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111
1	109	105	101	97	107	103	99	96	98	95	93
2	100	93	87	81	98	91	85	80	87	82	78
3	92	82	74	68	90	80	73	68	78	72	66
4	85	74	65	59	83	72	65	58	70	63	58
5	78	66	57	51	76	65	56	51	62	55	50
6	72	59	50	44	70	58	50	44	56	49	44
7	66	53	44	39	65	52	44	38	51	43	38
8	61	48	40	34	60	47	39	34	46	39	34
9	57	44	35	30	55	43	35	30	42	35	30
10	53	40	32	27	52	39	32	26	38	31	26

P9030-LED3LO-FWA

Report # LTL359805 D=100% I=0.0% Spacing Criteria: Along 1.2; Across 1.2

Delivered Lumens: 4520
Input Watts: 66
Lumens/Watt: 68

Calculated L70 ≥ 100,000 hours
Reported L70 (6k) ≥ 36,000 hours
5 year LED warranty - see prulite.com



Zonal Lumen Summary

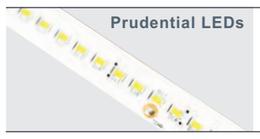
Zone%	Lumens	% Luminaire
0-90	4520	100.00
90-180	0.00	0.00

Candlepower Summary

Angle	Mean CP	Lumens
0	1604	
5	1596	154
10	1573	
15	1535	432
20	1482	
25	1415	651
30	1337	
35	1248	779
40	1149	
45	1043	803
50	929	
55	809	722
60	685	
65	558	551
70	430	
75	307	325
80	192	
85	92	104
90	11	

Coefficients of Utilization (%)

Floor	effective floor cavity reflectance = 20								
Ceiling	80			70			50		
Wall	70	50	30	10	70	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111
1	109	105	101	97	107	103	99	95	98	95	92
2	100	93	86	81	98	91	85	80	87	82	78
3	92	82	74	68	89	80	73	67	77	71	66
4	85	73	65	59	82	72	64	58	69	63	57
5	78	66	57	50	76	64	56	50	62	55	50
6	72	59	50	44	70	58	49	44	56	49	43
7	66	53	44	38	64	52	44	38	50	43	38
8	61	48	39	34	60	47	39	33	46	38	33
9	57	44	35	30	55	43	35	30	42	34	29
10	53	40	31	26	51	39	31	26	38	31	26



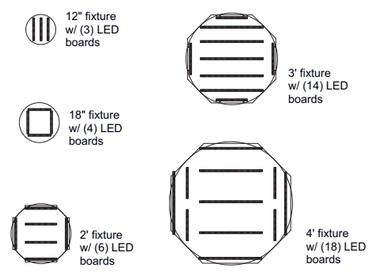
PruBin™ is Prudential Lighting's exclusive 'job binning' method that ensures color temperature consistency across all luminaires on a project. Meticulously testing and labeling EVERY LED board to +/- 25 lumens, +/- 50k CCT and +/- .004 Duv — while also separating positive from negative — allows us to match color, hue and intensity throughout a project and provides a consistent color temperature within a 2-step MacAdam ellipse.

LED Delivered Lumens and Watts

P9000	LED LO	LED SO	LED HO
P9012	629 Lm 15 w	1213 Lm 27 w	1458 Lm 34 w
P9018	918 Lm 20 w	1793 Lm 40 w	2119 Lm 47 w
P9020	1395 Lm 29 w	2825 Lm 59 w	3337 Lm 70 w
P9030	4520 Lm 66 w	8916 Lm 138 w	10,500 Lm 164 w
P9040	6449 Lm 87 w	12,454 Lm 178 w	14,963 Lm 211 w

Lumen output and wattages are nominal for all 3 color changes and may vary +/- 5%.

LED Layout



Soffit / Ceiling Lighting - Surface Mount

ORDERING (FIXTURE)

CY2-AD [LEDX]

Example Model Number: CY2-AD-1-MA-80X-13A30-2-EL-1

CY2-AD- [IP RATING] – [FINISH] – [NOMINAL SYSTEM CONFIGURATION] – [COLOR TEMPERATURE] – [BEAM OPTIC] – [POWER SUPPLY / DIMMING] – [EFFECTS DEVICE]

IP RATING
- **1** IP14 (standard)
- **2** IP54 wet loc.
- **(IP54 in WH or BK powder coat finishes only.)**

FINISH
- **MA** Metallic Gray (Natural Aluminum with Clear Coat)
- **WH** Matte White Powder Coat
- **BK** Black Anodized with Matte Black Powder Coat

NOMINAL SYSTEM CONFIGURATION
- **80X-13A** 80+ CRI, 18W / 1300lm
- **95X-10A** 95+ CRI, 25W / 1000lm
- (Lumens are rated output for raw LED)

COLOR TEMPERATURE
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K

BEAM OPTIC
- **1** 25°
- **2** 40°
- **3** 60°

POWER SUPPLY / DIMMING
- **AN** 120V-277V Electronic, Analog 0-10
- **EL** 120V Electronic ELV
- **RMT** Remote driver (See pg 3)

EFFECTS DEVICE
- **0** No Lens
- **1** Linear Spread
- **2** Honey Comb
- **3** Clear Glass
- **4** Soft Focus
- **5** Frosted Glass
- **6** Frosted Soft Focus

ORDERING (MOUNTING)

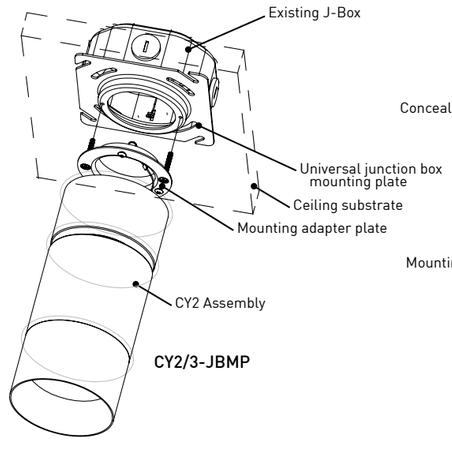
☐ **CY2/3-JBMP** Mounting plate for standard j-box

☐ **CY2/3-SMK-3/0-** [ ] Surface mount kit for standard 3" 3/0 j-box with concealer plate

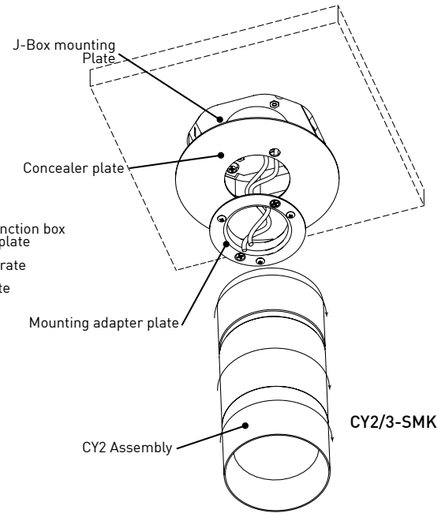
COLOR OPTIONS
- **WH** White
- **BK** Black
- **MA** Machined Alum.

☐ **CY2/3-SMK-4/0-** [ ] Surface mount kit for standard 4" 4/0 j-box with concealer plate

COLOR OPTIONS
- **WH** White
- **BK** Black
- **MA** Machined Alum.



CY2/3-JBMP



CY2/3-SMK

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[031815]

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As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

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[FAX] +1-210-227-4967

ORDERING (FIXTURE)

CY2-AD [LEDX]

Example Model Number: CY2-AD-1-MA-80X-13A30-2-EL-1

CY2-AD- [IP RATING] – [FINISH] – [NOMINAL SYSTEM CONFIGURATION] – [COLOR TEMPERATURE] – [BEAM OPTIC] – [POWER SUPPLY / DIMMING] – [EFFECTS DEVICE]

IP RATING
- **1** IP14 (standard)
- **2** IP54 wet loc.
- **(IP54 in WH or BK powder coat finishes only.)**

FINISH
- **MA** Metallic Gray (Natural Aluminum with Clear Coat)
- **WH** Matte White Powder Coat
- **BK** Black Anodized with Matte Black Powder Coat

NOMINAL SYSTEM CONFIGURATION
- **80X-13A** 80+ CRI, 18W / 1300lm
- **95X-10A** 95+ CRI, 25W / 1000lm
- (Lumens are rated output for raw LED)

COLOR TEMPERATURE
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K

BEAM OPTIC
- **1** 25°
- **2** 40°
- **3** 60°

POWER SUPPLY / DIMMING
- **AN** 120V-277V Electronic, Analog 0-10
- **EL** 120V Electronic ELV
- **RMT** Remote driver (See pg 3)

EFFECTS DEVICE
- **0** No Lens
- **1** Linear Spread
- **2** Honey Comb
- **3** Clear Glass
- **4** Soft Focus
- **5** Frosted Glass
- **6** Frosted Soft Focus

ORDERING (MOUNTING)

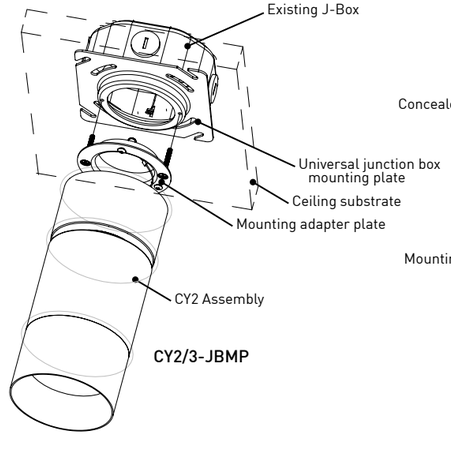
☐ **CY2/3-JBMP** Mounting plate for standard j-box

☐ **CY2/3-SMK-3/0-** [ ] Surface mount kit for standard 3" 3/0 j-box with concealer plate

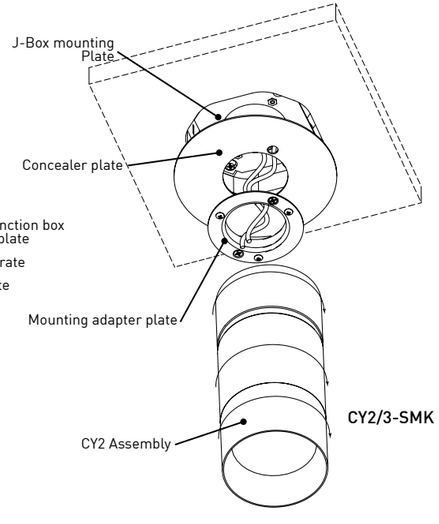
COLOR OPTIONS
- **WH** White
- **BK** Black
- **MA** Machined Alum.

☐ **CY2/3-SMK-4/0-** [ ] Surface mount kit for standard 4" 4/0 j-box with concealer plate

COLOR OPTIONS
- **WH** White
- **BK** Black
- **MA** Machined Alum.



CY2/3-JBMP



CY2/3-SMK

LUCIFER LIGHTING COMPANY

[031815]

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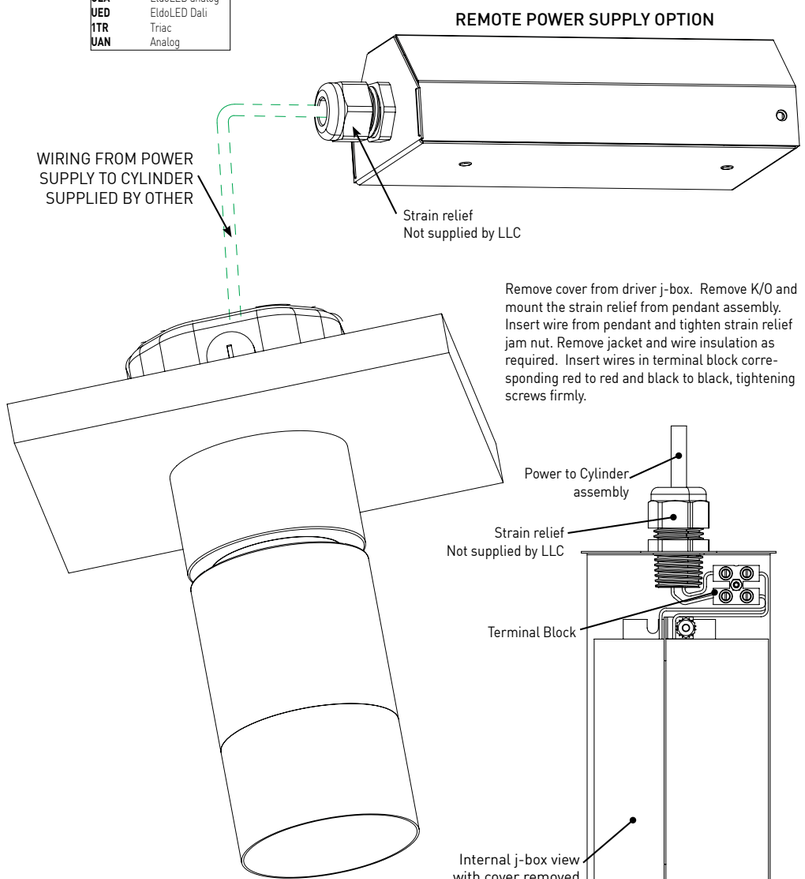
Soffit/ Ceiling Lighting - Surface Mount

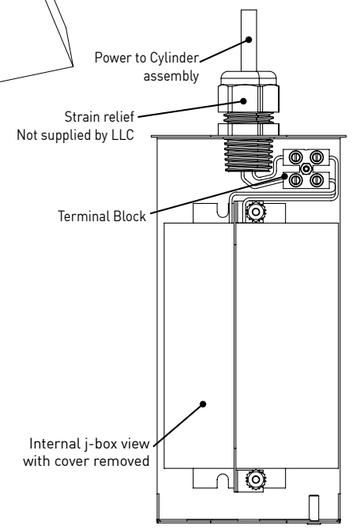
ORDERING (REMOTE POWER SUPPLY) — CY2-AD [LEDX]

☐ **PS-RMT-80X-13A-** ☐

UL3	Lutron 3, 1000mA
1L2	Lutron 2, 1000mA
UEA	EldoLED analog
UED	EldoLED Dali
1TR	Triac
UAN	Analog



Remove cover from driver j-box. Remove K/O and mount the strain relief from pendant assembly. Insert wire from pendant and tighten strain relief jam nut. Remove jacket and wire insulation as required. Insert wires in terminal block corresponding red to red and black to black, tightening screws firmly.



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As part of its policy of continuous research and product development, the company reserves the right to change

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San Antonio, Texas 78219
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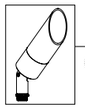
Tree Uplighting - Above Grade



BK SSL SOLID STATE LIGHTING — the power of dimming with adjust-e-lume® TECHNOLOGY

DELTA STAR™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example	-	DS	- LED	- e22	- SP	- A7	- BZW	- 12	- 11	- A	- 360SL

Material
- **Blank** - Aluminum
- **B** - Brass
- **S** - Stainless Steel

Series
- **DS** - Delta Star™

Source
- **LED** - **'e'** Technology with Integral Dimming Driver (25W min. load when dimmed) **Requires magnetic Low Voltage dimmer*

LED Type
- **e36** - 8WLED/2.7K
- **e22** - 8WLED/3K
- **e23** - 8WLED/4K
- **e27** - 8WLED/Amber

Optics*
- **NSP** - Narrow Spot (Red Indicator)
- **SP** - Spot (Green Indicator)
- **MFL** - Medium Flood (Yellow Indicator)
- **WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** *(Choose factory setting)*

A9 (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**

***Please see Adjust-e-Lume® photometry to determine desired intensity.*

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU *interior use only*

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	*Also available in RAL Finishes See submittal SUB-1439-00*	

Lens Type
- **12** - Soft Focus Lens
- **13** - Rectilinear Lens

Shielding
- **11** - Honeycomb Baffle

Cap Style
- **A** - 45°
- **B** - 90°
- **D** - 45° less Weep Hole *(Interior Use Only)*
- **E** - 90° less Weep Hole *(Interior Use Only)*

Option
- **360SL** - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	Magnetic Low Voltage Dimmer	-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING | 40429 Brickyard Drive • Madera, CA 93636 • USA | 559.438.5800 • FAX 559.438.5900 | www.bklighting.com • info@bklighting.com | SUBMITTAL DATE 1-8-14 | DRAWING NUMBER SUB000930

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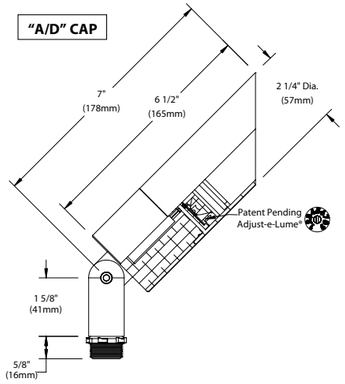
BK SSL SOLID STATE LIGHTING — the power of dimming with adjust-e-lume® TECHNOLOGY

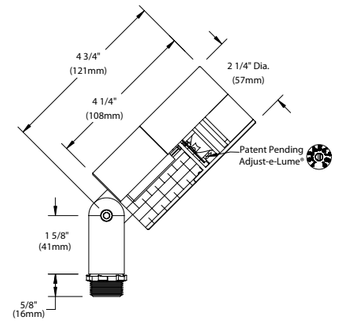
DELTA STAR™

PROJECT:	
TYPE:	

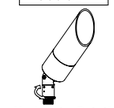
"A/D" CAP



"B/E" CAP



360 SL™

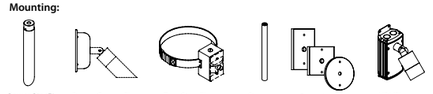


Horizontal Rotation
(Optional 360SL™ Knuckle)

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Accessories *(Configure separately)*

Mounting:



Power Pipe™ | Power Canopy™ | Tree Strap™ | Stems | Canopies | UPM™

Remote Transformers:

TR Series | Power Pipe™ | UPMRM™

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFCs). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap
Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), or 1" deep bezel with 90° cutoff ('B' or 'E') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output *intensity.*

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Remote Transformer
For use with 12VAC BK SSL remote transformer.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.

**Teflon is a registered trademark of DuPont Corporation.*
**Energy Star is a registered trademark of the United States Environmental Protection Agency.*

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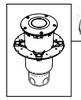
Tree Uplighting - Ingrade



Precision² — the power of e with adjust-e-lume® TECHNOLOGY — BKSSL SOLID STATE LIGHTING

Integral Transformer (TR)

CO²

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

		CO2	LED	TR						TRe20		
Example	**B**	**-**	**CO2**	**-**	**LED**	**-**	**TR**	**-**	**e22**	**-**	**MFL**	**-**	**A9**	**-**	**WHP**	**-**	**11**	**-**	**TRe20**	**-**	**AH**

Material
Blank - Aluminum **B** - Brass **S** - Stainless Steel

Faceplate
CO2 - Flange

OptiLock®
LED - **'e'** Technology with Integral Driver

Housing
TR - Integral Transformer Housing

LED Type
e36 - 8WLED/2.7K **e23** - 8WLED/4K
e22 - 8WLED/3K **e27** - 8WLED/Amber

Optics
NSP - Narrow Spot (Red Indicator) **SP** - Spot (Green Indicator) **MFL** - Medium Flood (Yellow Indicator) **WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** *(Choose factory setting)*
A9 (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**
***Please see Adjust-e-Lume® photometry to determine desired intensity.*

Finish

Aluminum & Brass Faceplates

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Faceplates

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Faceplates

Machined	MAC
Polished	POL
Brushed	BRU *Interior use only.*

Premium Finish

ABP	Antique Brass Powder	**CMG**	Cascade Mountain Granite	**RMG**	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	**CRI**	Cracked Ice	**SDS**	Sonoran Desert Sandstone
AQW	Antique White	**CRM**	Cream	**SMG**	Sierra Mountain Granite
BCM	Black Chrome	**HUG**	Hunter Green	**TXF**	Textured Forest
BGE	Beige	**MDS**	Mojave Desert Sandstone	**WCP**	Weathered Copper
BPP	Brown Patina Powder	**NBP**	Natural Brass Powder	**WIR**	Weathered Iron
CAP	Clear Anodized Powder	**OCP**	Old Copper	*Also available in RAL Finishes See submittal SUB-1439-00*	

Accessory *Select up to 2. Requires Accessory Holder.*
11 - Honeycomb Baffle **12** - Soft Focus Lens **13** - Rectilinear Lens

Transformer Type
TRe20 - TRe20 Electronic Transformer*
*(*105-300 VAC, 50/60 Hz. Non-Dimming)*

Option
AH - Accessory Holder *(Accommodates up to 2 Media)*
DG - Dome Glass Lens *(Replaces Flat Glass. Not Driveover Rated)*
GM-R - Round Grout Mask
GM-S - Square Grout Mask

DRIVER DATA

Input Volts	InRush Current	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING
40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

PRELIMINARY 01-15-15 | DRAWING NUMBER SUB-2374-00

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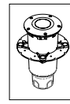


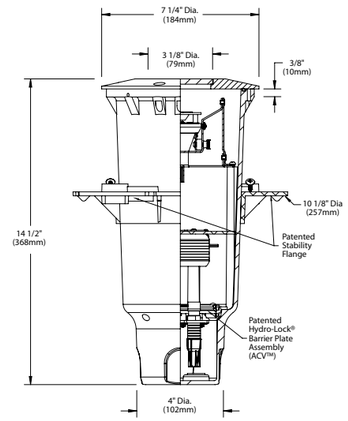
Precision² — the power of e with adjust-e-lume® TECHNOLOGY — BKSSL SOLID STATE LIGHTING

Integral Transformer (TR)

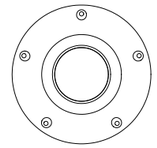
CO²

PROJECT:	
TYPE:	

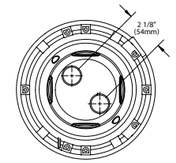
SIDE VIEW



FACEPLATE



BOTTOM VIEW



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Fixture Housing
Corrosion-free composite, made from high strength, thermo-formed, sheet molded polyester compound. Glass reinforced, flame retardant and UV stabilized. (2) bottom-entry, 3/4" NPT female conduit entries with knockout plugs and (4) side flats for 1/2" or 3/4" conduit adapters.

Patented Stability Flange
Corrosion-free composite flange projects into installation sub-strate to reinforce housing stability. Integral REBAR saddles simplify installation onto concrete form. (4) Orthogonal bosses permit use of 1/2" PCV conduit or EMT to simplify vertical position and leveling of housing. Pre-set self-tapping screws anchor housing at proper elevation.

Aiming
Dual axis OptiLock® stainless steel aiming bracket rotates 360° and provides vertical adjustment up to 35° from nadir. Positive lock action ensures optical orientation.

Socket
Specification grade ceramic body, miniature bi-pin quartz lamp holder.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A. Conforms to Safety Std. C22.2 No. 250.13-12. Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Installation
Integral, copper-free aluminum concrete pour collar (CPC), furnished in Black finish, permits for direct burial installation in soil or concrete. Consult Drainage Installation Guide for In-Grade Fixtures (DIG-IT) for compliance with proper soil preparation and drainage requirements prior to installation.

Transformer
Integral, BKSSL electronic transformer. 105-300VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.

Wiring / Connectors
Teflon® coated wire, 18 gauge, 600V, 250°C rated and certified to UL1659 standard. Features OptiLock® and gear tray quick disconnects. Patented HydroLock® with anti-siphon valve (ASV™) wireway. (3) Water-Tight connectors supplied for line connection. Maximum (2) #10 & (1) #18. Minimum (1) #12 & (1) #18.

Water Management
Self Evacuating Airtight Lamp Module (S.E.A.L.™). IP-68 rated, vacuum sealed enclosure. Patented Anti-Condensation Valve (ACV™) eliminates condensation from optical chamber. High temperature silicone 'O' Ring at faceplate. Patented HydroLock® technology provides fail safe water barrier between junction box and interior components. Anti-siphon valve (ASV™) prevents "wicking" through conductor insulation.

Lens
High heat, shock resistant, tempered 1/4" borosilicate flat glass lens. Suitable for walk-over and drive-over applications to 35,000 lbs.

Faceplate
Solid, 1/2" machined 6061T6 aluminum with (5) black oxide, captive, stainless steel mounting screws. Faceplate options include solid, 1/2" machined brass and solid, 1/2" machined stainless steel.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Listings
ETL Listed to ANSI/UL Standard 1598 and Certified to CAN/CSA Standard C22.2 No. 250. RoHs compliant. IP68 Rated. Made in the USA.

ETL Listed — USA — RoHS — lighting facts

*Teflon is a registered trademark of DuPont Corporation.
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

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PRELIMINARY 01-15-15 | DRAWING NUMBER SUB-2374-00

Precision2® and its features are covered in whole or in part by U.S. Patent Nos. 7,033,038; 6,254,258 B1; 7,249,867 B2; 7,370,988 B2; 7,553,042; 7,560,148; and 7,699,489.

Upgrade Decorative Fixtures

Option 1

Rev: 2014/04/18

Colonnade™


OW1040-GY7005


OW1044-GLIM

Variation

OUTDOOR

WALL

ADA

XPS

LED

NEW

Features

- 5 year product warranty
- Solid metal accent bars
- Sealed and gasketed construction
- Oven cured no VOC acrylic powder coat
- Fabricated 1/8" thick white acrylic diffuser, F1 rated, UV stable, UL-94 HB flame class rated
- Easy relamping
- Fluorescent or low energy, long life LED source
- High power factor electronic ballast, 0° F / -18° C starting temperature (fluorescent)
- Mounts to standard electrical junction box (by others) with provided hardware
- ETL listed to UL standards (US and Canada) for wet location mounting 4' above grade

LED Features

- White source (3000K, 3500K, 4000K), 0-10V dimmable
- Fixture tested per LM79 standard (tested with 3500K source)
- Modular design allowing replacement of the LED source and power supply
- Thermally managed within manufacturer specifications to promote long LED life
- No ultraviolet or infrared, alleviating potential damage to art, fabric and materials
- Mercury free LED source reduces impact to waste stream

COMPANIONS

Capitol	Avatar	Cylinder
Ceiling Page 214	Wall / Ceiling Page 186	Pendant Page 256

800-788-VISA
www.visalighting.com

VISA LIGHTING
An Oldenburg Group Company

COLONNADE™

Rev: 2014/04/18

Order Code Example: OW1040 — 2QF13 (MVOLT) — GY7005 — XPS

Color Code Required for Painted Finishes

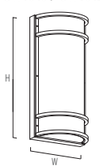
Model Number	Source (Nominal Source Lumens; LED sources are dimmable (0-10V))	Finish (Painted is Standard; All colors are Fluorescent)	Options	Dimensions
OW1040	• LCW900 2QF13 LNW900 2QF26 • LWW900 2N40 • LCW2000 LNW2000 • LWW2000	(Painted) • VG	REM XPS	W 7-1/4" (184 mm) H 16" (406 mm) D 5-1/2" (140 mm) MC 8" (203 mm)
OW1042	• LCW900 3QF13 LNW900 2QF26 • LWW900 2N60 • LCW2000 LNW2000 • LWW2000			W 9-1/4" (235 mm) H 20-1/4" (514 mm) D 6" (152 mm) MC 10-1/8" (257 mm)
OW1044	• LCW900 2QF13 LNW900 2QF26 • LWW900 2N40 • LCW2000 LNW2000 • LWW2000			W 7-1/4" (184 mm) H 16" (406 mm) D 5-1/2" (140 mm) MC 8" (203 mm)
OW1046	• LCW900 3QF13 LNW900 2QF26 • LWW900 2N60 • LCW2000 LNW2000 • LWW2000			W 9-1/4" (235 mm) H 20-1/4" (514 mm) D 6" (152 mm) MC 10-1/8" (257 mm)

Line Drawings

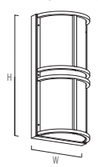
Depth is measured from wall to front of fixture
Mounting Center is measured from top of fixture to center of junction box

W = Width H = Height D = Depth MC = Mounting Center

OW1040 / OW1042



OW1044 / OW1046



Abbreviation Key

• Indicated Finish or Option is not available with **XPS**

Source (voltage)

LED sources are 85CRI typical, within 4-step MacAdam

Specify Voltage or MVOLT
MVOLT fixture accepts 120 through 277 input voltage

• LCW	Cool White, 4000K, LED	(MVOLT)
LNW	Neutral White, 3500K, LED	(MVOLT)
• LWW	Warm White, 3000K, LED	(MVOLT)
QF13	13w quad, 4-pin G24q-1 base, FLR	(MVOLT; 347V)
QF26	26w quad, 4-pin G24q-3 base, FLR	(MVOLT; 347V)
N40	40w MAX A-19, medium screw base	(120V)
N60	60w MAX A-19, medium screw base (can be listed at lower wattage)	(120V)

Finishes (see inside back cover)

(Painted)	**Color Code Required** - see color chart
• VG	Verdigris Patina over Copper

Options

REM	Remote emergency battery pack for fluorescent; rated for dry location, 32° F / 0° C minimum, not available with 347V
XPS	Express 10 day shipping

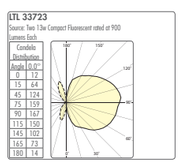
Photometrics and 3D Modeling

Complete BIM, Sketchup, and Photometric files for these models can be downloaded from www.visalighting.com

IES File Number	LER	Report
OW1040-2QF13	32	33723
OW1040-2N40	9	
OW1044-2QF13	32	33723
OW1044-2N40	9	

LTL 33723
Source: Two 13w Compact Fluorescent rated at 900 Lumens Each

Candela Distribution	
Angle	0-0°
0	12
15	64
45	124
75	159
90	167
115	150
145	107
165	73
180	14



Nominal LED Source / Fixture Wattage

900 Lumens	10 / 12
2000 Lumens	23 / 27

VISA LIGHTING
An Oldenburg Group Company

800-788-VISA
www.visalighting.com

Upgrade Decorative Fixtures

Option 2

D130 LED LUMINAIRE

U.12.3.13

Description
Lighting for exterior retail, commercial and hospitality environments.
The D130 consists of a decorative globe combined with a contemporary cast aluminum fitter.

LED Luminaire
Multiple LED systems available with convection cooled driver, options for intensity, distribution and color. They operate with over voltage and short circuit protection and automatic voltage sensing for 120 to 277v input. (See next page for LED availability)
- 50,000+ hours of operational life
- Warm 3000K, neutral 4000K, or cool white 5000K color
- Dimmable (controller by others)
- Suitable for wet locations

Installation
The luminaire will mount to a 3" OD post or tenon with black oxide coated stainless steel set screws to ensure a solid connection.

Diffuser choices
- White Acrylic (**ACN-WH**)
- Clear Acrylic (**ACN-CL**)
- Bronze Acrylic (**ACN-BR**)
- White Polycarbonate (**PCN-WH**)
- Clear Polycarbonate (**PCN-CL**)
- Bronze Polycarbonate (**PCN-BR**)

Finish
Premium quality thermoset polyester powdercoat for a durable finish in the following:

Standard:
BLK - Satin Black
CLB - Classic Bronze
GRN - Green
TBK - Textured Black

Premium:
ATC - Antique Copper
GTG - Granite Green
WHT - White

D130/G16/ST
EPA: 1.13

D130/G18
EPA: 1.35

D130/G20
EPA: 1.58

Ordering Information:

Model	Diffuser	Diffuser Material-Color	LED System	Light Distribution	Order Code	Finish	Option
D130	G16 G18 G20	ACN-WH ACN-CL ACN-BR PCN-WH PCN-CL PCN-BR	AVI LSK VLE	AS SY	3H,4H,5H 3L,4L,5L	ATC,BLK CLB,GRN GTG,TBK WHT	PCL-EL ST16 ST18
			LSG	Symmetric	30L,35L,40L		

See next page for more complete ordering options

D130
LED

PROJECT:

TYPE:

Electrostatic sensitive device.
observe precautions for handling

10 year limited warranty
AMERLUX LED

Part String

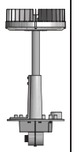
Example: **D130/G18ACN-WH/LSK-SY-3H/BLK**

800.364.0098 • Fax: 281.997.5441 • www.amerluxexterior.com

Amerlux reserves the right to change details that do not affect overall function and performance.

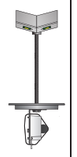
amerlux

LED Options (bold indicates ordering code)



LED System	Light Distribution	Code	CCT	CRI	Light Engine Lumens	Nominal Input Power
AVI	SY (Symmetric)	3H	3,000K	80	4,450 lm	57W
		4H	4,000K	80	5,100 lm	
		5H	5,000K	70	5,870 lm	
	AS (Asymmetric)	3H	3,000K	80	4,410 lm	
		4H	4,000K	80	5,050 lm	
		5H	5,000K	70	5,810 lm	
	SY	3L	3,000K	80	2,940 lm	41W
		4L	4,000K	80	3,460 lm	
		5L	5,000K	70	4,070 lm	
	AS	3L	3,000K	80	2,910 lm	
		4L	4,000K	80	3,420 lm	
		5L	5,000K	70	4,030 lm	

Example: **D130/AVI-SY-3H/BLK**



LED System	Light Distribution	Code	CCT	CRI	Light Engine Lumens	Nominal Input Power	Dimmable
LSK	SY (Symmetric)	3H	3,000K	80	4,300 lm	60W	0-10V
		4H	4,000K	80	4,500 lm		
		5H	5,000K	70	4,800 lm		
	AS (Asymmetric)	3H	3,000K	80	3,200 lm	45W	0-10V
		4H	4,000K	80	3,400 lm		
		5H	5,000K	70	3,600 lm		
	SY	3L	3,000K	80	3,000 lm	40W	0-10V
		4L	4,000K	80	3,300 lm		
		5L	5,000K	70	3,600 lm		
	AS	3L	3,000K	80	2,200 lm	30W	ELV 120V only
		4L	4,000K	80	2,500 lm		
		5L	5,000K	70	2,700 lm		

Example: **D130/LSK-SY-3H/BLK**

LED System	Light Distribution	Order Code	CCT	CRI	Light Engine Lumens	Nominal Input Power	Dimmable
VLE	SY (Symmetric)	3H	3,000K	80	5,600 lm	80W	0-10V
		4H	4,000K	80	5,700 lm		
		5H	5,000K	70	6,000 lm		
	AS (Asymmetric)	3H	3,000K	80	4,200 lm	60W	
		4H	4,000K	80	4,300 lm		
		5H	5,000K	70	4,500 lm		
	SY	3L	3,000K	80	3,000 lm	40W	
		4L	4,000K	80	3,300 lm		
		5L	5,000K	70	3,600 lm		
	AS	3L	3,000K	80	2,200 lm	30W	
		4L	4,000K	80	2,500 lm		
		5L	5,000K	70	2,800 lm		

Example: **D130/VLE-SY-3H/BLK**

LED System	Code	CCT	CRI	Light Engine Lumens	Light Distribution	Nominal Input Power	Dimmable
LSG	30L	3,000K	80	820 lm	T5	22W	ELV 120V only
	35L	3,500K	80	840 lm			
	40L	4,000K	80	980 lm			

Example: **D130/LSG-30L-BLK**

Upgrade Accent Lights

DELTA STAR™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example - DS - LED - e22 - SP - A7 - BZW - 12 - 11 - A - 360SL

Material
- **Blank** - Aluminum
- **B** - Brass
- **S** - Stainless Steel

Series
- **DS** - Delta Star™

Source
- **LED** - **'e'** Technology with Integral Dimming Driver (25W min. load when dimmed) **Requires magnetic Low Voltage dimmer*

LED Type
- **e36** - 8WLED/2.7K
- **e22** - 8WLED/3K
- **e23** - 8WLED/4K
- **e27** - 8WLED/Amber

Optics*
- **NSP** - Narrow Spot (Red Indicator)
- **SP** - Spot (Green Indicator)
- **MFL** - Medium Flood (Yellow Indicator)
- **WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** *(Choose factory setting)*

A9 (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**

***Please see Adjust-e-Lume® photometry to determine desired intensity.*

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU *Interior use only.*

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	*Also available in RAL Finishes See submittal SUB-1439-00*	

Lens Type
- **12** - Soft Focus Lens
- **13** - Rectilinear Lens

Shielding
- **11** - Honeycomb Baffle

Cap Style
- **A** - 45°
- **B** - 90°
- **D** - 45° less Weep Hole *(Interior Use Only)*
- **E** - 90° less Weep Hole *(Interior Use Only)*

Option
- **360SL** - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	Magnetic Low Voltage Dimmer	-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE 1-8-14	DRAWING NUMBER SUB000930

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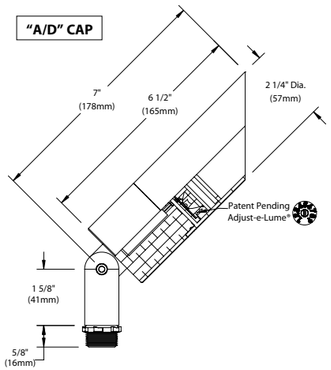
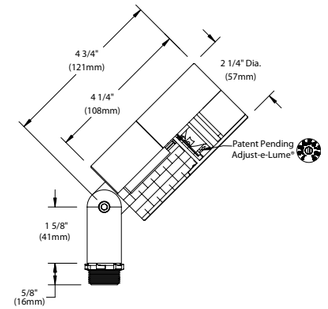
DELTA STAR™

PROJECT:	
TYPE:	

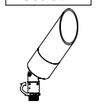
"A/D" CAP



"B/E" CAP



360 SL™

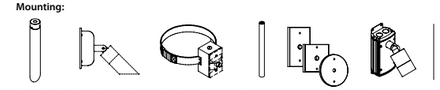


Horizontal Rotation
(Optional 360SL™ Knuckle)

Accessories *(Configure separately)*

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Mounting:



Remote Transformers:

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap
Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), or 1" deep bezel with 90° cutoff ('B' or 'E') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Remote Transformer
For use with 12VAC BKSSL remote transformer.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.

**Teflon is a registered trademark of DuPont Corporation.*
**Energy Star is a registered trademark of the United States Environmental Protection Agency.*

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE 1-8-14	DRAWING NUMBER SUB000930

Architectural Wall Mount

EL CAPITAN™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

	EC	LED									
Example	- EC	- LED	- e22	- SP	- A7	- BLW	- 12	- 11	- B		

Material
- **Blank** - Aluminum
- **B** - Brass
- **S** - Stainless Steel

Series
- **EC** - El Capitan™ Series

Source
- **'e'** - Technology with Integral Dimming Driver (25W min. load when dimmed) **Requires magnetic Low Voltage dimmer*

LED Type
- **e36** - 8WLED/2.7K
- **e22** - 8WLED/3K
- **e23** - 8WLED/4K
- **e27** - 8WLED/Amber

Optics*
- **NSP** - Narrow Spot (Red Indicator)
- **SP** - Spot (Green Indicator)
- **MFL** - Medium Flood (Yellow Indicator)
- **WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** *(Choose factory setting)*
- **A9** (Standard), **A8, A7, A6, A5, A4, A3, A2, A1**

***Please see Adjust-e-Lume® photometry to determine desired intensity.*

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU *Interior use only.*

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	*Also available in RAL Finishes See submittal SUB-1439-00*	

Lens Type
- **12** - Soft Focus Lens
- **13** - Rectilinear Lens

Shielding
- **11** - Honeycomb Baffle

Cap Style
- **A** - 45°
- **B** - 90°
- **C** - Flush
- **D** - 45° Less weephole
- **E** - 90° Less weephole

DRIVER DATA

Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	Magnetic Low Voltage Dimmer	-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE 1-8-14	DRAWING NUMBER SUB000942

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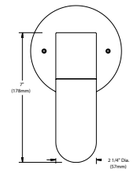
EL CAPITAN™

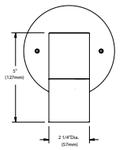
PROJECT:	
TYPE:	

FRONT VIEW

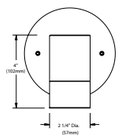
"A/D" CAP



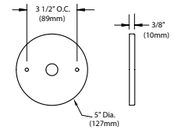
"B/E" CAP



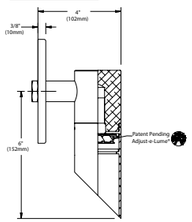
"C" CAP

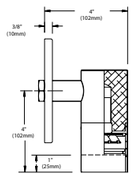


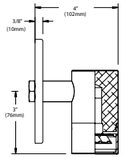
CANOPY DETAIL



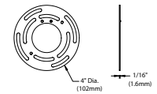
SIDE VIEW





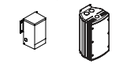


UNIVERSAL RING



Accessories *(Configure separately)*

Remote options:



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 316).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. High temperature, silicone 'O' Ring provides water-tight seal.

Cap
Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), 1° deep bezel with 90° cutoff ('B' or 'E'), or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Adjust-e-Lume® (Pat. Pending)
Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Installation
5" dia., machined canopy with stainless steel universal mounting ring permits mounting to 4" octagonal junction box (by others). Suitable for uplight or downlight installation.

Transformer
For use with 12VAC BKSSL remote transformer.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. Canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

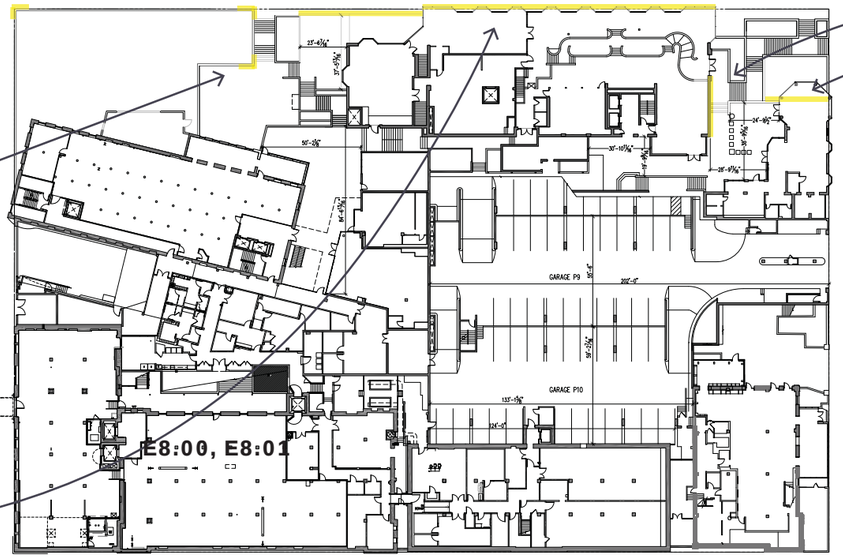
Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.

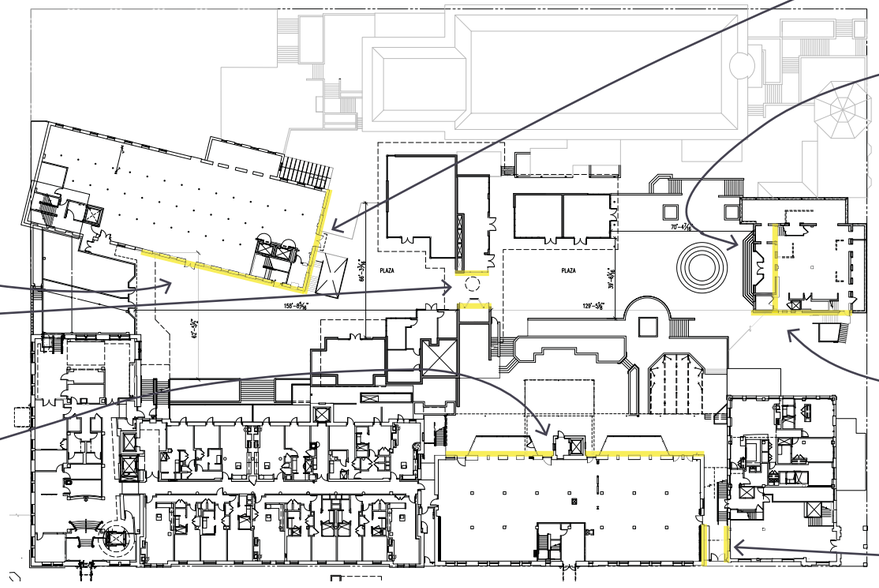
**Teflon is a registered trademark of DuPont Corporation.*
**Energy Star is a registered trademark of the United States Environmental Protection Agency.*

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE 1-8-14	DRAWING NUMBER SUB000942

POTENTIAL FACADE LIGHTING DIAGRAM - LEVEL 1



POTENTIAL FACADE LIGHTING DIAGRAM - LEVEL 2



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APPENDIX B

GHIRARDELLI SQUARE RENOVATION
WAYFINDING DESIGN AND LOCATION PLAN

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Ghirardelli
SQUARE

Wayfinding Graphics

City Resubmittal

December 3, 2015

WeidnerCA
Ross+Luthin Creative

GSQ

Ghirardelli SQUARE

Identity

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Akzidenz-Grotesk Std

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890

Copperplate Gothic Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz 1234567890

Adobe Caslon Pro Regular

Fonts

Paint

P 1
PMS 173C

P 2
Matthews
MP31846
Onyx

P 3
PMS 4625C

P 4
PMS 9064C

P 5
PMS 7534C

P 6
PMS 1245C

P 7
PMS 417C

Materials

M 1
Rowmark
Ash

M 2
Rowmark
Charcoal Gray

V 1
Arlon
Oyster

V 2
3M Matte Black

V 3
3M Olympic Blue

V 4
Reflective White

Colors

Table Of Contents

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to Brand the Built Environment©

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Consulting Designers

ROSS LUTHIN CREATIVE

creative@rossluthin.com
707.573.7359

Project:
Ghirardelli Square
900 North Point Street
San Francisco, CA 94105

Client:
Jamestown

- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
- ☐ Design Intent

Scale
N/A

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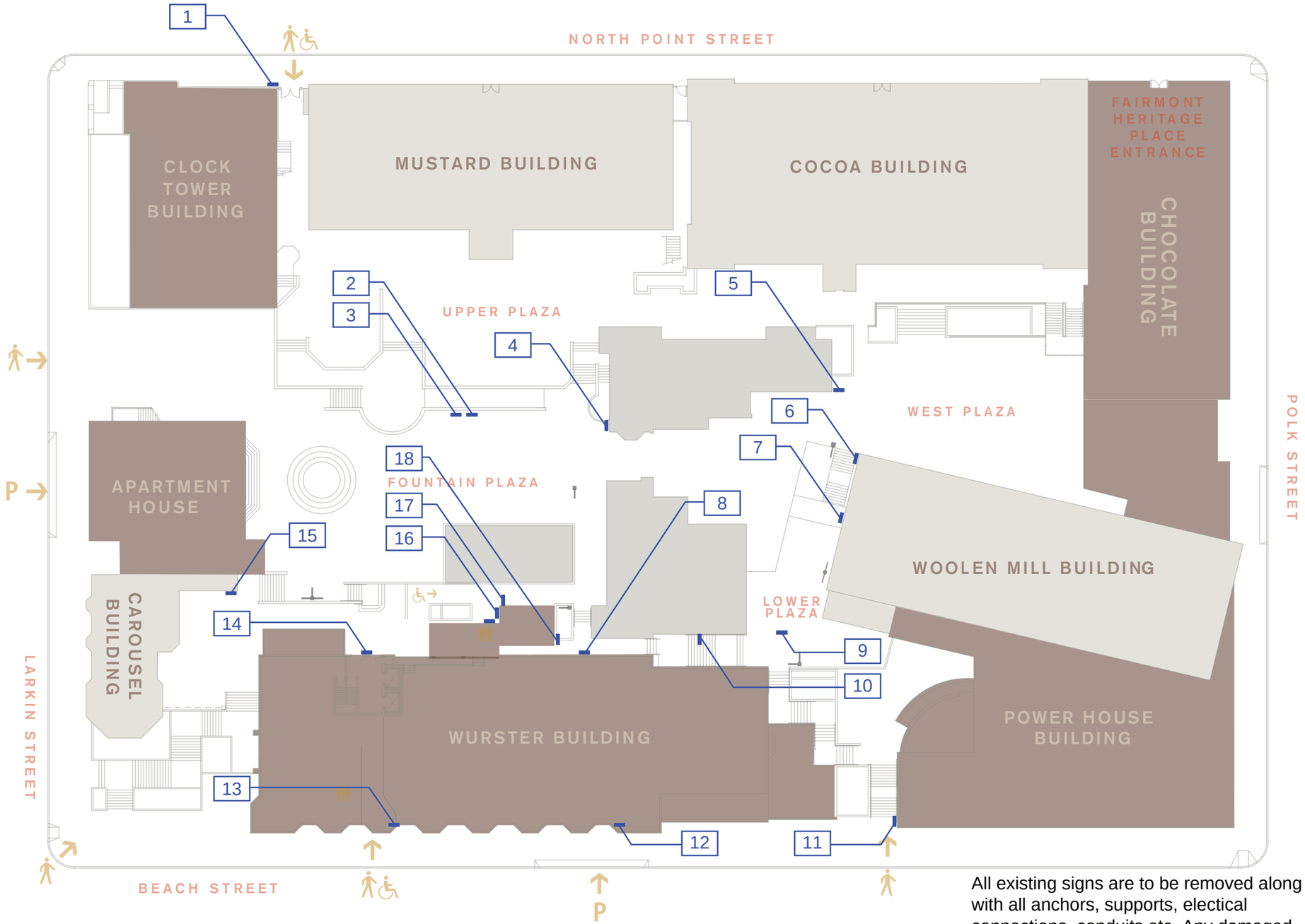
Interior Contents,
Colors & Fonts



All existing signs are to be removed along with all anchors, supports, electical connections, conduits etc. Any damaged surface shall be patched and repaired as needed.

See Pages SL.2.1, SL.2.2
for photo references

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- ☐ Design Devel. 50%

11.06.15 ■ City Submittal

- ☐ Design Intent

Scale
NTS

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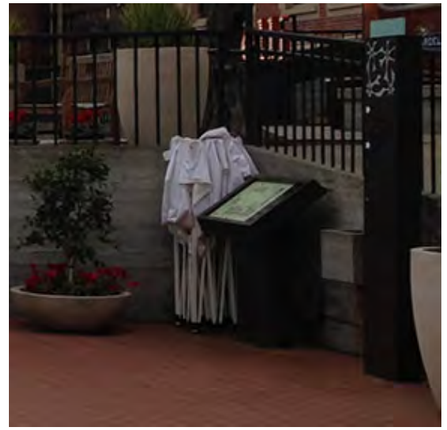
Existing Signs

Sign Location Plan
Wayfinding

1

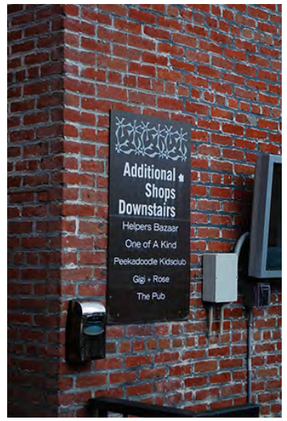
2



3

4

5



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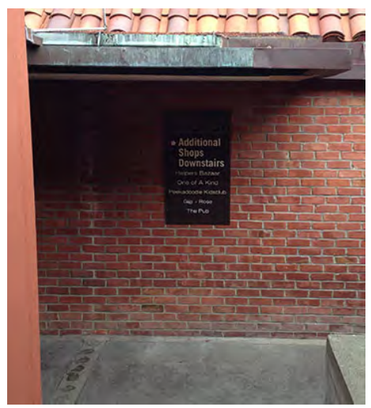

8

9

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Existing Signs

Sign Location Photo
References - Wayfinding

iii

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11

12

13

14

15

16

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18

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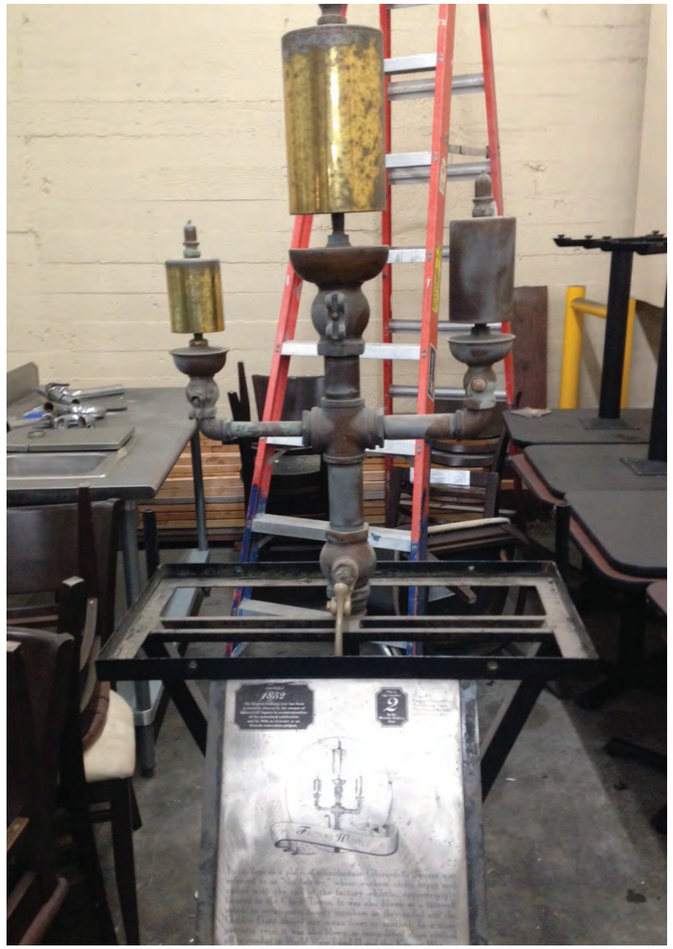
Existing Signs
Sign Location Photo
References - Wayfinding



Whistle to be displayed in public place.
Location TBD

Historic information to be incorporated into DK-Directory panels. Content and imagery to included as a separate submittal.

Historic information to be incorporated into DK-Directory panels. Content and imagery to included as a separate submittal.

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San Francisco, CA 94105

Client:
Jamestown

- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
- ☐ Design Intent

Scale
N/A

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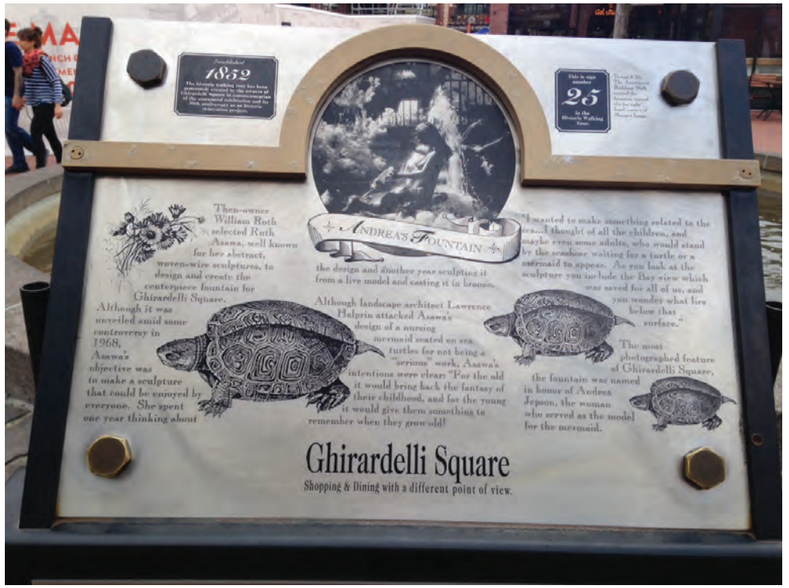
Existing Signs
Historic Inventory

V



Historic information to be incorporated into DK-Directory panels. Content and imagery to included as a separate submittal.

Grider to be displayed in a public location. Exact location TBD.

Historic information to be incorporated into DK-Directory panels. Content and imagery to included as a separate submittal.

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Client:
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- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
- ☐ Design Intent

Scale
N/A

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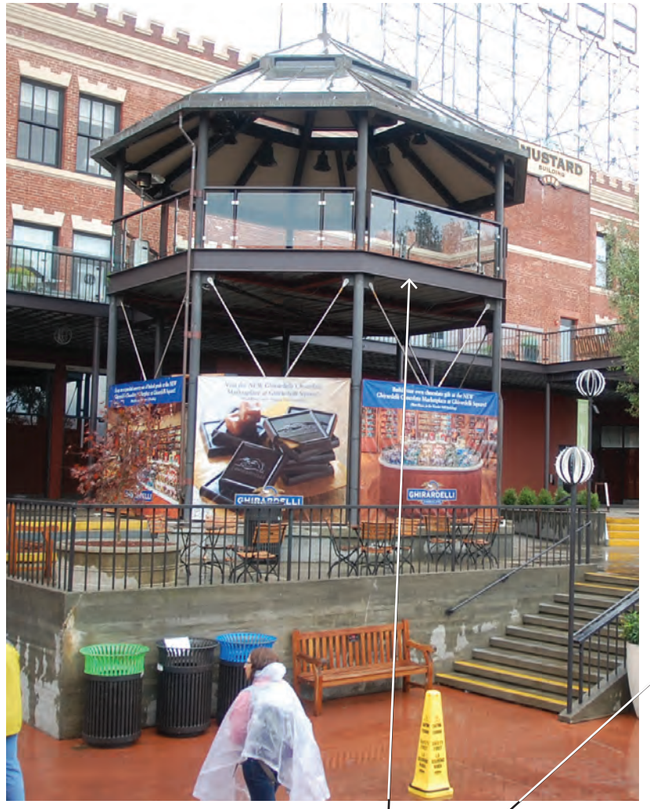
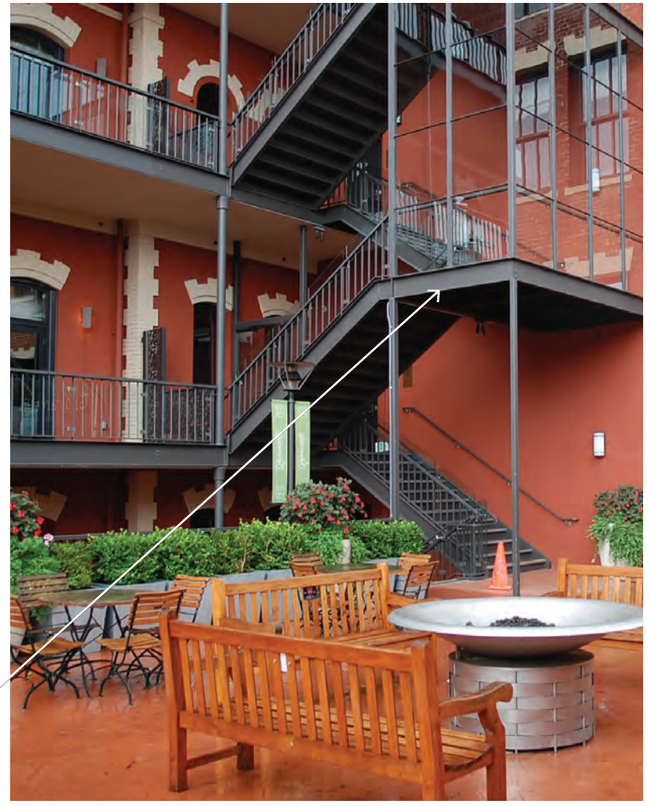
Existing Signs
Historic Inventory





"C" Channel and black iron detailing is prevalent support structure found in many locations onsite.

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- ☐ Design Devel. 100%

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Scale
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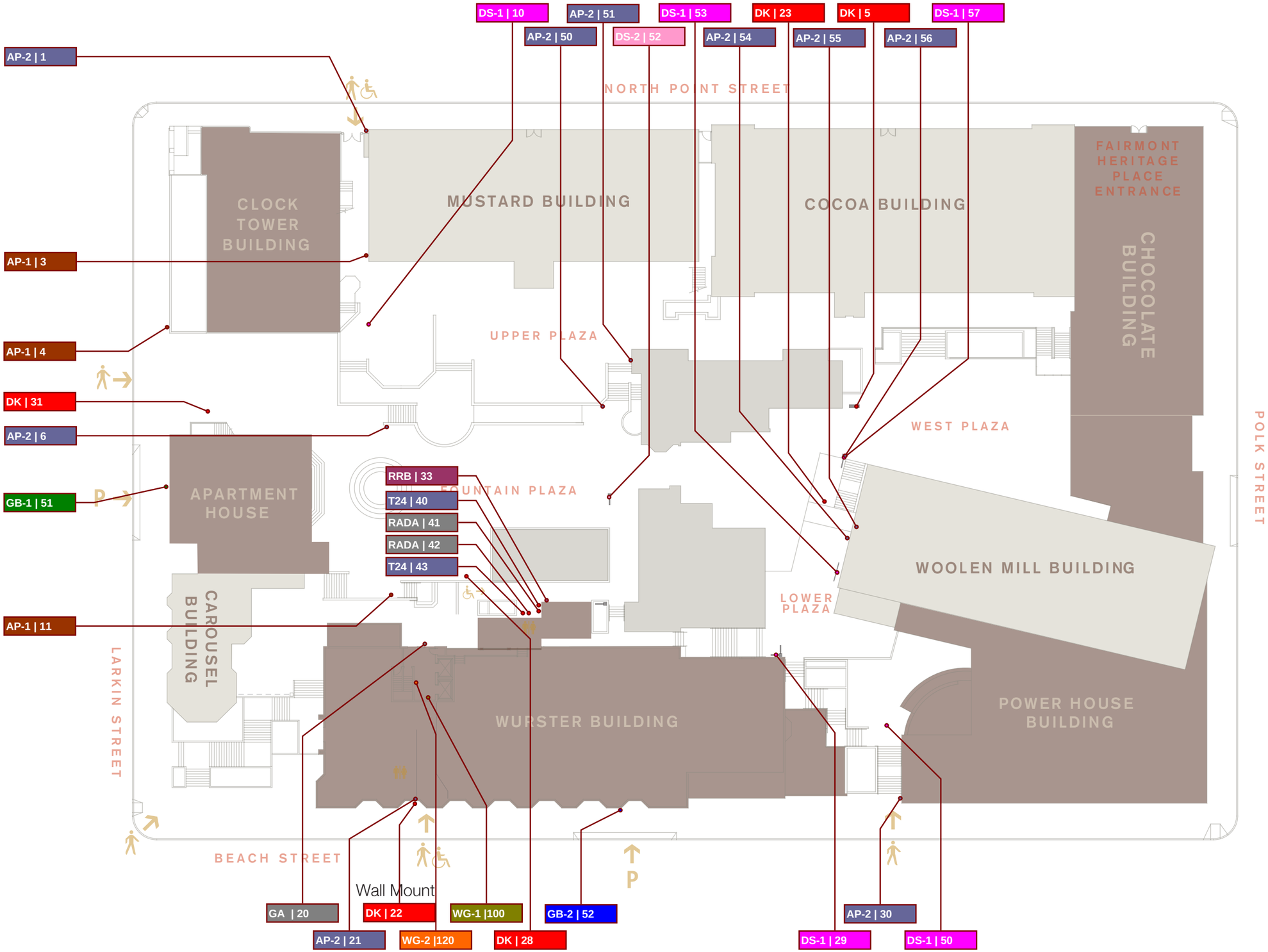
Material & Detail References



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Client:
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- ☐ Schematic Design
- ☐ Design Devel. 90%

10.27.15 ■ City Submittal

- ☐ Design Intent

Scale
NTS

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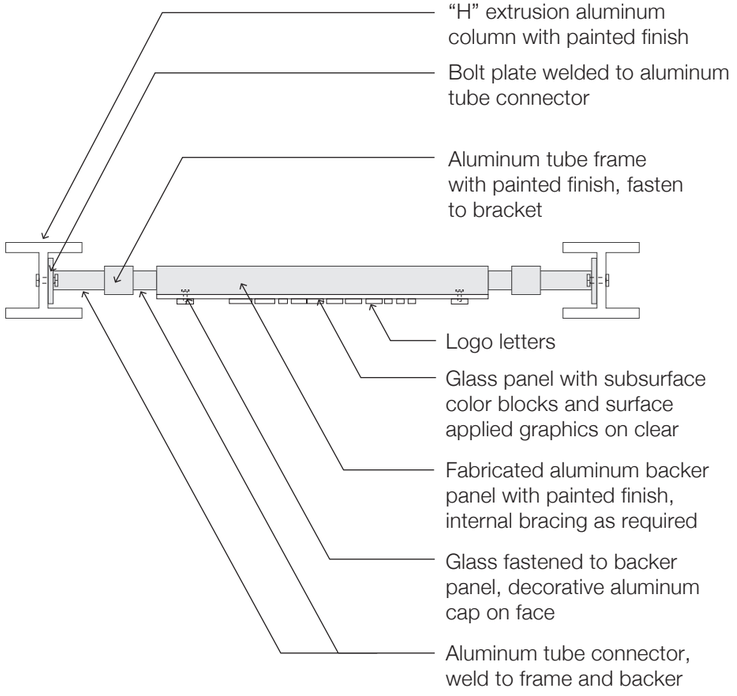
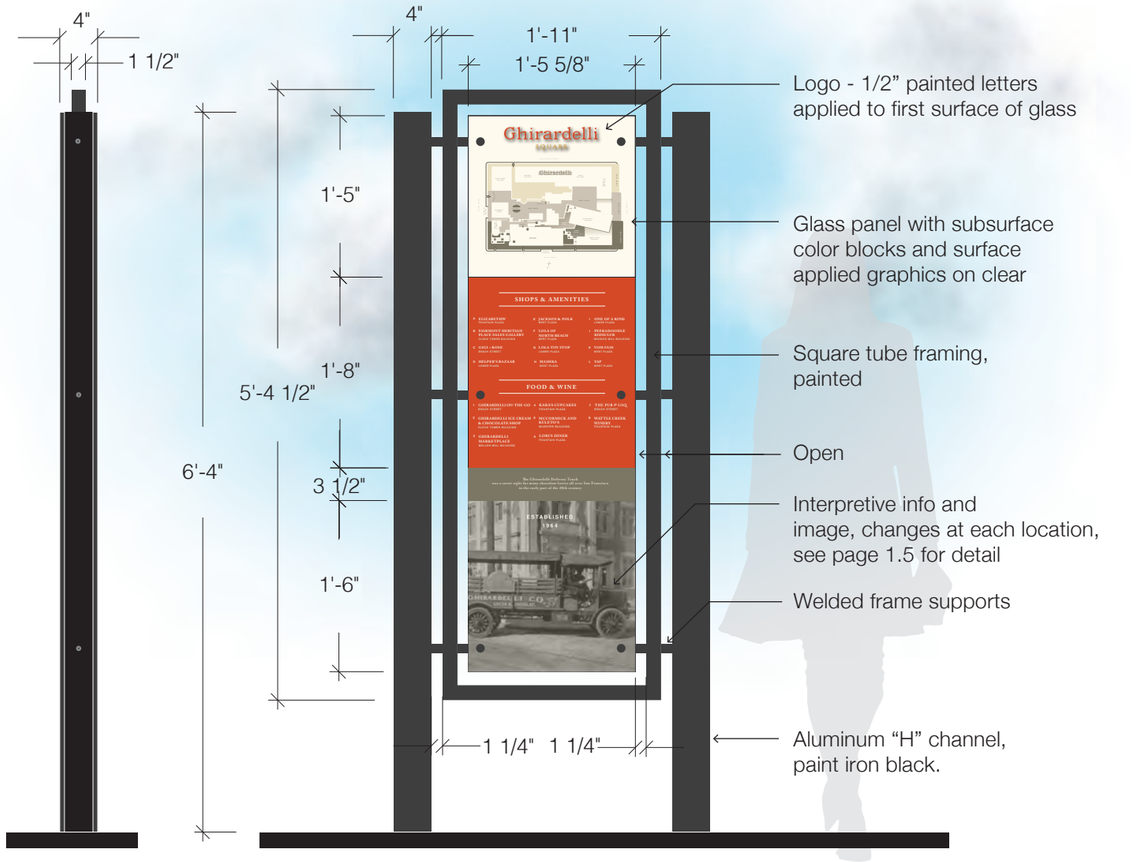
Sign Locations
Proposed Sign Locations

SL.1



Enlarged Section
1-1/2"=1'-0"



Side

Face

Note, DK-22 is wall mounted.
See page 1.4.

Details
3/4"=1'-0"

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707.573.7359

Project:
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900 North Point Street
San Francisco, CA 94105

Client:
Jamestown

12.01.15
- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 50%
- ■ City Submittal
- ☐ Design Intent

Scale
3/4"=1'-0"

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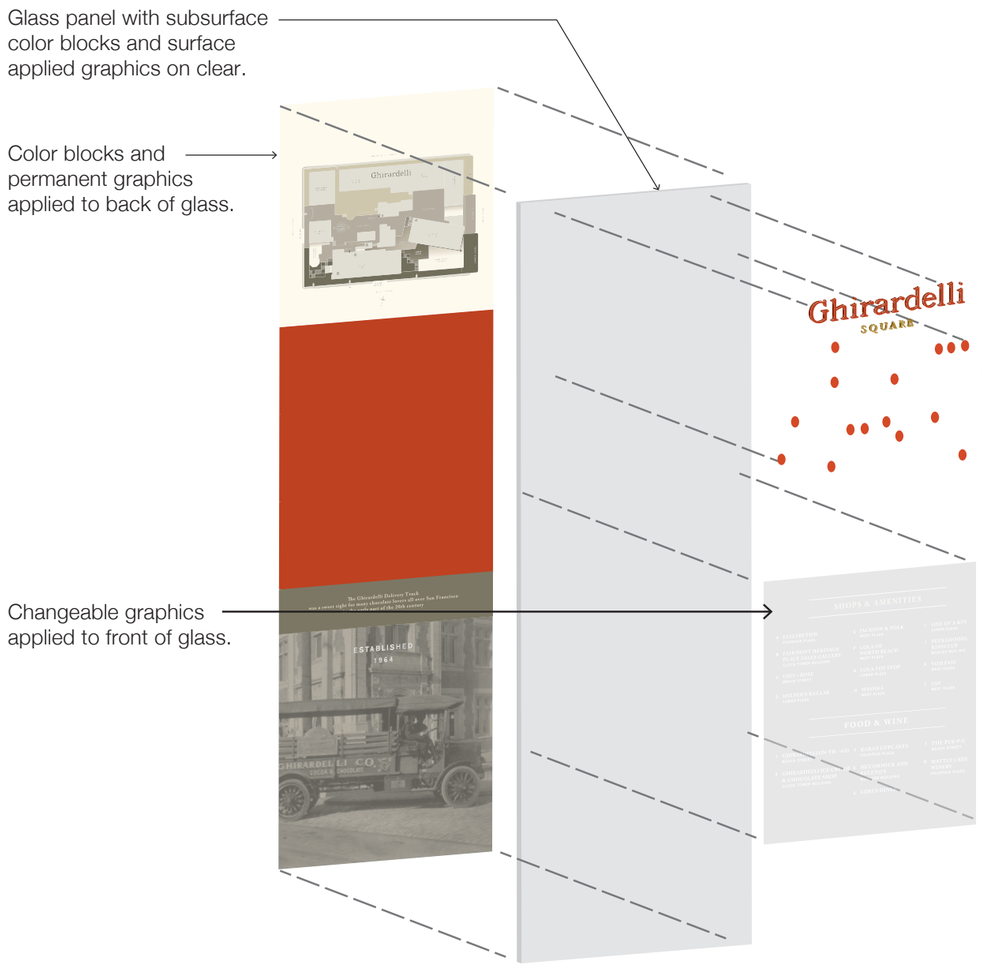
DK
Vertical Directory



Glass Panel Exploded View
NTS

3D Model
NTS

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11.06.15 ■ City Submittal

- ☐ Design Intent

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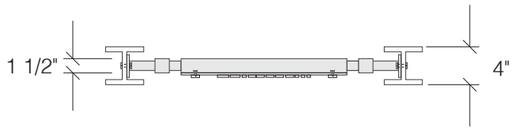
DK
Vertical Directory
3D Model

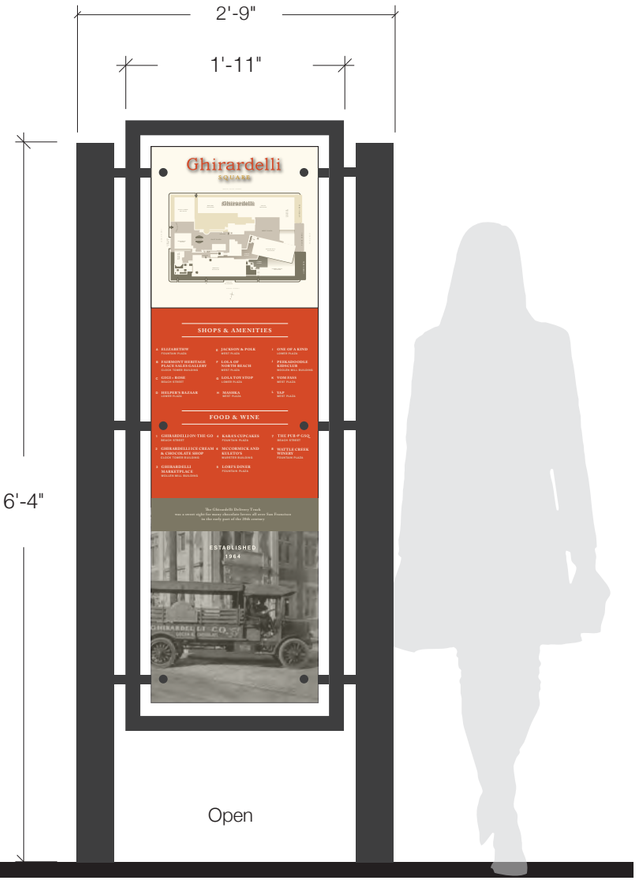
1.1

Plan



Plan

Previous Proposed



Revised Proposed

Comparison
3/4”=1’-0”

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Consulting Designers

ROSS LUTHIN CREATIVE

creative@rossluthin.com
707.573.7359

Project:
Ghirardelli Square
900 North Point Street
San Francisco, CA 94105

Client:
Jamestown

12.03.15

- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 50%
- ■ City Submittal
- ☐ Design Intent

Scale
3/4”=1’-0”

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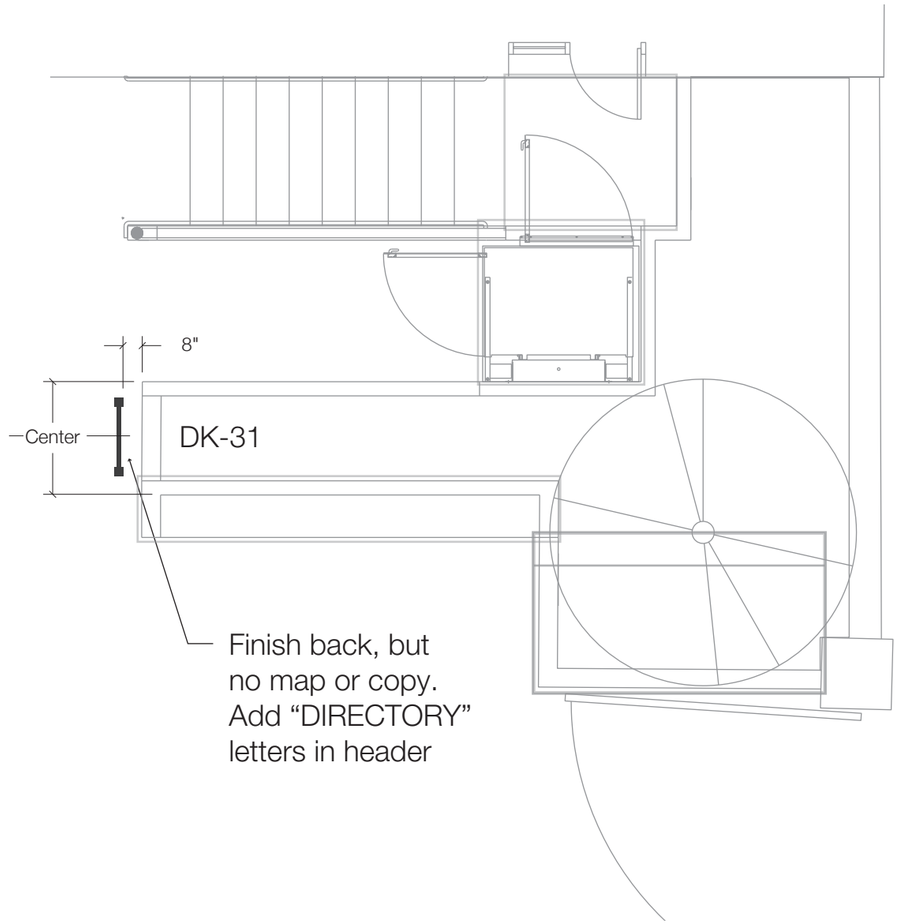
DK
Directory Comparison

1.2

N

DK-28 Location
3/16”=1’-0”



N

DK-31 Location
3/16”=1’-0”

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11.06.15
- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 50%
- ■ City Submittal
- ☐ Design Intent

Scale
As Noted

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DK
Location Details

1.3

Wall Mount
3/16”=1’-0”

DK-22 Location
3/16”=1’-0”

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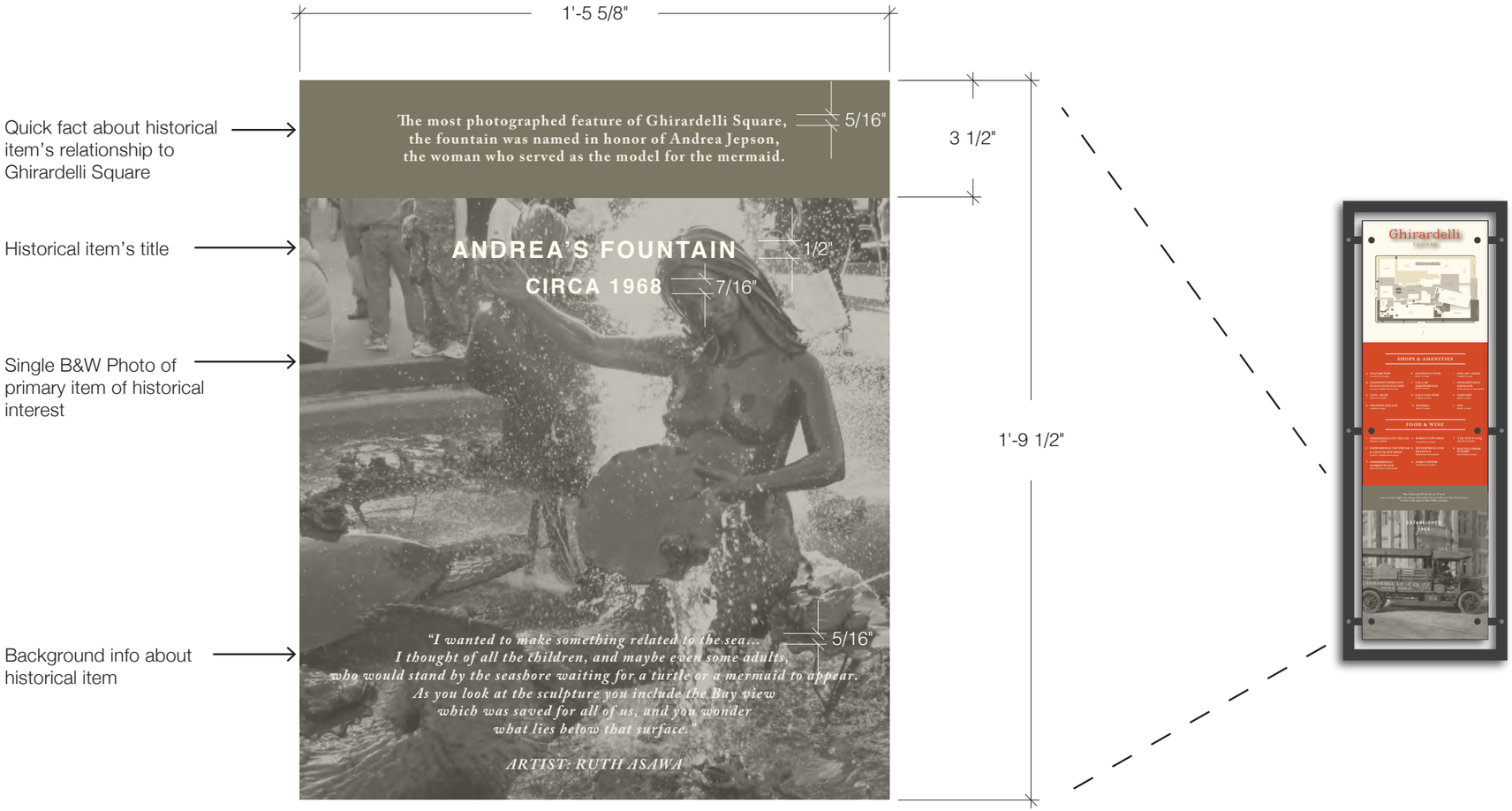
DK
Location Details
DK-1/22

1.4



Interpretive Panel Detail
3"=1'-0"

Each Directory will have a unique historical subject. Where there is crossover between location of exisiting interpretive panel and a new Directory, the new Directory will carry the historical information and the old panel will be removed.

When an existing interpretive panel is placed in an area where no new Directory is planned, the existing panel will remain until a new, overall interpretive plan is implemented. The new plan will be submitted to City Planning for review.

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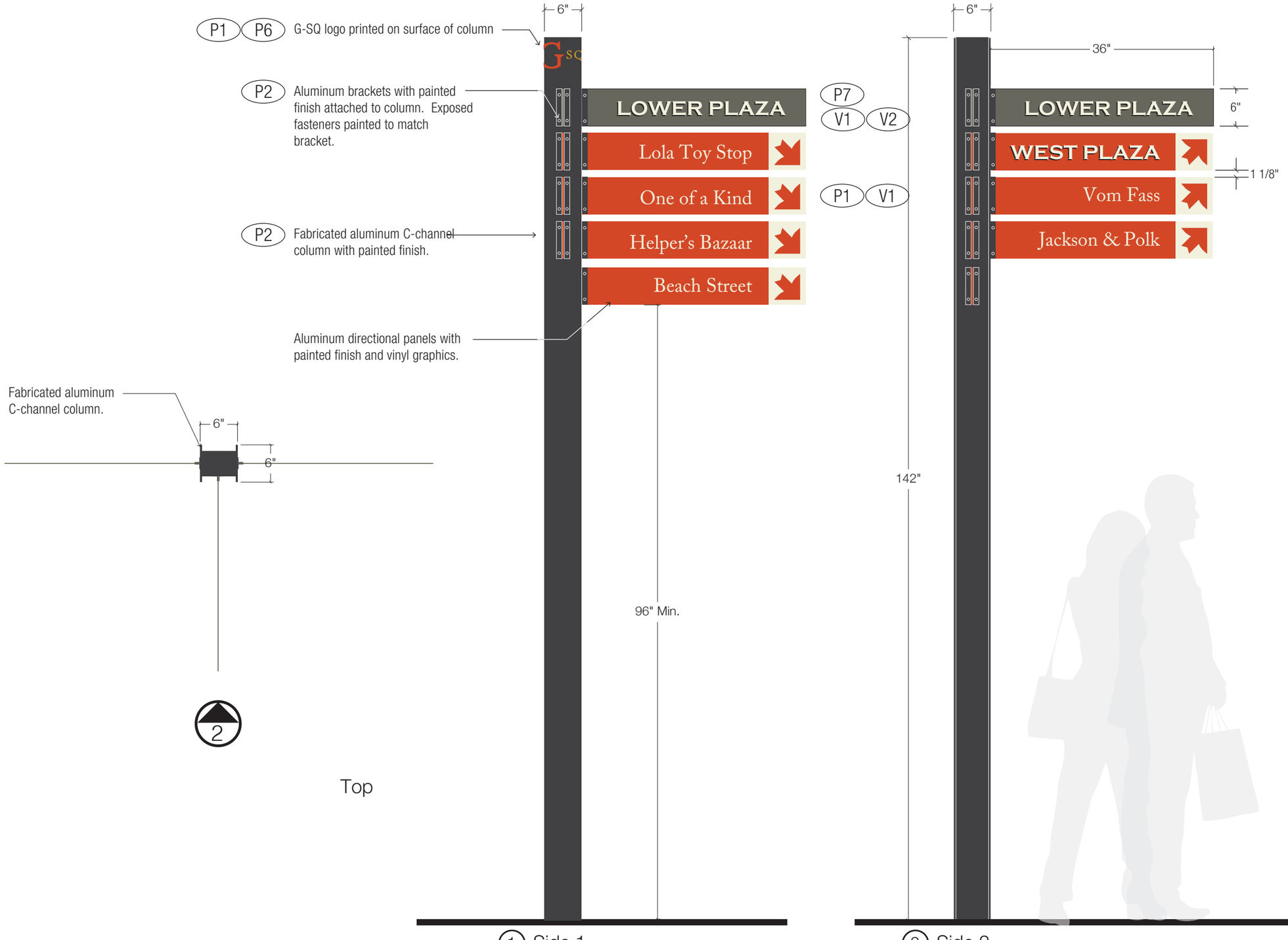
DK
Typical Interpretive Section Layout

1.5



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- ☐ Design Devel.100%
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Scale
3/4"=1'-0"

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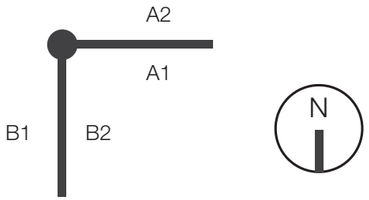
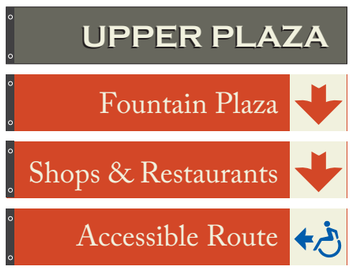
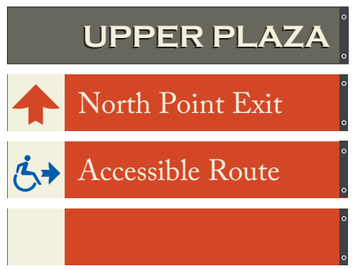
DS-1
Directional Sign
Primary

2.0





Side A1



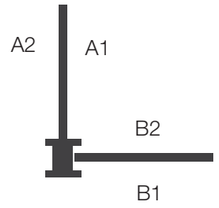
Side A2

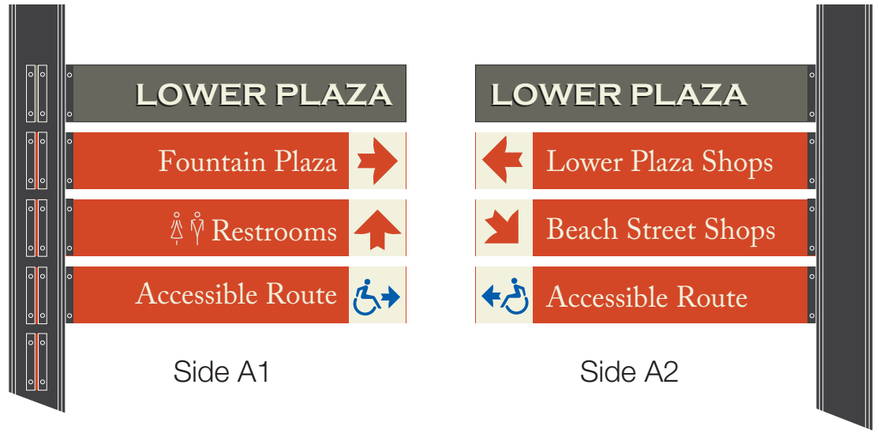
Side B1

Side B2

Note: sign panels attached to existing round steel columns this location.

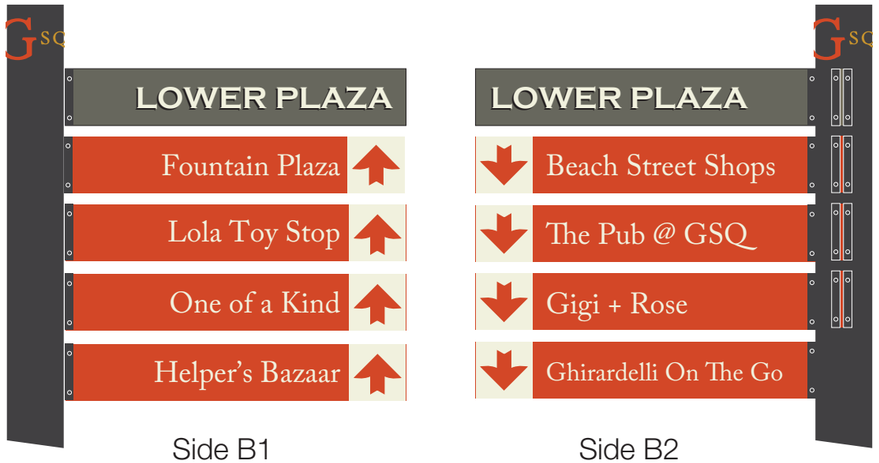
DS-1, 10





Side A1

Side A2



Side B1

Side B2

DS-1, 29

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- ☐ Schematic Design
- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
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Scale
3/4"=1'-0"

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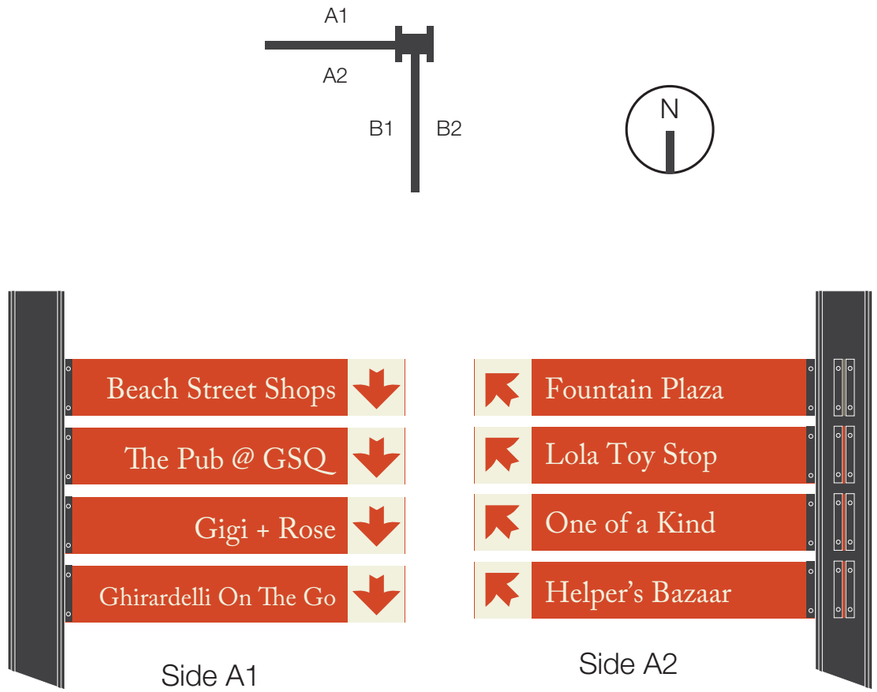
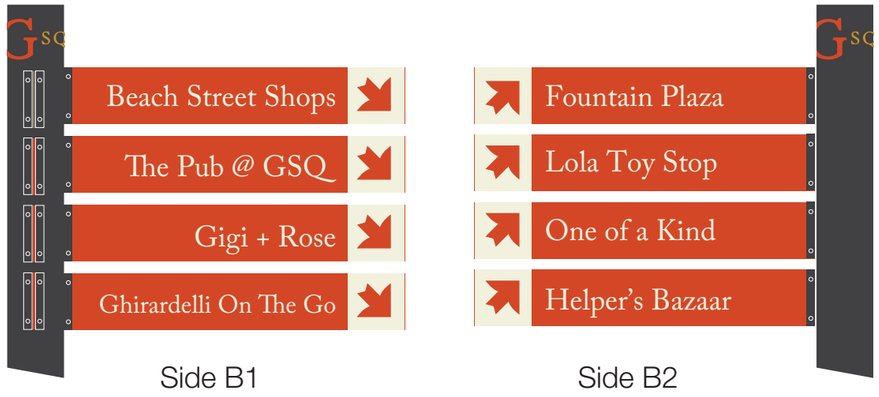
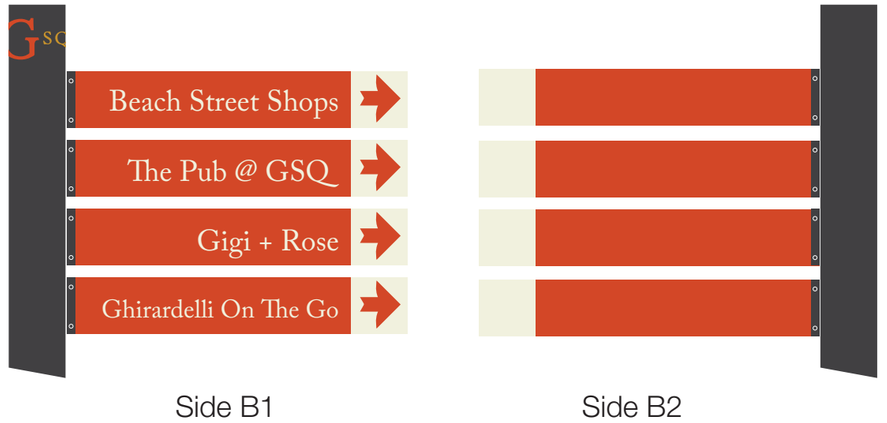
DS-1
Directional Sign
Layouts

2.1





DS-1, 50



DS-1, 53

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- ☐ Design Intent

Scale
3/4"=1'-0"

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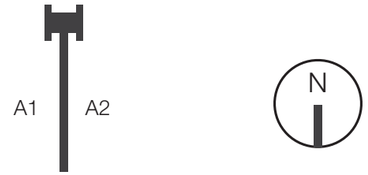
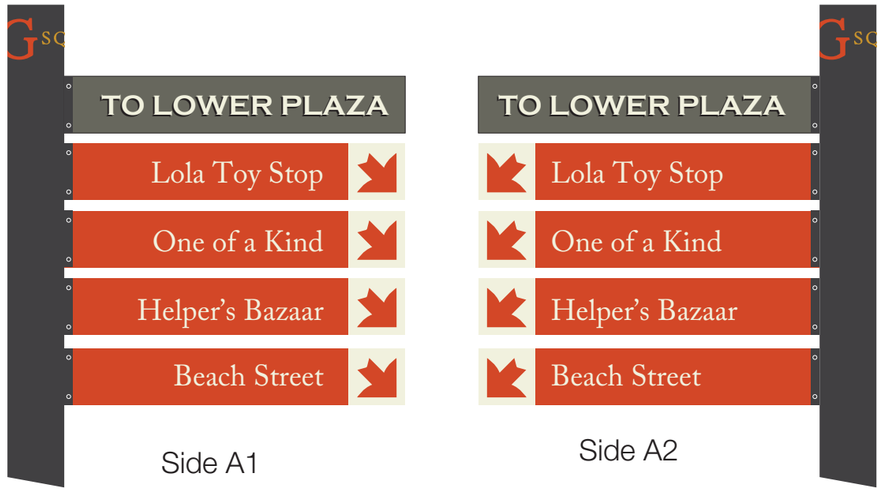
DS-1
Directional Sign
Layouts

2.2





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Scale
3/4"=1'-0"

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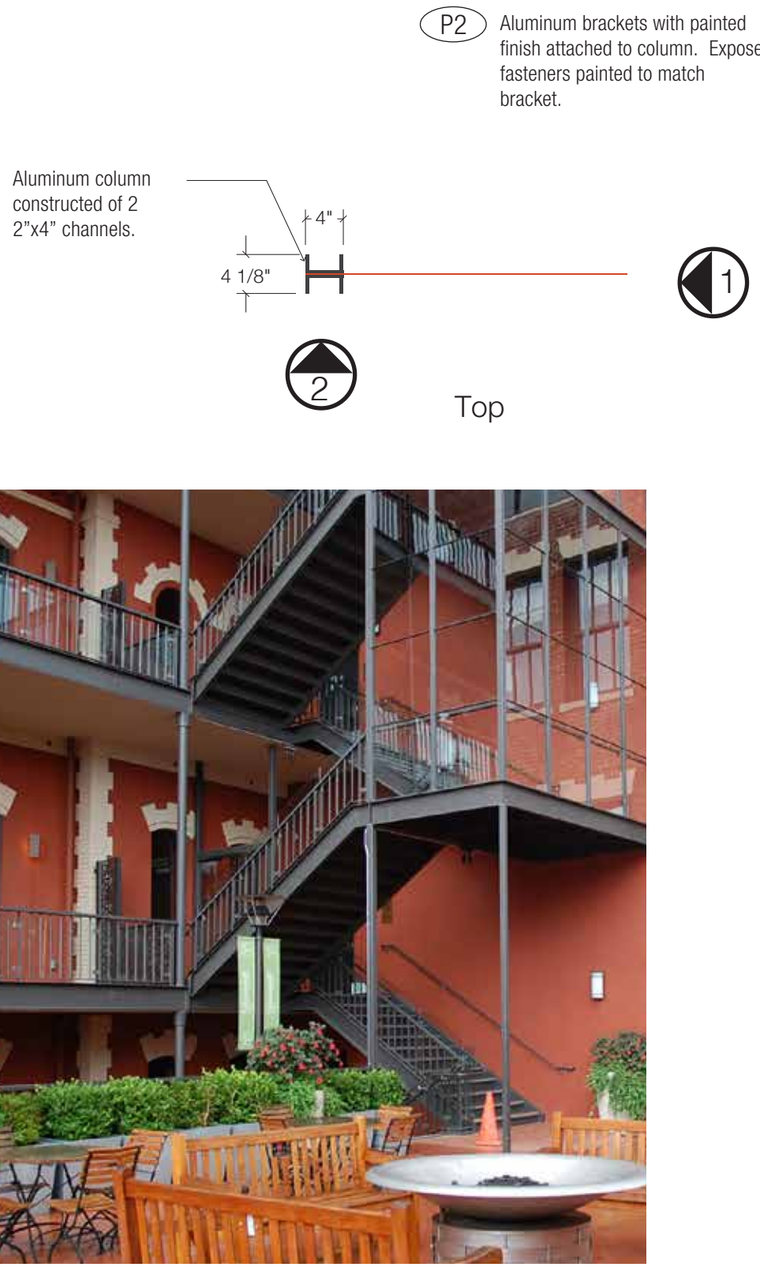
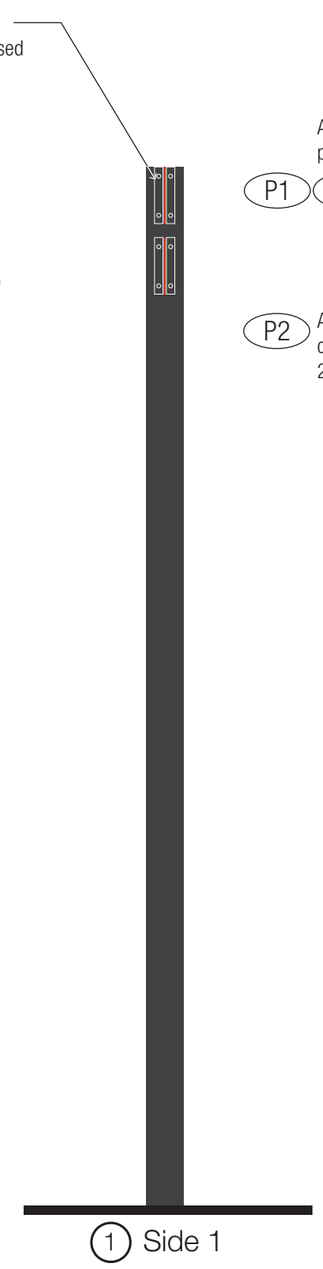
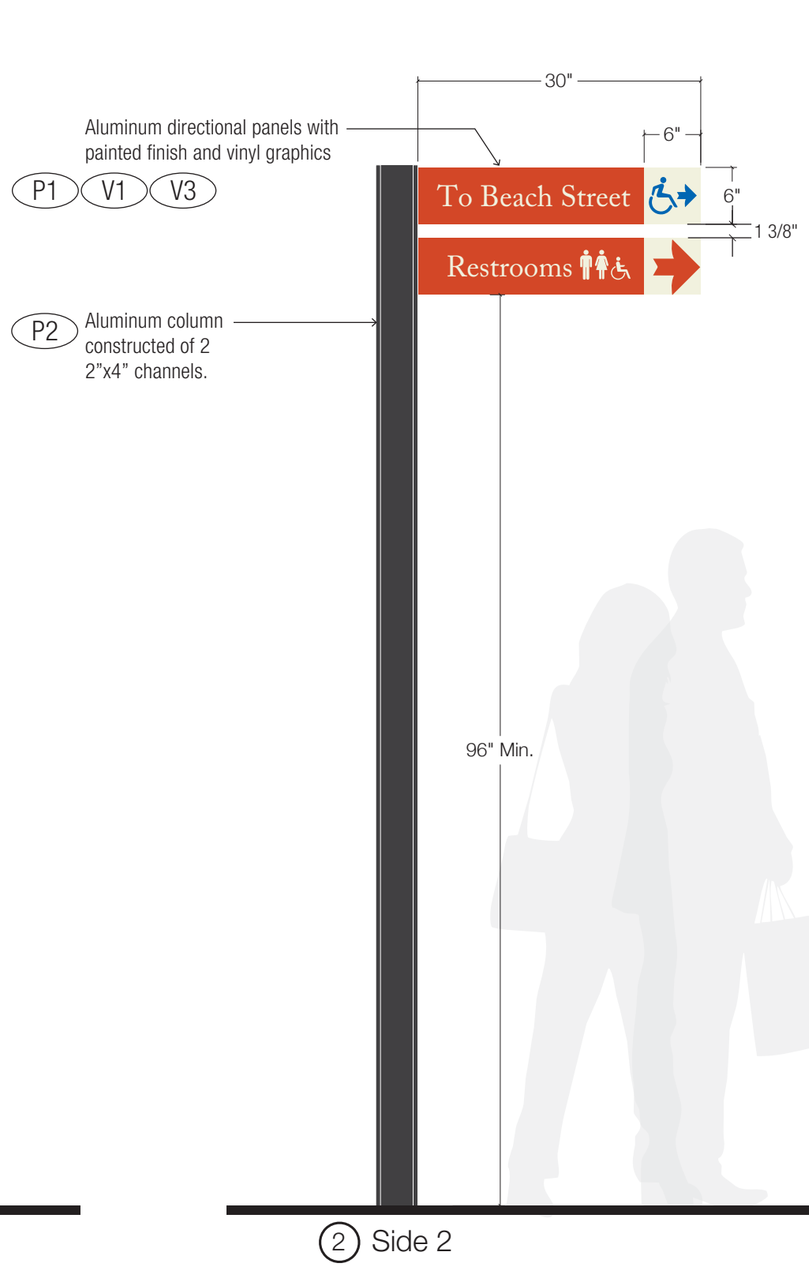
DS-1
Directional Sign
Layouts

2.3



Reference Photo of C-Channel Framing





Details
3/4”=1’-0”

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Scale
3/4”=1’-0”

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DS-2
Directional Sign
Secondary

3.0

Aluminum sign panel with
painted finish and vinyl graphics.
Clearcoat over all.

P1 P4 V1 V3

Mounts to walls and railings.
Finish back at railing installations.

P4

Front

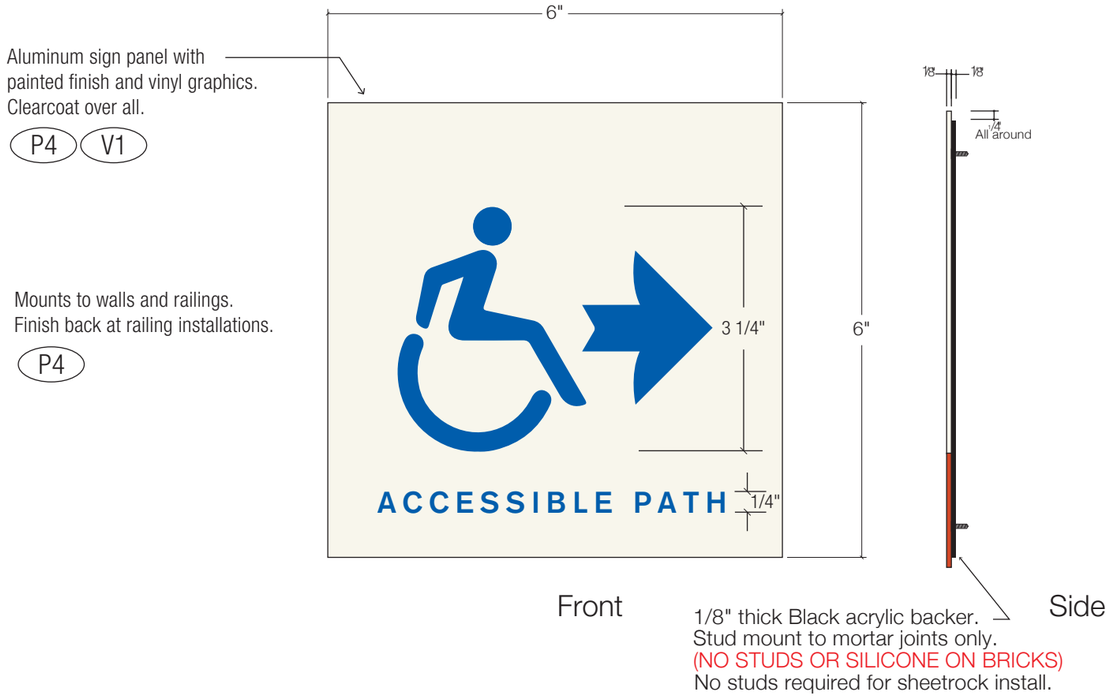
AP-1
3"=1'-0"

Aluminum sign panel with
painted finish and vinyl graphics.
Clearcoat over all.

P4 V1

Mounts to walls and railings.
Finish back at railing installations.

P4



Front

Side

1/8" thick Black acrylic backer.
Stud mount to mortar joints only.
(NO STUDS OR SILICONE ON BRICKS)
No studs required for sheetrock install.

AP-2
3"=1'-0"

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- ☐ Design Intent

Scale
6"=1'-0"

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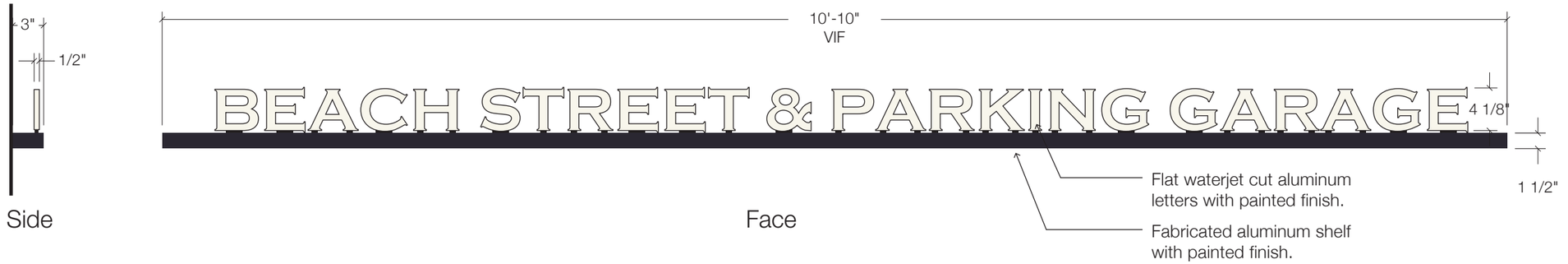
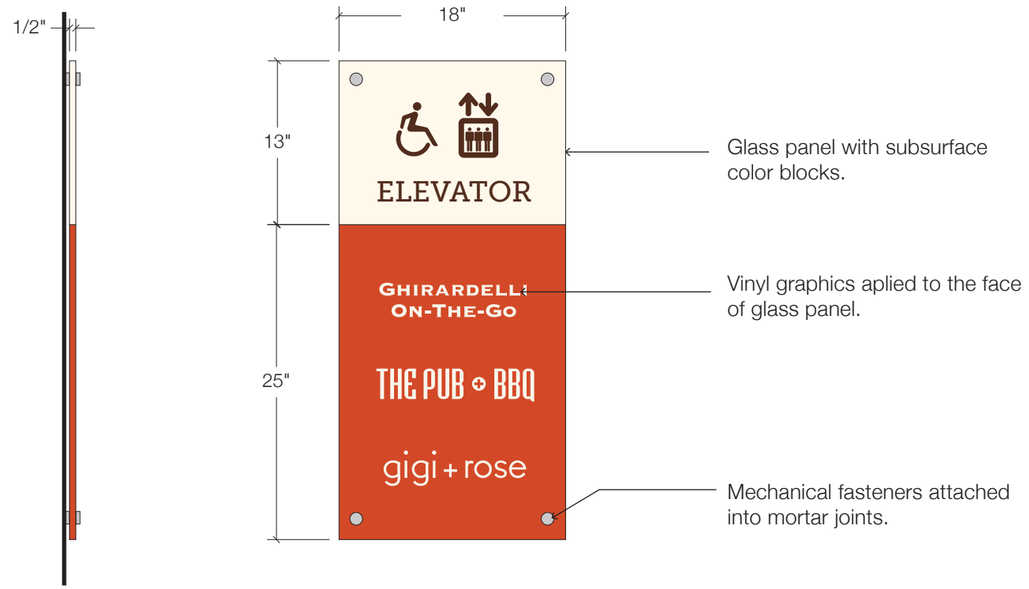
AP-1 & AP-2
Accessible Path

4.0



Header Details
1”=1’-0”



Panel Details
1”=1’-0”

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Scale
1”=1’-0”

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GA
Garage Access Details

5.1

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Scale
NTS

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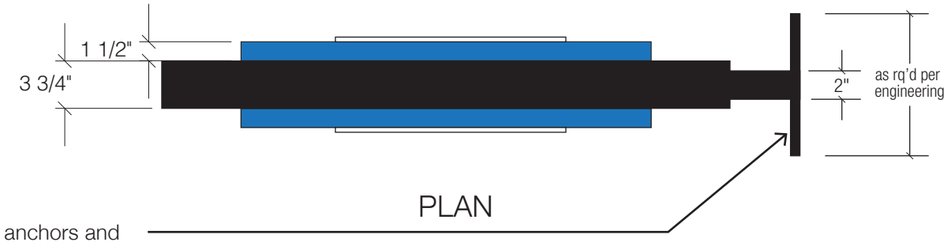
GA
Garage Access
Rendering

5.2

Existing

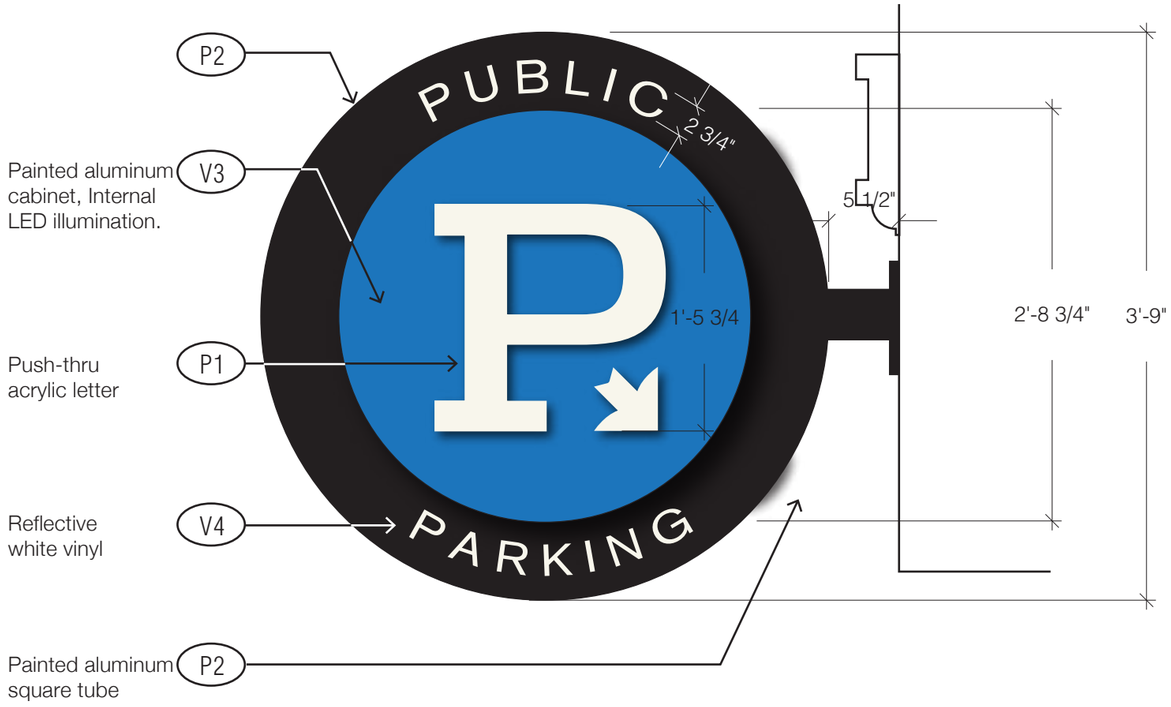
Larkin Entry Sign Placement

Photo Rendering
NTS



PLAN

Locate all anchors and connections in mortar joints.



FACE

GB-2 - Blade Sign Concept
1"=1'-0"

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- ☐ Schematic Design
- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
- ☐ Design Intent

Scale
1"=1'-0"

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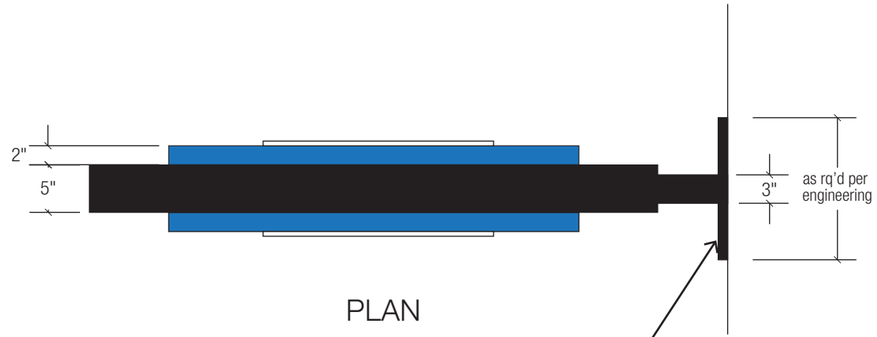
GB-1
Garage Entry Blade
Larkin Entry

6.1

Existing Sign

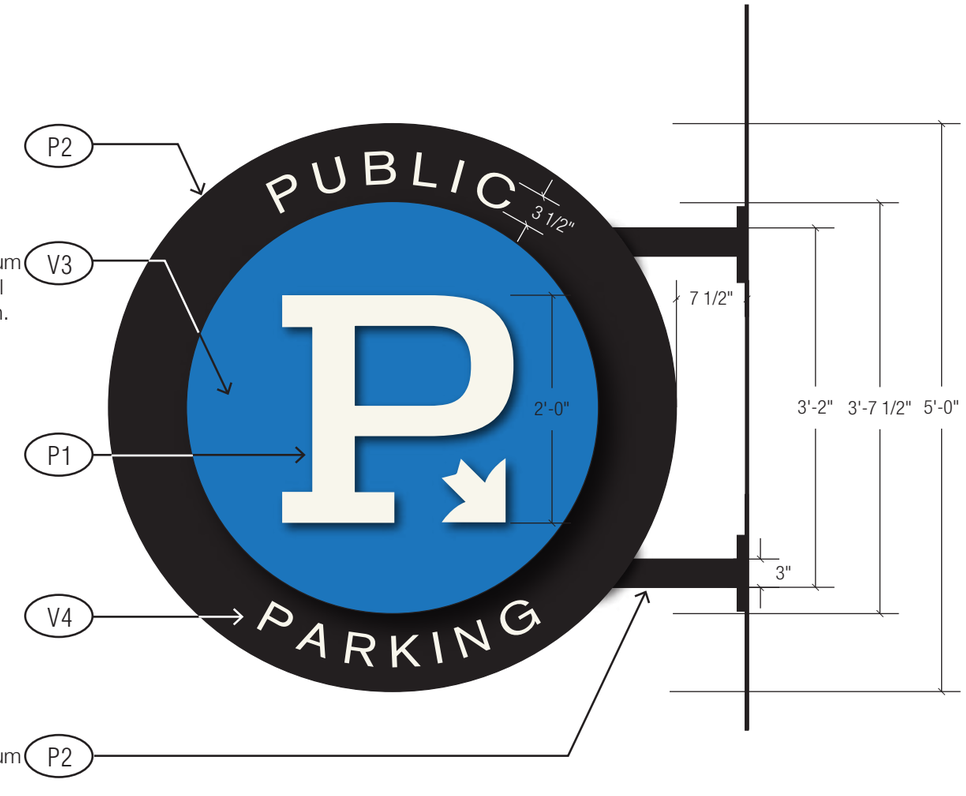
Beach St. Entry Sign Placement

Photo Rendering
NTS



PLAN

Locate all anchors and connections in mortar joints.



FACE

GB-2 - Blade Sign Concept
3/4"=1'-0"

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707.573.7359

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Ghirardelli Square
900 North Point Street
San Francisco, CA 94105

Client:
Jamestown

11.06.15
- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 100%
- ■ City Submittal
- ☐ Design Intent

Scale
3/4"=1'-0"

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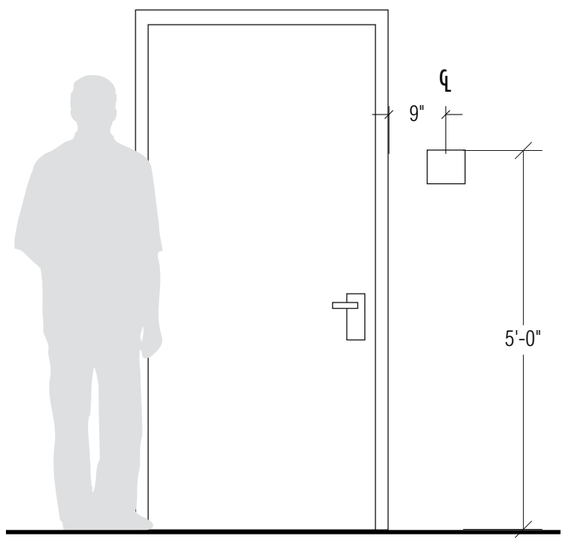
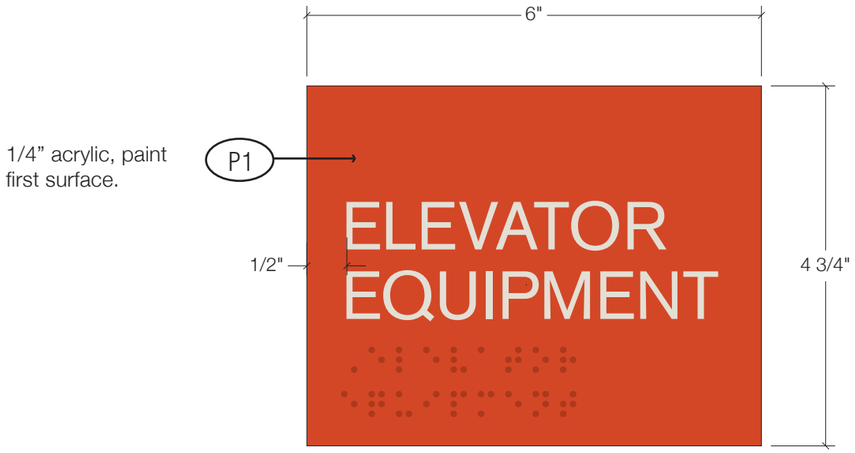
GB-2
Garage Entry Blade
Beach Street

6.2

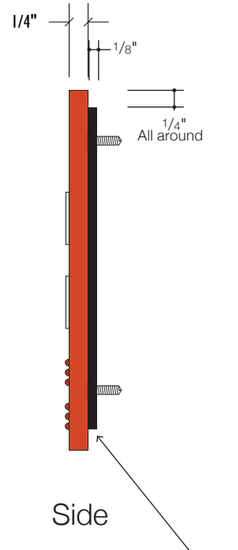


Install

1/2"=1'-0"

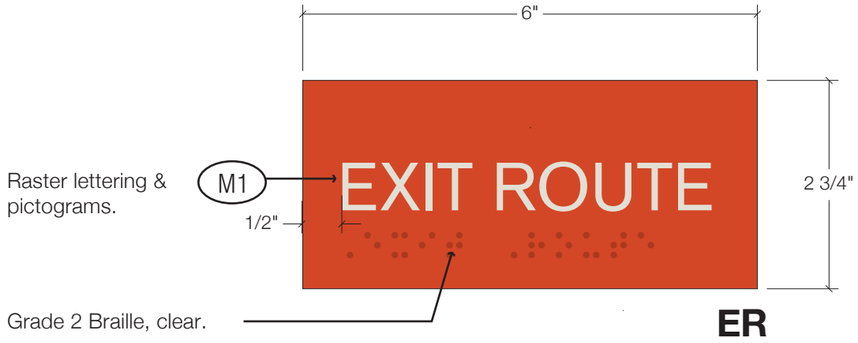


R1

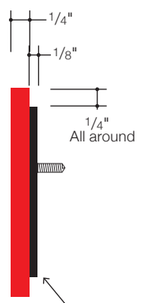


Side

1/8" thick Black acrylic backer.
Stud mount to mortar joints only,
(NO STUDS OR SILICONE ON BRICKS)
No studs required for sheetrock install.



ER



1/8" thick Black acrylic backer.
Stud mount to mortar joints only,
(NO STUDS OR SILICONE ON BRICKS)

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San Francisco, CA 94105

Client:
Jamestown

- ☐ Planning
- ☐ Schematic Design
- ☐ Design Devel. 100%
- 11.06.15 ■ City Submittal
- ☐ Design Intent

Scale
6"=1'-0" UON

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R1 & ER

ADA Room ID &
Exit Route

7.0

Note:
Anchors into motar joint only

Top

Face, Side A

Face, Side B

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Scale
3"=1'-0" UON

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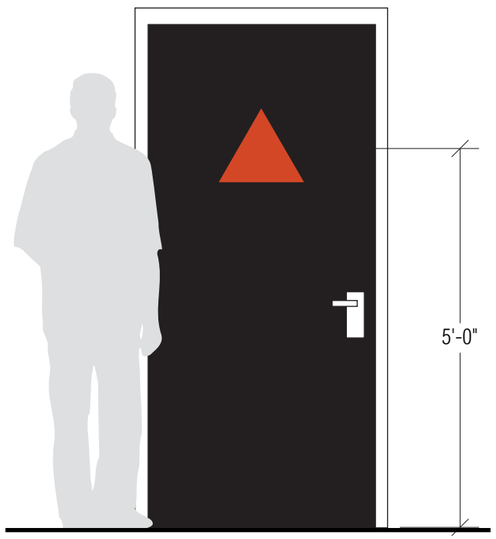
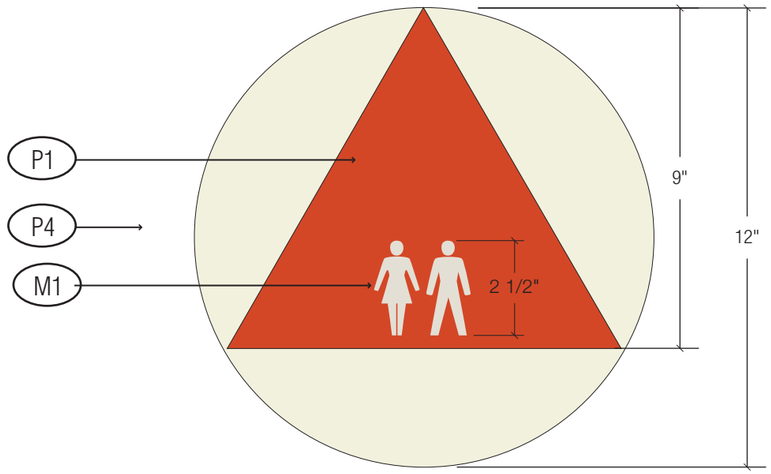
RRB
Restroom Blade
Plaque

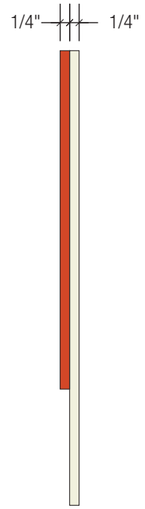
8.0



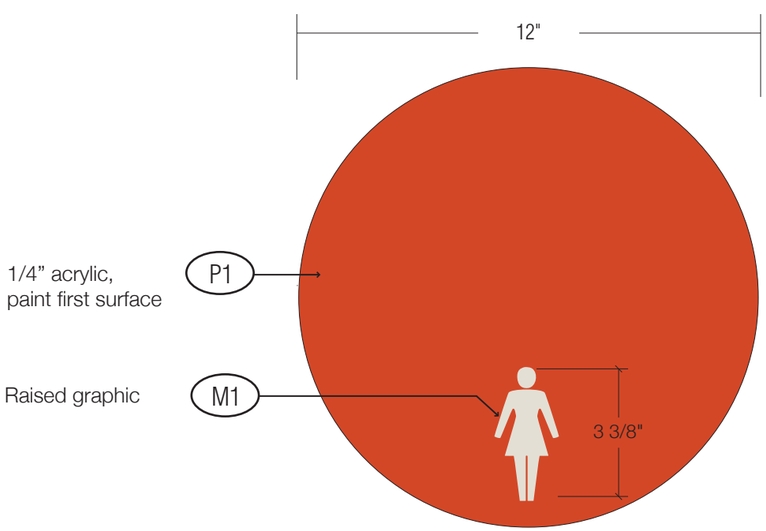
Install
1/2"=1'-0"



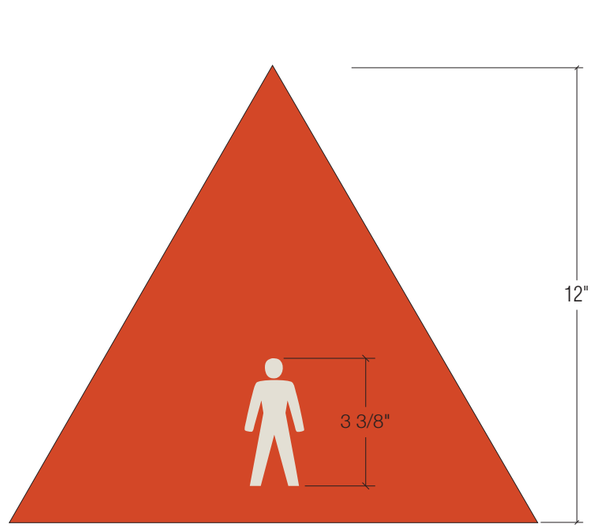
Unisex
Front



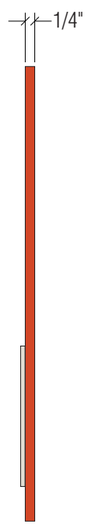
Side



Women
Front



Men
Front



Side

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Scale
3"=1'-0" UON

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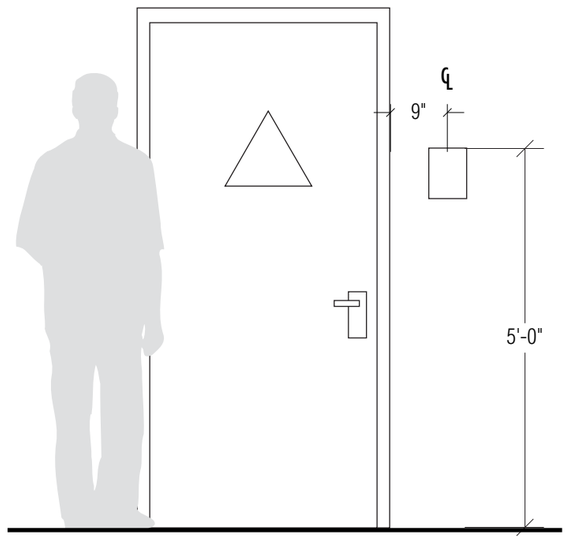
T-24
Title 24 Restroom
Plaque

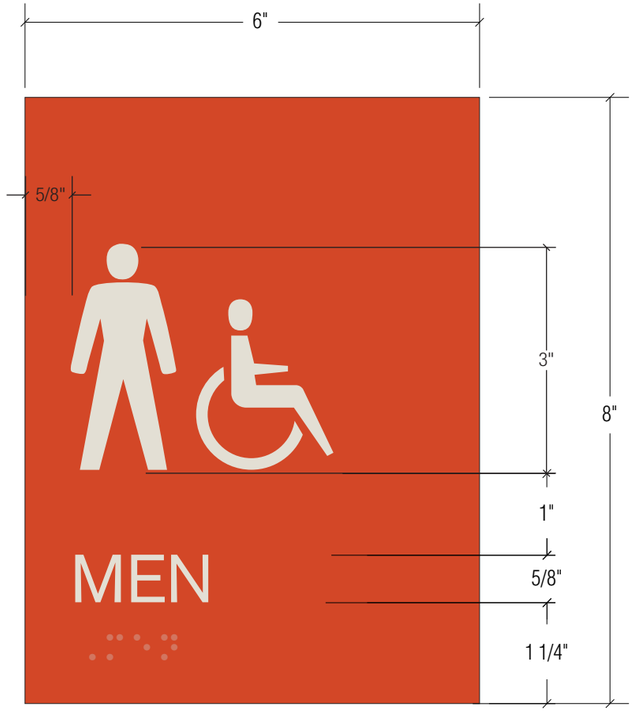
9.0



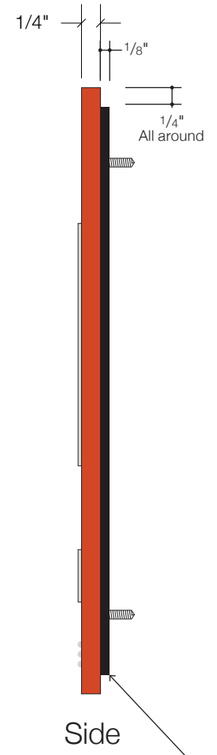
Install

1/2”=1’-0”

Women



Men



Side

1/8" thick Black acrylic backer.
Stud mount to mortar joints only,
(NO STUDS OR SILICONE ON BRICKS)
No studs required for sheetrock install.

Acrylic, paint first surface.

Raster lettering & pictograms.

Grade 2 Braille, clear.

Unisex

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11.06.15 ■ City Submittal

- ☐ Design Intent

Scale
6”=1’-0” UON

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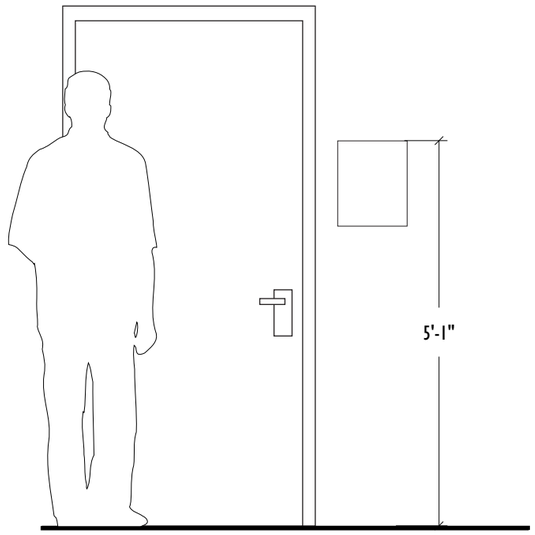
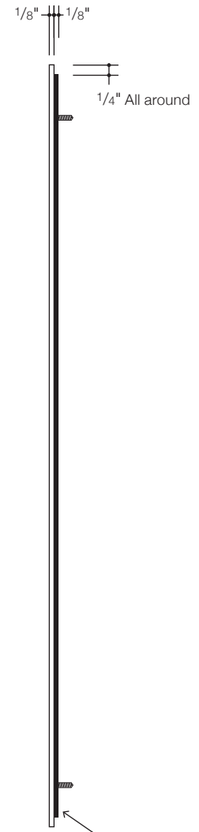
RADA
ADA Restroom Plaque

10.0



Placement Elevation
1/2”=1’-0”

Face



Side

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Scale
3”=1’-0” UON

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EVAC
Evacuation Plan

11.0

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