

PUBLISHING INFORMATION.

Title: Downtown Victoria Public Realm Plan and Streetscape Standards

Author: Community Planning Division – Sustainable Planning and Community Development Department

Status: Council Approval - 2017

Printing Date: May 2017

Disclaimer: This Guideline may be subject to periodic updates and amendments. Please contact the City of Victoria Planning and Development Department for up to date information.

Additional Copies: The City of Victoria

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Electronic versions (in PDF format) available on the City of Victoria website at www.victoria.ca/downtownpublicrealmguidelines

ACKNOWLEDGEMENTS.

This document was created by and for City of Victoria in association with:



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PUBLIC: ARCHITECTURE + COMMUNICATION WAYFINDING DESIGN SPECIALISTS



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EXECUTIVE SUMMARY

OVERVIEW

The City of Victoria has one of the most vibrant, walkable and recognizable Downtowns in North America. The City's public spaces have played a significant role in creating and supporting the City's identity and urban vitality. Victoria's Downtown has a rich history that can be seen in the buildings, plazas and distinct character areas that shape and define its unique identity.

The Downtown Public Realm Plan establishes a design framework and set of principles, strategies and standards for ensuring a unique, walkable, timeless and high quality downtown environment befitting of its role as the Provincial Capital. This Plan is further premised on respecting and showcasing Chinatown, Canada's oldest Chinatown and a National Historic Site, as well as Old Town, one of the Country's largest Heritage Conservation Areas. These precincts, together with a blend of contemporary buildings, contribute to a rich architectural fabric consisting of an eclectic mix of old and new elements.

THE PROCESS

The Public Realm Plan was developed through an integrated and collaborative planning process, Visual Victoria, which also included development of a City-wide Wayfinding Strategy, an important companion document to this Plan. The Visual Victoria process included a series of stakeholder and public workshops along with online and social media engagement, which resulted in extensive community participation, input and feedback. The broad purpose of this process was to support the creation of a memorable and positive image of Victoria based on its rich history and vision for the future while enhancing its unique identity and supporting vitality, accessibility and usability.

PURPOSE

The Downtown Public Realm Plan represents a renewed design framework for downtown public spaces including priority public realm improvements — with short and long term strategies for implementation — and a detailed catalogue of furnishing, materials, colours and specifications for Downtown Streetscapes. In this way, the Downtown Public Realm Plan clarifies important requirements for public spaces, waterfront and street design to both public and private sector professionals engaged in the facilitation, design, approvals and implementation of public realm improvements and infrastructure.

HOW TO USE THIS DOCUMENT

The first section of this document presents the background and rationale for the Plan. Section Two lays out the design framework including a set of principles, priority public realm improvements and strategies for implementation. Section Three is comprised of a set of design guidelines and specifications to guide frontage improvements and capital projects as well as maintenance and upgrades for public streets and open spaces.

RELATED PLANS AND INITIATIVES

The City of Victoria has established a number of other plans and initiatives in addition to the Downtown Public Realm Plan. These plans should be used in conjunction with the Downtown Public Realm Plan and have been identified and linkages summarized in Section 1.4 Relevant Plans & Initiatives.



1 INTRODUCTION

1.1 BACKGROUND AND OVERVIEW

Downtown Victoria is an area with rich cultural heritage demonstrated by local architecture, plazas, and distinctive character areas and is considered to be one of the most vibrant, walkable and recognizable Downtowns in North America. These characteristics, along with the significant role played by the City's public spaces, all contribute to Victoria's unique identity and urban vitality.

Since the early 20th century, sub-districts such as the Inner Harbour Causeway/Provincial Legislative area and the City's two Heritage Conservation Areas — Chinatown and Old Town — have been recognized as diverse components of a compact, multi-faceted city core. In addition, key corridors such as Douglas Street and Government Street connect major citywide attractions and destinations and provide key points of entry into the Downtown area and a focal point for business activity. Over the years, streetscape improvements have been based on the established Downtown character areas, resulting in a patchwork quilt of materials, furnishings and paving patterns. At the same time, Victoria's Downtown Core has expanded and the original character precincts have evolved.

The Downtown Core Area Plan adopted in 2011 establishes a framework for land use and development, economic vitality, mobility and urban design. The Plan renews the vision for Downtown as the economic, social and cultural heart of the city in anticipation of broad, balanced growth totaling approximately one million square meters of new building development, and the addition of approximately ten thousand new residents by 2040. The City is currently undertaking implementation of a network of All Ages and Abilities (AAA) separated bicycle paths. This includes four key corridors in the Downtown, which will integrate seamlessly with the pedestrian environment to enhance, prioritize and support low carbon mobility options in the City.

Continued growth in the number of people living, working and visiting the Downtown Core has created new challenges and roles that the City's public realm will need to address in the coming years. At the same time, the City's public realm and open spaces link a host of key destinations, services and attractions both within and outside the Downtown core. In order to support the connectivity of these spaces, an improved program for wayfinding that integrates with the overall approach to the public realm will be important in enhancing legibility and understanding for all users and establishing the Downtown as a more user-friendly and pedestrian oriented place.

To ensure a unique, walkable, timeless and high quality downtown environment, the Downtown Public Realm Plan outlines a design framework and set of principles, strategies, and standards for the Provincial Capital. Significant considerations have been placed on respecting and showcasing Chinatown, Canada's oldest Chinatown and a National Historic Site, and Old Town, one of the Country's largest Heritage Conservation Areas. Both of these precincts are home to a mixture of old and new architectural elements that contribute to the unique and eclectic identity of Downtown Victoria.

Visual Victoria, an integrated and collaborative planning process, included a series of stakeholder and public workshops along with online and social media engagement which resulted in extensive community participation, input and feedback. The input and feedback received was used to develop the Vision and set of principles, along with the strategies and guidelines contained within the Public Realm Plan. The City-wide Wayfinding Strategy, an important companion document to this plan, was also developed as a part of the Visual Victoria process.

1.2 PURPOSE AND USE

The overarching purpose of the Victoria Downtown Public Realm Plan is to provide long-term strategies, principles and guidelines for the design and programming of the public realm to support the Downtown Core Area Plan Document.

The Public Realm and Streetscape Plan builds upon existing public realm assets and the City's 1996 Downtown Beautification Strategy as well as other key City plans to develop a renewed strategy for public realm investment. This Plan clarifies important requirements for public space, waterfront and street design to all professionals engaged in the facilitation, design, approvals and implementation of the public realm. Professionals include both private and public sector representatives.

The Plan applies a consistent approach to all streetscapes in Downtown Victoria. These strategies, principles and guidelines are supported by the Standards Catalog for Public Infrastructure Works. The Standards set out the technical requirements for civil, landscape and infrastructure works that will be owned by or vested in the City of Victoria.

PURPOSE OF THIS PLAN

Provides a strategic companion document to the Downtown Core Area Plan (City of Victoria, 2013).

Outlines the value and importance of public spaces within the Downtown.

Provides an updated catalogue of furnishing, materials, paving patterns and other guidelines and specifications for downtown sidewalks and other public spaces.

Provides clarity to developers, designers and City staff regarding long-term strategies, principles and guidelines for the design and programming of public streets and spaces in the downtown.

Demonstrates application of design principles to Downtown public streets and open spaces.

Provides design directions for the design of key public spaces.

Provides a checklist of design principles.

Demonstrates application of design principles to Downtown public streets and open spaces.

Provides an implementation strategy for the short and long term.

Provides design direction and construction standards for downtown sidewalks and public realm infrastructure.

The streetscape standards set out in Section 3 are intended to guide design and implementation of public sidewalks, and not necessarily private open spaces and plazas, which will require a design response unique to their specific contexts.

1.2.1 MONITORING & UPDATES

It is important to note that the Plan and associated Streetscape Standards and Catalogue are intended to be updated from time to time based on ongoing monitoring and assessment of the performance and suitability of furnishing and materials. The Plan's implementation framework will also be updated as identified projects get implemented and new priorities identified.

1.2.2 SCOPE

This Plan applies to the area shown in the Project Scope Map, corresponding to the Downtown Core Area Plan (DCAP) boundary. The Plan considers important relationships between Victoria's Downtown and neighbouring areas.



Fig. 1 Project Scope Map

PROCESS

Public and stakeholder engagement that occurred as a part of Phase 1 resulted in an inventory and assessment of existing conditions, along with the identification of issues, opportunities and big ideas. The results of Phase 1 feedback were synthesized into a set of design principles. These principles guided the set of concepts and options developed as part of Phase 2. The outcomes of Phase 1 and Phase 2 guided concept refinement and detailed design that occurred in Phase 3, which is compiled into the Victoria Downtown Public Realm Plan.

All initial concepts and design vision were presented to the general public and stakeholders in the form of a slideshow and presentation. In addition, boards were generated to provide in depth details of the information presented.

Feedback was received in the form of interactive markups of boards, live questions and answers at the presentation as well as online (and onsite) survey with questions related to each topic presented.



Fig. 2 Project Process Diagram

1.3 DOWNTOWN CONTEXT

Located on the southern tip of Vancouver Island, Victoria is the capital of British Columbia. Victoria is home to over 80,000 residents while the surrounding Greater Victoria Region has approximately 400,000 residents. The City draws over 3 million tourists each year with its surrounding natural beauty, compact and unique Downtown, and historic old town area as well as other key attractions, special events and destinations in and around the Downtown core. Victoria's Downtown is the City's calling card and a major contributor to its livability. Past public and private investments in the City's urban fabric have created and revitalized a number of walkable districts in and around the Downtown core with distinct visual identities and strong destinations for both visitors and residents.

to Victoria each year. The Inner Harbour also contains several float plane operators who provide daily service from Inner Harbour to Vancouver BC, Seattle, WA and other destinations.

Ensuring a unified, cohesive, legible and high quality public realm environment is therefore an essential component of supporting a vibrant, pedestrian oriented and memorable downtown environment that is the social, cultural, and economic heart of the Capital City and region.

Increased population and job growth coupled with a strong growing number of visitors have placed continued pressure on the City's public spaces. At the same time, due to the lack of a current coherent strategy, public realm improvements and districting have resulted in some inconsistent approaches to public space design and infrastructure. The overall purpose of this process is to establish a coordinated and cohesive strategy that aligns limited City, private and other stakeholder resources into a cumulative program of public space improvement.

Victoria's compact size, relatively high overall residential and employment density and fine-grained street network enable convenient travel by foot, bicycle and public transit. These modes of transportation currently account for an approximate 46% share of resident trips to work each day, one of the highest multi-modal rates in Canada. By 2041, this number is expected to increase to 60%, according to the target set by the Official Community Plan. Within the Downtown Core, the Douglas and Government Street corridors play prominent roles as the City's primary mobility and retail corridors respectively. In recent years, these two streets have been identified by City Council and a number of Downtown stakeholders as important corridors in need of more detailed future planning and public realm design. Therefore, the treatment and role of Douglas and Government Street corridors are of key importance in the Plan and Strategy. As such, this plan provides specific consideration for these two corridors.

Downtown Victoria also supports a large tourism industry. A vibrant cruise ship industry attracts over 200 cruise ships each year and unload over 450,000 passengers, many of whom will spend time walking through the Downtown and surrounding area. Further, Clipper and Blackball ferry services transport over 750,000 passengers and bring in 127,000 vehicles



1.4 POLICY FRAMEWORK

Following is a summary of key studies, policies and initiatives that provide the background for this document.

DOWNTOWN CORE AREA PLAN (2011)

- » Central Business District: to develop well-designed, clearly marked and safe pedestrian, cycling and transit networks, and to support the use of transit by encouraging commercial and residential mixed-use developments and street-level retail and businesses.
- » Historic Commercial District: to reflect the historic character of the District in the public realm improvements, and to improve public wayfinding and streetscape to achieve a cohesive and consistent design.
- » Rock Bay District: to be transformed into a key employment centre, to integrate a strong public transit network that supports employment uses and activities, and to promote environmental stewardship through the integration of green and innovative infrastructure.
- » Inner Harbour District: to become a World-class gateway to Victoria, and to continue to promote a pedestrian-friendly environment and high-quality streetscaping.
- » Residential Mixed-use District: to encourage pedestrian activity and support retail along selected streets.

CAPITAL REGIONAL DISTRICT - REGIONAL PEDESTRIAN & CYCLING MASTERPLAN (2011)

- » The region has a healthy walking and cycling community. By upgrading pedestrian and cycling facilities in priority locations, the community would grow significantly.
- » To provide levels of separation for on-street bikeways based on street classification and users' needs.
- » To ensure that residents have the skills, information, confidence and support they need to walk and cycle more.
- » To enhance legal protection for vulnerable road users and to enforce traffic safety rules for all road users.

OFFICIAL COMMUNITY PLAN (2012)

- » A high demand for high to medium densities in the Urban Core.
- » New development should create new memorable places, while embracing older special character areas through urban design, heritage conservation and animation of the public realm.
- » To Promote social equity and physical accessibility.

VICTORIA HARBOUR PATHWAY PLAN

- » The Harbour pathway aims to become Victoria's preeminent public space, envisioning a continuous, five kilometer public route along the City's waterfront, between Ogden Point and Rock Bay.
- » "Special places" along the Harbour pathway route / a diverse waterfront experience, and to identify and enhance key viewpoints, view corridors and connections to the upland street network.
- » There's currently no existing waterfront pathway in the Rock Bay District.
- » In parts of Old Town, connections form the waterfront to downtown streets are through large areas of surface parking.
- » Noted that there are significant conflicts between vehicle traffic and pedestrians in Fisherman's Wharf.
- » Calls for incorporation of public art into the design of the harbour pathway.
- » To minimize Pathway impacts while maximizing opportunities for site-specific habitat protection and enhancement along the Pathway.

PEDESTRIAN MASTERPLAN FINAL REPORT (2008)

- » The Sidewalk Priority Index (map) identifies several segments in the Downtown core as high priority areas.
- » To increase budgets for pedestrian infrastructure to be more reflective of its significant mode share and City goals to support walking.
- » Provided examples of good configurations of the sidewalk.
- » To update the Sidewalk Priority Index every 5 years to accommodate changing conditions and needs.
- » To increase park programming opportunities and to enhance park safety.

URBAN FOREST MASTER PLAN (2013)

REGIONAL VISION LOCALIZED DESIGN

DOWNTOWN PUBLIC REALM PLAN

1.5 RELEVANT PLANS & INITIATIVES

In addition to the Downtown Public Realm Plan, the City of Victoria has also established a number of plans and initiatives that are referenced within the Downtown Public Realm Plan. These plans and initiatives should be used in conjunction with the Downtown Public Realm Plan and are listed below.



CITY OF VICTORIA WAYFINDING STRATEGY

This Victoria Citywide Wayfinding Strategy has been created by the City of Victoria to facilitate transportation around the city, primarily by pedestrians, cyclists and transit users. This document is intended to be used as a reference for anyone working on wayfinding projects within the City of Victoria. The information provided includes an overview of the process and reasoning behind the wayfinding system along with descriptions of the individual components of the system and how they are to be used in a variety of contexts. Recommendations and suggested work-flow processes are provided to inform the implementation of the system. Sign construction drawings are provided to a level of detail that should allow any sign fabricator to reproduce wayfinding elements that fit seamlessly into the system. Phasing schedules indicate which areas of the city are priority candidates for the new wayfinding system and the schedule by which they should be implemented.



CITY OF VICTORIA FOREST MASTER PLAN

The Urban Forest Master Plan is a city-wide policy that outlines the vision, goals and strategies for the management of Victoria's urban forest until 2060. The overall vision is for a healthy, diverse and abundant urban forest which is well integrated throughout all parts of the city, and which supports biodiversity and watershed health while also enhancing the character of neighbourhoods and creating places for activity, enjoyment and relaxation. The goals and actions established in the plan provide a focus for the City's urban forest program planning initiatives such as the Downtown Public Realm and Streetscape Standards.



BICYCLE NETWORK MASTER PLAN

Victoria is implementing a network of separated bike paths as part of the implementation of the Bicycle Network Master Plan, which, when complete, will provide over twenty-four kilometres of All Ages and Abilities bicycle infrastructure. When complete, the new active transportation network will encourage people of all skill levels to ride, skate and rollerblade throughout the Capital City.



HARBOUR PATHWAY MASTER PLAN

David Foster Harbour Pathway is enivisoned to be a waterfront route that connects residents and visitors with key destinations in the City, from award-winning restaurants to marine-based tourism activities, and everything in between. The Harbour Pathway celebrates the City of Victoria's unique working harbour, gives the opportunity to recognize Lekwungen First Nations history, enhances the natural marine habitat, and supports social and economic well-being. Once complete, the David Foster Harbour Pathway will extend over five kilometres from Rock Bay to Ogden Point. Special sites will be created along the pathway, increasing downtown public spaces, drawing people to the waterfront to gather with friends and family was well as taking in the Capital City's signature community celebrations.



CREATE VICTORIA

As outlined in the Official Community Plan: "the arts and culture are central to social sustainability and attributes of community well-being and quality of life. Culture can be defined as practices and values, heritage and place, the arts, diversity and social history. This plan includes policies for the creative city through the development and regular update of a Cultural Plan, coordination of art in public places initiatives, community public art and events in public space, and support for facilities and access to commercial space. Planning and delivery of arts and cultural programs and spaces will depend on funding and innovative solutions to increase and diversify the future supply of facilities and venues to perform, exhibit, create, work and live". In 2017, the City of Victoria began work on Create Victoria, a five-year Arts and Culture Master Plan that will align ideas, people, and resources around a shared vision and a set of goals, strategies and tactics to realize Victoria's potential and guide investment.



ART IN PUBLIC PLACES POLICY & GUIDELINES

Art in Public Places is a vital ingredient in the cultural fabric and streetscape of a creative city. The city of Victoria intends to promote the creation and inclusion of works of art in its public buildings and public spaces through the Art in Public Places Policy. The City of Victoria will provide the cultural leadership to guide the evolution of a distinct and vibrant artistic character for civic public places and ensure a visual legacy. Art in Public Places is a vital ingredient in the cultural fabric and streetscape of a creative city. The Art in Public Places Policy commits \$150,000 annually to public art which is placed in a reserve fund, ten percent of which is dedicated towards the maintenance of existing art works. As well, exceptional, significant civic construction projects will include public art for up to one percent of the project's construction costs. For these projects, funds can be used to incorporate public art into a project's design, to create a stand-alone piece onsite or for public art at another location. The City of Victoria's Art in Public Places Policy reflects current best practices and creates a broad range of opportunities for citizen participation. The Art in Public Places Policy is revised every five years and will be revised as a part of Create Victoria, a five-year Arts and Culture Master Plan.



HANGING BASKET PROGRAM

The City's hanging basket program was started in 1937 to celebrate the 75th anniversary of the incorporation of the City of Victoria. The annual hanging flower baskets are now a trademark recognized around the world, and an important character defining element of Old Town in the summer. The basket program currently consists of over 1,300 hanging baskets, placed on lamp standards throughout the downtown between June and September each year. The hanging basket program is operated by the Department of Parks, Recreation and Facilities Management.



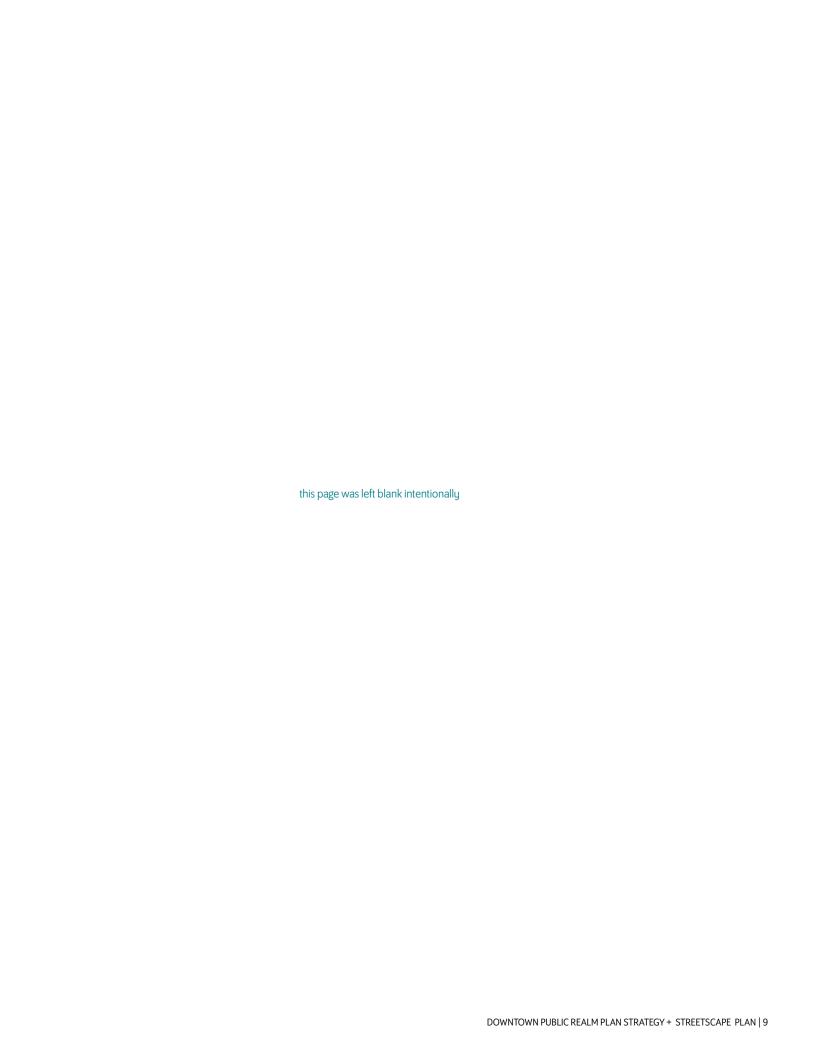
SEASONAL DECORATION PROGRAM

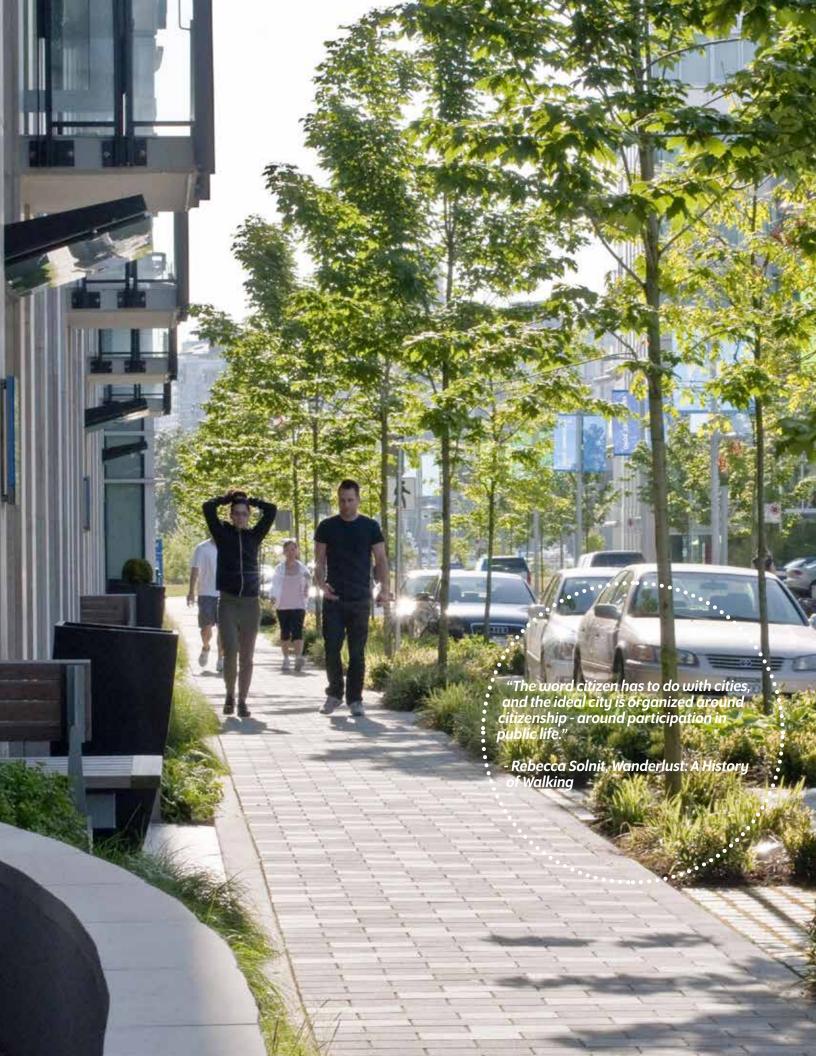
Over the years, the City has coordinated installation of seasonal decorations for Christmas, Halloween, Chinese New Year and other seasonal celebrations. Design of the program has generally been through joint discussion (and partnership in Centennial Square) with the DVBA, which has also undertaken an annual Christmas decoration program. A review was undertaken in 2014 to determine improvements to the program. Capital and operational budgets have been in place to support purchase of new decorations as well as installation and removal. Development of an updated seasonal decorations program defining objectives, criteria, responsibilities, partnerships and funding is recommended as an action of this plan. To align with Visual Victoria and the Create Victoria Arts and Culture Master Plan, the City of Victoria will develop of a formal process for addressing seasonal banners and decorations to ensure that they are physically attractive, liveable and "user friendly".



BANNER PROGRAM

Over the years, the City has coordinated a banner program in partnership with the DVBA. Art competitions open to the public have been held every two years since the program was initiated approximately twenty years ago. Banners were also introduced for the Christmas program in order to bring daytime colour during daylight shopping hours when lights were not yet on. Neighbourhoods were offered small banner programs to animate their neighbourhood/village centres in 2007. City banner programs have focused on art, vibrancy and, to some extent, location identity (e.g. Chinatown). Organizations interested in promotion of events, commemorations and NFP fundraising have been directed to the cross-street banner administered by Public Works on Douglas at Pembroke. Commercial advertising is not permitted at any banners sites. Periodically, there is a request for the City to install banners for a national celebration or commemoration (e.g. Veterans, Cultural Capitals) where operational costs may or may not be covered. Development of an updated Banner Program defining objectives, criteria, responsibilities, partnerships and funding is recommended as an action of this plan to ensure that it is physically attractive, liveable and "user friendly".





1.6 DEFINING THE PUBLIC REALM

The public realm includes all exterior social spaces in the city that are generally open and accessible to all people regardless of ownership. These public spaces include streets, lanes, greenways, bridges, squares, plazas, parks, linkages, natural areas, transit hubs, views, and the waterfront. It also incorporates streetscape elements such as street furniture, lighting, public art, and sidewalk treatments.

The public realm requires a network of pedestrian-friendly streets interconnected to great civic spaces such as plazas, squares, greenways, and parks. These spaces become public outdoor rooms that create positive activity between buildings, as well as areas of reflection and reprieve.

The public realm is the city's holistic urban landscape, which cannot be separated from components of the city infrastructure. In addition to great buildings, the public realm is also one of the most memorable aspects in the city for visitors.

Pedestrian and Bike Ways

Public Spaces and Nodes

Trees

Public Art

Fig. 4 Components of Public Realm.

The characteristics of a great public realm and great public spaces have been extensively studied and documented across North America and throughout the world. The public realm and public spaces must be constantly blended and woven together in order for cities to be more livable, neighbourhoods more engaging, and communities more memorable.

The public realm includes exterior spaces, linkages and the surrounding built form elements that are visually and physically accessible. Public realm components generally include parks and open spaces, plazas, streets, sidewalks, pathways, transportation hubs, gateways, waterfront areas, natural features, view corridors and the interface between these elements and surrounding buildings.

The overall quality, design and function of the public realm has significant influence on the local quality of life within the urban environment. The public realm provides the places and spaces where people gather, meet, socialize, recreate, shop and work.

The public realm strategy described in this Plan provides a comprehensive and focused approach to build upon the Downtown Core Area's successful history of place-making through public realm improvements that provide:

- · Social and active spaces
- Versatile spaces that benefit all ages
- Meaningful and pedestrian-friendly connections
- Distinctive places that strengthen local identity
- High quality and attractive places
- Public amenities that are attractive and functional

1.6.1 IMPORTANCE OF THE PUBLIC REALM

A high quality public realm is essential to achieving an attractive neighbourhood experience at the human scale. It can encourage people to use sustainable transportation modes - walking, cycling, transit - by offering improved connections between places, and making those connections into memorable spaces as well. It can nurture community by providing gathering spaces that are appealing and functional. The public realm plays an important role in enhancing the quality of life in a community which, in turn, can improve its desirability as a place to live and work.

To achieve these benefits, the Public Realm Plan outlines a comprehensive and strategic approach to how the public realm is developed, enhanced and maintained.

1.6.2 STREETS AS PUBLIC SPACES

Collectively, streets make up the largest public space in most cities. The way in which people and vehicles move through the street network have a significant impact on the overall experience of a city's public realm. The first step in making cities safer and more pleasant places to live is to inspire residents to view their streets as public spaces. Long-term planning as well as inexpensive tactical transformation strategies can be powerful tools to encourage public participation and improve quality of life.





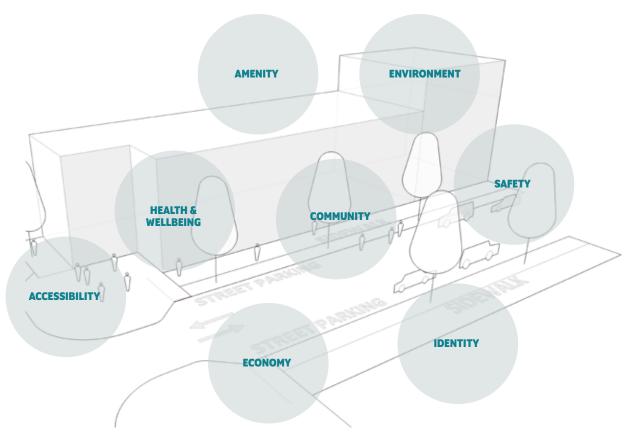


Fig. 5 Benefits of public realm come from excellent design and thoughfull programminng.

1.6.3 BEST PRACTICES

The Downtown Core Area will offer an array of vibrant urban neighbourhoods surrounding a thriving, pedestrian-friendly Downtown Core. All people will benefit from a high quality public and private environment and a broad range of employment, housing, shopping, and recreational opportunities, all within a well-connected and attractive urban environment that embraces the Victoria Harbour, celebrates its heritage, Victoria's role as the Provincial Capital and provides a model for livable and sustainable urbanism.

BEST PRACTICES

Identity of Place

Create public spaces with authentic character and identity.

Diversity of Use

Provide a mix of varied public spaces to support the diversity and uniqueness of the precincts and to meet the needs of current and future populations.

Community Focus

Ensure public spaces engage the local community and contribute to community health and wellbeing.

Sustainability

Design a public realm that improves environmental, material, financial and social sustainability.

Interfaces

Provide diverse and engaging building interfaces with streets, waterfronts and public space, attracting daily activities and enriching street life.

Accessibility

Incorporate universally accessible design into the public realm to allow barrier-free access.

Connectivity

Ensure permeability and safe linkages within Downtown by enhancing unique network of lanes and passages.





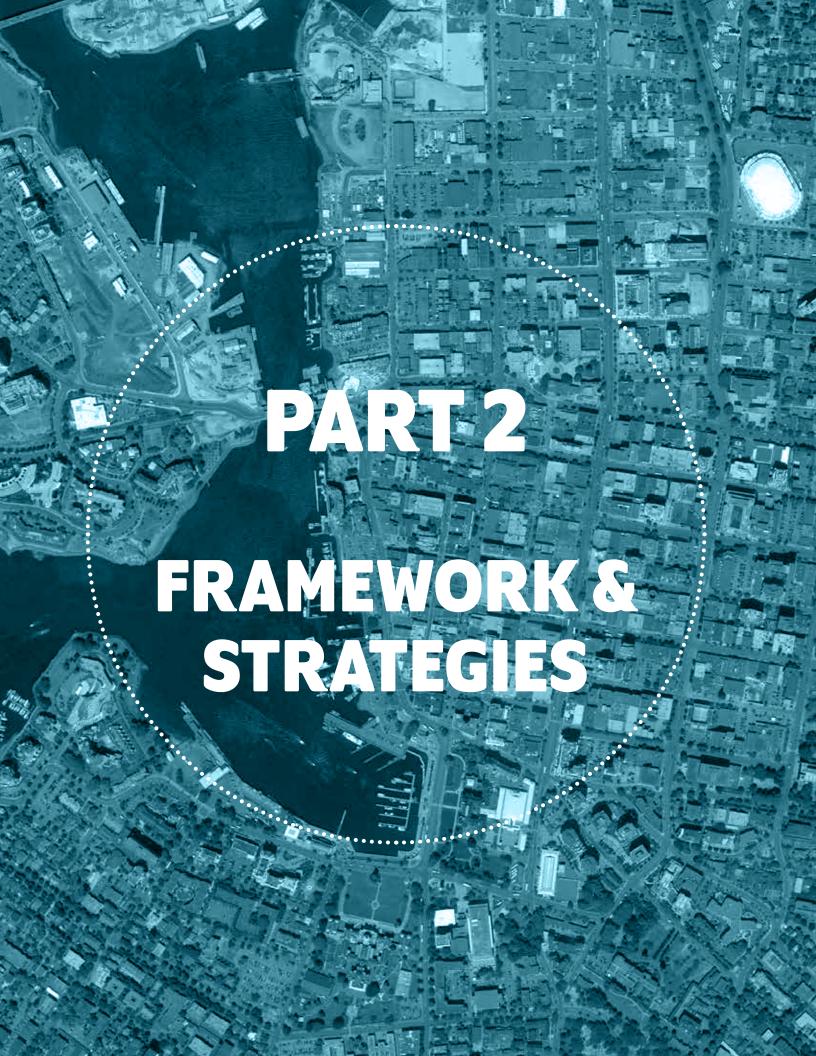








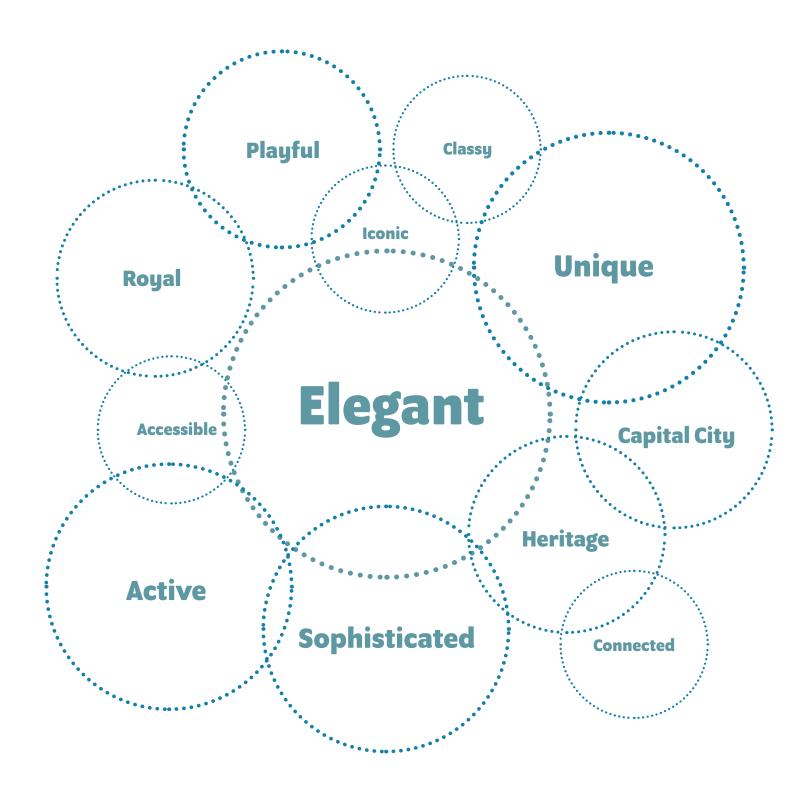




2 DESIGN FRAMEWORK & STRATEGIES

2.1 VISION STATEMENT

"The Downtown Public Realm will be a vibrant, well connected network of public spaces — from the outdoor shopping experience of Government Street and Douglas Street to small, intimate alleyways allowing for a sense of discovery. The simplified but sophisticated materials palette and unique selection of furnishing and street elements for each of the character areas creates a coherent and elegant environment that complements the rich heritage character of Downtown streets."





2.2 DESIGN FRAMEWORK

This plan structures the downtown public realm into five distinctive character precincts: Rock Bay, Chinatown, Old Town, New Town, Inner Harbour, and two character streets: Government Street and Douglas Street. In addition, there are a number of considerations for various key public spaces in the downtown Victoria area, as listed below.

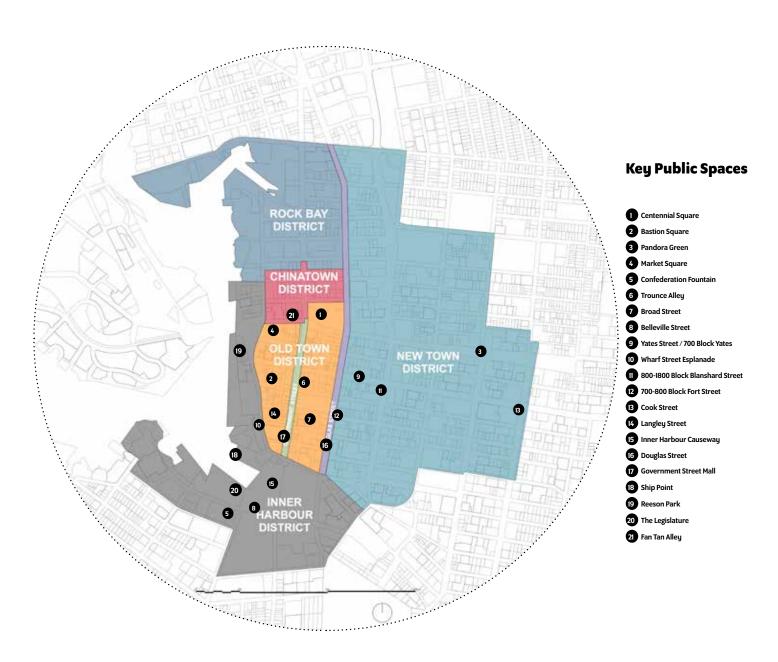


Fig. 6 Design Framework



2.3 PUBLIC REALM STRATEGIES

The following Design Principles are premised on supporting the creation of a memorable and positive image of Victoria based on its rich history and vision for the future, while enhancing its unique identity and supporting vitality, accessibility and usability. These principles were established through public and stakeholder engagement that occurred as part of the Visual Victoria process, and are elaborated on as a set of strategies in the following pages.













Simplify

The diversity, "busy-ness" and lack of continuity of materials, furnishing, signs and colours is cluttered and haphazard. There is an opportunity to create a more simplified palette, or a 'quiet canvas', that provides an unfettered backdrop for the rich built environment and diversity of storefronts and activities that define Victoria's Downtown, as well as provide wayfinding clarity.

Activate

Lack of programming and activity results in poorly used and unwelcoming public spaces in some instances, for example, Centennial Square and the waterfront.

Slow Down

Downtown as a place where life can slow to a human walking pace, where people can mingle without fear of motor vehicles and access is possible for the widest spectrum of the population.

Connect

The network of alleys, mid-block passageways, plazas, waterfront pathway and other pedestrian open-spaces can be better linked to create a connected whole. This would create an alternative network to complement the more central and busier promenades such as Government, Douglas and Yates Streets.

Prioritize

Prioritize and focus on key public space improvements, and coordinate implementation with new private developments, and on going capital and maintenance projects.

Respect and Celebrate Context and History

Ensure street furnishing, materials, colours and signs enhance, rather than detract from the Downtown's rich and diverse architectural heritage. Respect and honour First Nations past and present though place naming, signage and public art.

Plau

Play can be introduced to city streets and public spaces with playful elements that invite all generations to explore and discover play in an urban environment. From small temporary interventions to permanent displays.

2.3.1 MAKING THINGS SIMPLE

The rich and varied architecture of Old Town, Chinatown and other Downtown precincts, as well as the eclectic and diverse mix of building facades and businesses, define the strong and unique character and identity of the Downtown area. A simplified and higher quality palette of streetscape elements will provide a 'quite canvas' and allow the rich architectural heritage and diversity of storefronts and activities that define Victoria's Downtown to shine.

USE FEWER BUT HIGH QUALITY MATERIALS

A mix of only four key paving materials in different proportions throughout the Downtown will simplify but allow for diversity. Proposed materials allow for a variety of finishes and sizes to ensure accessibility and to accommodate various user groups. Proposed construction details will also improve settlement differences to ensure a unified and even surface.



RICH HERITAGE MATERIALS

Brick is a heritage material already present within Downtown with a rich and sophisticated quality. It is to be used in the character precincts with significant heritage value.



HIGH QUALITY FEATURE MATERIALS

Natural stone is to be used as a feature visual element in the streetscape. The stone has a timeless, sophisticated and elegant quality. The proposed material maintains a continuous, even and uniform surface for increased accessibility and long term durability.



Concrete unit pavers are also considered to be a feature visual element. These standardized pavers provide a comfortable pedestrian setting and easy accessibility for all user groups.



SIMPLE SIDEWALK MATERIALS

Concrete paving is practical and provides a uniform and even surface that allows accessibility to various user groups. They are used throughout sidewalk areas to maintain a comfortable and safe pedestrian environment.



IMPROVED CONSTRUCTION DETAILS

Materials should be installed using a flexible mortar set that can accomplish a smooth finish with an even surface. Furthermore, elements such as tactile buttons and bollards provide additional safety for various user groups.



VISIBLE TACTILE BUTTONS

High quality stainless steel tactile buttons provide high contrast, yet elegant demarcation of all areas that require attention, creating safer and easier to navigate streetscape.

FEWER STANDARD ELEMENTS

Maintaining furnishing unique and iconic to Victoria and focusing them in specific character precincts, while reducing the number of standard elements in the downtown overall, will create a more simplified and focused palette of materials. This will help create a more cohesive and unified streetscape, better distinguish different character precincts and minimize maintenance costs over the long term.

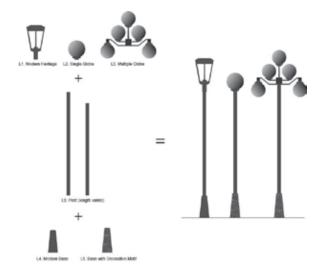




LIGHT STANDARDS

The Globe Light is an iconic element in Downtown Victoria, in particular Old Town and the Legislative Precinct. To enhance the character and identity of these two unique and identifiable areas, the use of Globe Lights will be focused only in the Old Town and Legislative Precincts.

In the New Town and Rock Bay precincts, a new "modern heritage" style lamp standard will be used to complement the mix of more contemporary architectural styles and create contrast with the Old Town and Chinatown heritage precincts. It will also help create a robust long term strategy to minimize maintenance costs.



Chinatown Colour Palette Downtown Colour Palette

UNIFIED COLOUR - GLOSSY BLACK

To unify and simplify downtown streetscape elements with a colour that is timeless and fits well with the heritage architectural fabric of Downtown, glossy black will be applied to all streetscape elements in the Downtown with the exception for Chinatown, which will remain red.

This includes the metal components of all benches, light poles, trash bins, bike racks, and bollards.

CHINATOWN UNIQUE

Chinatown is a Heritage Conservation Area, a National Historic Site and Canada's oldest Chinatown. It has a well-established and unique character defined in part by its streetscape elements. These include custom street lamps, red painted streetscape components, varied and unique street trees, catenary lighting on Fisgard, the symbolic sidewalk brick and paving pattern, and the Chinatown gate and lion statues on Fisgard at Government. These established streetscape elements will be maintained and expanded within Chinatown.









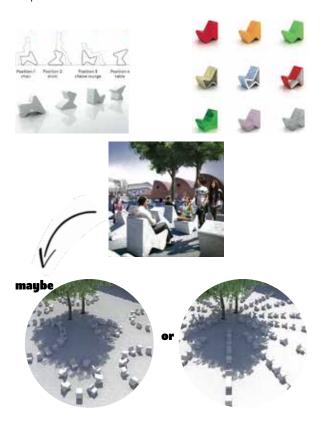
2.3.2 ACTIVATE THE WATERFRONT

As a working harbour with an industrial past, the Downtown waterfront has been an important component of the City's economy and identity. In recent years, the industrial activities have subsided and the Downtown waterfront area is in a state of transition. While there are pockets of activity along the Downtown inner harbour, specifically along the Lower Causeway and at Ship Point when there are events and festivals, other sections of the Downtown waterfront have limited activity and connectivity to the Downtown.

The Harbour Pathway is an important initiative that will help address this issue. Once complete, it will connect Rock Bay to Ogden Point through the Downtown along the Inner Harbour. A further opportunity to help activate the waterfront will be to program various activities along the Harbour Pathway that engage people of all ages and fit with the urban surroundings. Examples include bocce ball and lawn chess, shipping container cafés with patios, interactive public art, etc. In addition to activating the pathway along the water, programmed activities will draw people to the waterfront from all parts of Downtown, thus strengthening the urban fabric in the entire area. Following are some initial strategies for activating and unifying the waterfront.

REVEAL PROGRAMMING OPPORTUNITIES BY USE OF MODULAR + REMOVABLE STRUCTURES

- Flexible elements to accommodate people of all ages.
- Start with temporary interventions that can lead to the development of more permanent interventions over time.





PUBLIC ART TO UNIFY AND ENHANCE THE WATERFRONT

Public art can be used as a unifying element along the waterfront to help create a more cohesive, unified and enhanced public waterfront and Harbour Pathway through the downtown that will potentially extend along the entire Harbour Pathway. The City will undertake a Waterfront Public Art Strategy to supplement the Harbour Pathway initiative to define elements, components and implementation requirements that can help create a more cohesive, unified and enhanced public waterfront.



» As part of the exhibition "Please Touch the Art", Jeppe Hein reinvented the form of the park bench, and turned them into a series of witty and interactive sculptures to engage and be enjoyed by park users of all ages!

2.3.3 ENERGIZE OPEN SPACES

Plazas and open spaces are the defining elements of the public realm. Clear pedestrian linkages between open spaces draw people from one to the next and contribute to a sense of spatial cohesion throughout the city.

Locations such as Reeson Park, Ship Point, Belleville Street / Green, Centennial Square, Menzies Plaza and Laurel Point should be re-activated and re-animated with a myriad of diverse programming to help form a cohesive vision including interactive public art opportunities.

LEGEND



Primary Open Space



Secondary Open Space



Tertiary Open Space



PRIMARY OPEN SPACE



Centennial Square ---

Activation of Centennial Square.



SECONDARY OPEN SPACE

4

Reeson Park -----

Movable furniture and playable/ interactive public art on the sloping lawn.



2 B

Bastion Square -

Pop-up fair / temporary interactive installations.



5 Laurel Point Art installations.



3

Ship Point -----

A world class waterfront park and signature festivals and events venue, and programming for passive and active uses year round as a key City public open space destination.



6 **Belleville/Menzies Plaza – – –**A terraced plaza with an amphitheater design to support connectivity and activity.



2.3.4 DISCOVER THE SECRET THREAD

Creating a sense of comfort, curiosity, and excitement for pedestrians means giving them increased choices-where to walk, where to pause, where to sit down, how to engage, when to interact, when to play.

The network of alleyways and mid-block connections is a unique and interesting feature that adds an element of surprise and sense of adventure to the Downtown urban fabric and provides alternate routes to the busier street network. Creating better connections and recognition of the network of alleys and mid-block connections within the larger open space network will enhance its legibility and attractiveness. Further, programming these spaces with art and activities will make them more vibrant and interesting places to be.



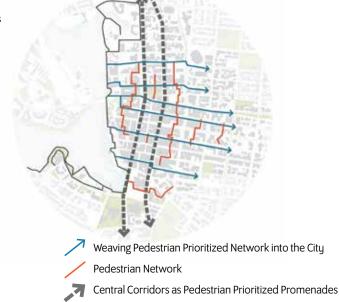
A layered approach is combined with a phasing strategy-starting with temporary interventions of wayfinding and recognizable branding, followed by incremental changes towards diversified programming opportunities and uses.

1. VISUALLY CONNECTED

The intent is to create a physical guide to connect and recognized the laneway network within Downtown.

This can be done in a number of ways:

- Use of temporary and permanent street paint of a ground plane, murals on the vertical walls.
- Installation of vertical wayfinding elements and plaques
- Use of unique materials, special pavers and colour to demarcate laneway entry points at street crossings
- Use of interesting and artistic patterns such as footsteps, a continuous graphic line or other graphic patterns in the alleyways as well as at crossing zones



2. DIVERSIFIED BY PROGRAMMING + USE

The intent is to recognize and highlight the existence of the laneway network and bring new life and energy to these narrow and interesting spaces.

This can be achieved by:

- Allowing sidewalk cafés
- Providing financial incentives
- Providing art and culture programming such as festivals, musical performances, art installations
- Providing permits for "legal street art"
- Creating an art program that pairs several artists each year with laneways to create temporary artwork





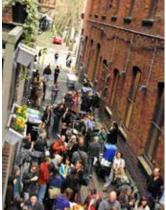














2.4 PRIORITY PUBLIC REALM IMPROVEMENTS

2.4.1 ENERGIZE CENTENNIAL SQUARE

Centennial Square is the City's main civic, ceremonial and recreational plaza and serves as a venue for a number of different types of events and large public gatherings ranging from protests to honouring ceremonies, from demonstrations and displays of public art to theatre performances, and from music and cultural festivals to local markets. Centennial Square was constructed in the 1960s as part of a major initiative to preserve, restore and revive downtown Victoria, and to celebrate the 100th anniversary of the incorporation of the City of Victoria. A major renovation to the south west corner of the plaza was completed in 2009. Centennial Square is surrounded by both modern and historic structures, including historic City Hall constructed in 1891, and features a fountain incorporating a balustrade rim and mosaic concrete totems, which serve as a focal point to the plaza.

Today, outside of when there are events and festivals, activity in the square is lacking. Further, infrastructure in the square, including the fountain, some of the surface treatments, and parkade structure, is aging and in need of major maintenance and repairs.

As part of the Visual Victoria process, Centennial Square was identified as a priority public space for significant improvement and refresh, specifically to activate and energize the square, provide support for major events and festivals and better connect to the adjacent street network/open space context. Over the short term, this could be accomplished by updating and refreshing surface treatments, and programming the plaza to have more 'sticky edges' (active edges that draw people into the square and make them want to stay). This could also include incorporating strategies to create stronger visual and physical connections to the adjacent streets and open spaces, and strategies to open up the plaza and create a more open, continuous and usable open space to support the plaza as the City's major events, festivals and cultural space.



LONG TERM CHANGE BEGINNING WITH TEMPORARY INTERVENTIONS.

Over the long term, this could include redevelopment of the aging parkade structure into a new mixed-use building that incorporates active ground floor uses with a potential mix of civic, institutional, and cultural/community uses above, and an underground parking structure below.

Both short and long term strategies would be explored and committed to as part of a Master Planning process for Centennial Square, which is a key recommended action of this Plan. Below is a summary of potential strategies to explore as part of a future master planning process for Centennial Square to create a more continuous, integrated, and vibrant civic environment.



Increasing ground-level commercial and café /restaurant space will transform the square around the clock.



2 Create 'sticky edges' with temporary installations or activities

Temporary café kiosks or food trucks can build an instant sense of place and become a destination.



Connect to Douglas Street

Replacing the grassed area to the east of the square with a hard surface treatment, and incorporating a unique canopy structure that could double as a transit shelter at Douglas, will create stronger visual and physical connections to Douglas and help enliven the space with people.



Incorporate Play Elements

Incorporate permanent and temporary elements to help activate the plaza and to make it more inviting and welcoming for children and families.



Use high quality materials

Introduce natural stone paving as a key surface material to complement the existing heritage brick in order to enhance the quality of materials befitting the City's main civic square.



2.4.2 GOVERNMENT STREET - SHARED SPACE

With a diversity and concentration of pedestrian oriented shops and services, and as a key pedestrian connection between the legislative precinct through Old Town to Chinatown, Government Street is the Downtown's most prominent pedestrian priority street and one of its signature destination retail high streets. Streetscape improvements emphasizing Government Street's role as pedestrian priority street, including the use of brick pavers, rolled curbs and widened sidewalks, were completed from Wharf Street to Yates Street in the late 1970's.

The Downtown Core Area Plan adopted in 2011 includes a direction to extend the established pedestrian oriented streetscape character from Yates to Pembroke. Further, Government Street is identified to be part of the City's All Ages and Abilities bike network. A number of additional improvements were identified during the Visual Victoria process to be incorporated as a part of further detailed design for this corridor. These include:

- Reconfiguring the intersection of Government Street and Wharf Street to make it more comfortable and accessible for pedestrians, and emphasize it as a key pedestrian gateway and connection point between the Lower Causeway/Legislative Precinct and Old Town.
- Implementing a 'shared street' or whoonerf streetscape design on the
 new extension between Yates and Pembroke. Specifically, a curb-less
 streetscape environment with a continuous ground plane and paving
 materials, and the separation of pedestrian from vehicular space
 using bollards, bench elements and other streetscape elements and
 furnishing. Together with temporary and seasonal traffic closures, this
 design will support the use of Government Street as a linear plaza,
 and an events and festivals space. This will also increase the use of the
 corridor a ceremonial street and parade route.
- Exploring the opportunity to incorporate more on-street parking within a shared streetscape environment similar to Broad Street for the existing section between Wharf Street and Yates Street.
- Exploring the opportunity to re-establish two way vehicle travel along Government Street through the Downtown.

Conceptual and detailed design based on these design directions and strategies will be undertaken as a key action item of this Plan.

As a more immediate, short term action, the street trees and planters between Wharf St and Yates St will be replaced, given their deteriorating condition and the desire to have a more suitable tree species that does not block views of heritage building facades. Street trees and planter types are specified in Part 3 of this document. As a part of this strategy, an irrigation system would also be installed. The tree and planter replacement as well as the irrigation system implementation would occur in stages to minimize impacts to the public realm.

- Potential long term improvements
- •••• Temporary interventions/ potential ideas

Complete the street

• Extend existing Government St. treatment and aesthetics between Wharf St. and Yates St. all the way to Pandora Street.



Envision long term change

• Curb-less shared street with multi-modal users freely moving through.



Replace street trees and planters

 Replace existing trees with dense canopy in planters with more transparent canopy trees that will allow the true heritage of Government Street to shine and



Encourage sense of shared space

Allow for temporary road closure to promote pedestrian environment and community building.



2.4.3 DOUGLAS STREET - TRANSIT ORIENTED CORRIDOR

Douglas Street is the City's traditional ceremonial and principal retail 'main' street. It has been a major north-south shopping and transit corridor for the last century. In recent years, its prominence has diminished somewhat as retail activity has shifted and dispersed to other downtown retail streets such as Government Street and Johnson Street as part of the revitalization of Old Town.

As the city's principal transit corridor and key gateway to downtown from the north, and as the transitional street between Old Town and New Town, Douglas Street is the spine of the Downtown and a major defining element of it. As such, the revitalization of Douglas Street as a key downtown promenade and transit priority corridor is an important opportunity for improving mobilitychoice both within and connecting to the downtown, and for creating a more liveable and identifiable downtown environment.

Therefore, a key action of this plan is to undertake planning and design for a significant reconfiguration of Douglas Street as a transit priority corridor

and pedestrian promenade, and to work with BC transit, senior levels of government, and other organizations stockholders and partners on implementation. Following are key directions and considerations to guide future planning and design for the Douglas Street Corridor through the downtown.

Envision long term change

- Human scale, pedestrian friendly corridor with transit focus
- · Unique character and scale of public realm elements and lighting
- · High quality streetscape
- Pedestrain friendly waiting zones and bus stops
- Multimodal with priority to pedestrians, bikes and transit



 Consider unique lighting strateg, including retaining the iconic cluster lamps that significantly contribute to the gateway of the capital city



 Consider central median as a pedestrian/ transit oriented zone with bus stops and plantings.



 Consider special paving treatment areas to encrease quality and safety

• Use temporary interventions to test long term visions

- Temporary street closures for community events.
- Claiming traffic lanes with artful street graphics.
- Extending bus lanes into the Downtown area.
- Using colour and paint to test ideas as part of public art program.



- Potential long term improvements
- •••• Temporary interventions/Potential pilot ideas

More space for people

- Temporary parklets as waiting zones for transit.
- Visual extension of pedestrian zone into parking areas.





3 STREETSCAPE STANDARDS

3.1 INTRO

This Streetscape Standards Section replaces the Downtown Beautification Strategy Manual and associated "kit-of-parts" first published in 1992. As a component of the City's Downtown Plan of that time, the older document initiated an on-going program in the expression of numerous distinctive character precincts in Victoria's city centre.

In the 1992 Beautification Manual, elements of the City's public realm were presented in varying groupings of colour and furnishing suites, intended to underline individual character and to provide contrast for the divergent identities of a variety of Downtown precincts. Over the last few decades, this program of enriched and diverse streetscape development has gradually led to visual clutter and inconsistencies throughout the Downtown area, decreasing the visual quality of Downtown Victoria's streetscapes.

Further, time has weathered the condition of the streetscape and painting program. Elements of the originally envisioned streetscape have not been put in place and some outdated elements are due for replacement. At the same time, Victoria's Downtown Core has expanded and the original character precincts have evolved.

The new Downtown Public Realm and Streetscape Guidelines represents a renewed and simplified palette of materials to help emphasize the existing heritage of built form, stimulate pedestrian interest, and guide orientation based on a the framework of character precincts and streets as shown in figure 7.

These streetscape guidelines are intended to be applied consistently throughout the downtown. However, they will require modification and adaptation to respond to specific conditions throughout the downtown.

It is important to note that these streetscape standards are intended to guide design and implementation of public sidewalks, and not necessarily private open spaces and plazas, which will require a design response unique to their specific contexts. However, the design and choice of materials for adjacent private open spaces and plazas will be sympathetic to the furnishings, materials, and patterning established by the streetscape standards.

Maintenance of this streetscape system will require a re-dedication of efforts as the downtown grows and changes. Moreover, a refashioning of the original Beautification Streetscape Initiative is needed to align this program to a steadily developing expanded Downtown Core.

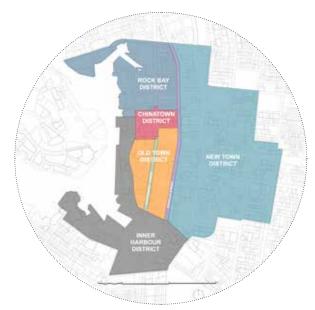


Fig. 7 Character precincts diagram



3.2 STREETSCAPE DESIGN PRINCIPLES

The development of the Streetscape Standards for Downtown Victoria has been guided by a clear set of Design Principles that have been established to help achieve the Vision Statement for the Downtown. Design Principles will continue to provide a guiding framework for frontage improvements, capital projects and priority public realm improvements implemented over the years ahead.

District Identity

The Streetscape Standards will seek to reinforce the unique identity of individual character areas within well-defined boundaries of Downtown as a whole. Streetscape designs for each character area will be coordinated to create a unified and cohesive character for the downtown.

Successful Businesses / Multi-Use Streets

Streetscapes will be developed to support successful businesses and allow for a variety of uses such as retail display, outdoor seating, street vendors, festivals, performances, etc.

Pedestrian & Transit Friendly Destination

The public realm design will give priority to the comfort, safety and accessibility of pedestrians, cyclists and transit users over the accommodation and convenience of private vehicles.

Waterfront Connection

The public realm design will physically, visually and thematically reinforce the Downtown's relationship to the waterfront.

Civic Connection

The development of unique character for Douglas Street and Government Street will reinforce the link between the Municipal Hall Complex and facilities along the waterfront.

Sustainability

The design, implementation and maintenance of the public realm will be socially, economically and environmentally sustainable.

High Quality / Long Life

The Standards will promote design strategies and material choices that will result in easy-to-maintain, durable and high quality streetscapes.

Flexible Implementation

The Standards will allow for implementation through phased and incremental development.

Accessibility

The public realm design will provide for universal accessibility in downtown Victoria through a comprehensive material palette.









3.3 STREETSCAPE STRATEGIES

Four key strategies have been developed to achieve the design principles and help focus implementation and application of new developed standards over time.

STRATEGIES

Featured Corner

High quality materials and unique layout design focused on all street corners.

High Quality Street Trees

Great and healthy trees contribute to creating great streets. With limitation on green infrastructure in the Downtown core, it is critical to provide a healthy growing environment for all street trees.

Simplified Sidewalk Treatment

In order to balance high quality corner treatments, sidewalks are designed to be simple and durable with only slight variations of patterns.

Unified Streetscape Elements

Glossy black becomes a streetscape elements standard and the number of already existing elements is being reduced to a minimum.

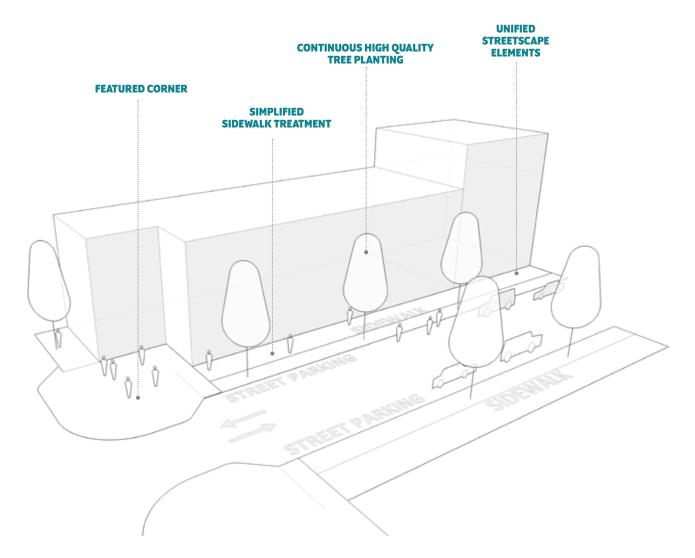


Fig. 8 Streetscape Strategies Diagram

3.3.1 CORNER BUMP OUTS

INTENT

Where traffic movement and the arrangement of adjoining parcels permit, new street corner bump-outs will be developed to provide a range of benefits aimed at improving the pedestrian environment, including:

- Increased room for waiting and circulation.
- · Improved sense of pedestrian safety.
- Reduced length of crosswalks.
- Improved connectivity throughout Downtown.

APPLICATION

New bump-outs are proposed at all street corners except in the following situations:

- · Where a bump-out already exists.
- Where bus stops occur.
- Where conflicts arise with the arrangement and configuration of the adjoining parcel, such as where existing driveways are in conflict.
- Where conflicts arise with the current road configuration, such as where right turn lanes are in conflict.
- · Where it is deemed impractical due to vehicle turning requirements.
- · Where other circumstances are deemed to be in conflict.
- Narrower streets of Old Town where a unique street pattern is already established.

TYPICAL BUMP OUT LAYOUT

Zone 1: Uninterrupted walking zone

Paving material as per Character Area specifications.

Zone 2: Uninterrupted crossing zone

 Tactile stainless steel domes as specified in this document and to be located and installed according to the City of Victoria Subdivision and Servicing By-law.

Zone 3: Outdoor room

- · Single chair seating arranged to face one another.
- Where enough room is available, backless wood benches could be used with a chair combination.
- Outdoor rooms should be located along quieter street.

Zone 4: Furniture zone and wayfinding

- Typical furnishing includes: trash bin, bike racks, street light poles, traffic signal poles, pedestrian lighting.
- Wayfinding pilon signs when needed.
- In addition to waste receptacles available, multi-stream receptacles are to be used when appropriate on a case by case basis, as approved by the City of Victoria. See Part 5 Streetscape Catalogue for details and specifications.

Note: Please refer to City of Victoria Wayfinding Strategy for signage details and location guidelines.

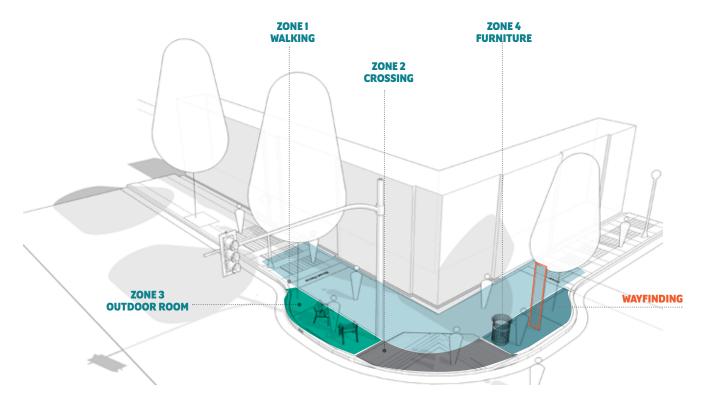


Fig. 9 Typical Bump Out Diagram

SCENARIO 1

Corner with bulges on both sides would include:

- Tree planting at both bulges when possible.
- Outdoor room zone and furnishing zone.
- Feature paving elements: both entry bands, curved feature band.
- Street names at entry bands.
- Bollards at curb's edge.

SCENARIO 2

Corner with bulge on one side would include:

- Tree planting at bulge side.
- Outdoor room zone or furnishing zone at bulge side.
- Feature paving elements: both entry bands, curved feature band.
- Street names at entry bands.
- Bollards at curb's edge.

SCENARIO 3

Corner without bump out would include:

- · Feature paving elements: entry bands only.
- Street names at entry bands.
- Only 2 bollards at curb's edge flanking the corner.

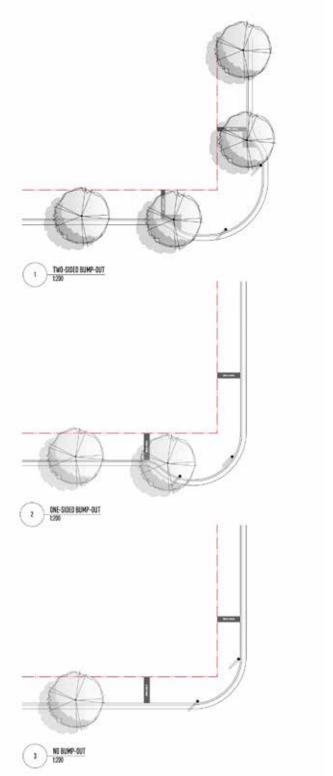


Fig. 10 Bump Out Scenarios

3.3.2 MID-BLOCK BUMP-OUTS AND CROSSINGS

Mid-block crossings are locations of marked crosswalks between intersections. The crosswalk may be signalized or not. They provide convenient locations for pedestrians to cross mid block in areas with infrequent intersection crossings.

INTENT

Where traffic movement and the arrangement of adjoining parcels permit, new street mid-block bump-outs would be developed to provide a range of benefits aimed at improving the pedestrian environment, including:

- Increased opportunity to cross mid-block.
- Increased room for waiting and circulation.
- Improved sense of pedestrian safety.
- Reduced length of crosswalks.
- Improved connectivity throughout Downtown.
- Improved pedestrian priority throughout Downtown.

APPLICATION

New mid-block bump-outs are proposed at all streets locations with all of the following conditions:

- Where parallel parking allocation exists at street edge and can be adopted for bump out mid block.
- Where it does not interfere with transit operations
- Where adjacent building uses allow for sidewalk expansion into the parking zone.
- Where there is a need to reduce the length of the street block for better pedestrian circulation.
- At all locations where lanes meet the City streets if there are no conflicts with vehicular maneuvering.

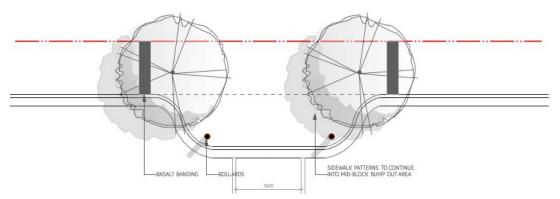


Fig. 11 Mid Block Bump Out Diagram

3.3.3 TREE PLANTING

Street trees are City owned infrastructure and a key component of public streets. The planting of street trees in the Downtown core began in the 1960's. Over time, a number of trees have been removed and new trees have been planted in some locations, resulting in a mix of species and vitality. These streetscape standards aim to improve trees in the Downtown core by adding additional street trees, and provide guidelines for replanting when a tree is removed.

INTENT

The general objectives of the street tree strategy are to:

- Increase the extent of the tree canopy within the Downtown Area.
- Increase the general health and long term success of tree planting.
- Retain existing healthy trees where possible.
- Improve growing conditions of existing trees where possible.
- Provide the best growing conditions possible for new tree plantings.
- Selectively remove and replace unhealthy or unsuitable trees.

New tree planting is proposed to achieve the objectives established in the Urban Forest Master Plan

- Achieve regularly spaced street trees along all streets to provide visual continuity.
- 2. Develop and maintain strong community-wide support for the urban forest.
- 3. Protect, enhance and expand Victoria's urban forest.
- Design and manage the urban forest to maximize watershed health, biodiversity, and the conservation of sensitive ecosystems.
- 5. Maximize community benefits from the urban forest in all neighbourhoods.

STREET TREE REQUIREMENTS

New street trees should conform to the City of Victoria Downtown Tree Specifications. All plant material must meet or exceed the 'Canadian Standards for Nursery Stock' set out by the CNLA and BCLNA.

City of Victoria Downtown Tree Specifications:

- · Healthy and vigorous standard shade trees.
- True to name, type and form with no substitutions.
- One dominant central leader or single straight trunk.
- The caliper measured at 15 cm above the ground to be 6cm 8cm.
- Well branched balanced heads.
- Branching must start at between 1.5 2.5 m above the ground.
- No crossing or rubbing branches, included bark or other flaws which could affect the tree's long-term health or structure.
- B&B Trees shall be hand or machine dug, placed in wire baskets or wrapped in burlap and secured with ropes (balled and burlapped) in such a way as to not damage the root, crown or trunk.
- Potted Trees shall be free of girdling and/or circling roots from previous pottings.
- With adequate fibrous and absorptive roots developed by the proper cultivation, transplanting and root pruning to enable the full recovery of the tree.
- No more than 2" from the top of the prepared rootball to the root flair.
- Free of all known diseases, insect infestations, defects, sunscald injuries, abrasions and decay.
- $\bullet \qquad \hbox{No perennial weeds must be contained in the soil root ball or growing media.}$
- 1 year replacement warranty.

TREE SPECIES AND HARDSCAPE PLANTING SELECTION

Appropriate street tree selection is critical to the overall urban forest management and stormwater management strategies of the City, as well as creating great streets in Victoria Downtown. Ideally, selecting species that are long-lived and can be raised over time to reduce obstructions at the street and sidewalk level is preferable to short-lived trees or small trees that will have minimal impact or presence on the street. Refer to City of Victoria Preferred Tree List for Hardscaped Areas for a list of approved tree species in the Downtown area.

INTENT

- To have long-lived, healthy and large-scaled street trees in Downtown.
- To have street trees that address stormwater management and provide habitat for local fauna.
- To diversify tree species in park areas and within the public realm.
- To increase mature tree canopy size in order to mitigate urban heat island effect.

For tree planting strategies in the Downtown Core, refer to the Urban Forest Master Plan.

TREE PLANTING DETAILS

Planting conditions are critical to the success of street trees in urban environments. Soil quality and volume are two aspects that are crucial to the health of street trees. Without either, the life of planted street trees is dramatically reduced and the benefits they bring to the city and neighbourhood diminish in proportion.

The majority of past streetscape improvements and building construction projects provided minimal soil volumes, and often compacted the small volumes of soil which remained. Base compaction of material prevents tree roots from penetrating the native soil below. If the tree pit has minimal soil volume, the tree suffers and cannot reach its natural size. There are a number of measures for improving planting conditions in urban environments that are becoming standard across North America. These affect not only the street tree quality, but also stormwater management, urban forestry, biodiversity, long term maintenance, durability and resilience - all of which support the City of Victoria's sustainability goals. It is recommended that soil cells should be used when ever possible.

INTENT

- Ensure there is adequate soil / growing medium to produce healthy large scale street trees.
- Ensure there is adequate above ground and below ground space for the species selected.

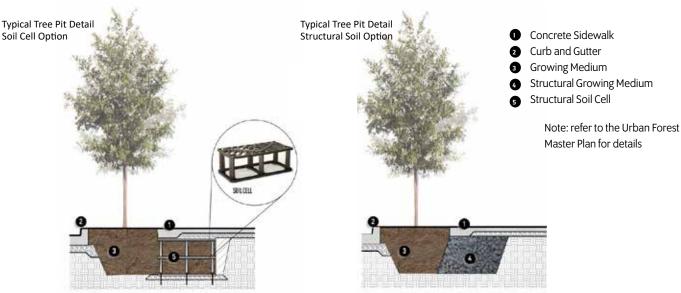


Fig. 12 Tree Pit Details

TREE PLACEMENT

The Public Realm Plan proposes a simplified pattern of locating new street tree planting in relation to proposed paving patterns and the established boulevard zone.

- See character areas section for detailed guidelines on tree spacing for each zone.
- All street trees should be planted in a tree pit with a 450mm offset from the curb line. See diagram below for details.

For details on Site/Growing Conditions, and Structural Soils requirements, please refer to page 43 and 44 of UFMP document.

The Public Realm Plan proposes a simplified approach to tree selection that is based on general recommendations of:

- Size: large, medium, small
- Form: columnar, rounded, broad
- · Canopy coverage: dense, transparent

Following sections of the document specify the key typologies for each Character Area based on these elements. Please refer to Character Areas section for detailed recommendations.

TREE RECOMMENDATIONS

SQUARE TREE GRATE

METAL TREE GUARD





Typical Square Tree Grate and Tree Guards to be used in all precincts. For details, please refer to Part 5 Streetscape Catalog.

 Note: Alternative Round Tree Grate option is available when more flexibility is required or Square Tree Grate cannot be accommodated. See Furnishing section of Part 5 Streetscape Catalog for details.

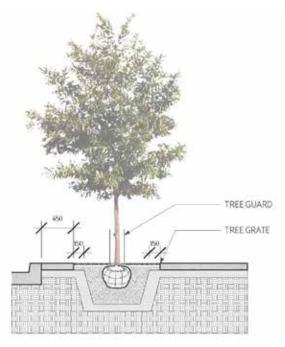
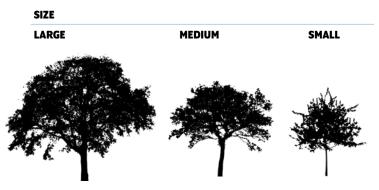


Fig. 13 Tree Grate Detail



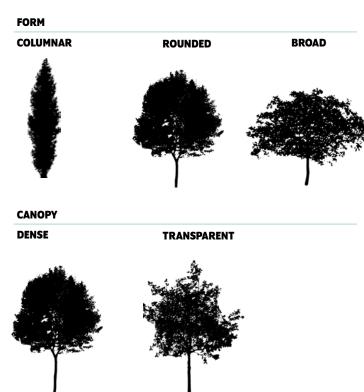


Fig. 14 Tree Typologies

5.3.1 SIDEWALK TREATMENTS

INTENT

The Public Realm Plan proposes a palette of simplified paving materials and patterns for all Downtown sidewalks including sand blasted cast-in-place concrete and broom finish concrete. Reducing the number of materials for all sidewalks treatment allows for a more coherent environment:

- Simplified materials.
- Simplified patterns.
- Simplified maintenance and reduced inventory of replacement paver types.
- Improved sense of pedestrian safety and accessibility.
- · Improved surface consistency and quality.
- Improved connectivity across Downtown.
- Increased opportunity to reduce clutter.

Use of concrete as a general sidewalk material with only slight variations in patterns allow for coherency for all of Downtown as well as for Feature Corners to stand out.

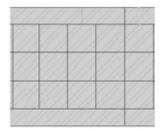
APPLICATION

There are four distinct sidewalk patterns developed that are applied throughout Downtown. All are characterized by common layout elements:

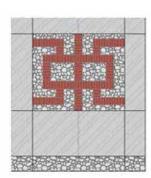
- · Fine broomed finish.
- Trowel jointing.
- Cast-in-place concrete field with the exception of Chinatown area that carries its own custom brick pattern in an exposed concrete field.
- Note: refer to character areas guidelines for detailed layout guidelines for each pattern.

NOTE: The patterns below are only demonstrative of the patterns present in each precinct. For details of paving materials application and layout guidelines, please see section 5.1 Character Areas Section of this document.

OLD TOWN AND INNER HARBOUR PATTERN



CHINATOWN PATTERN



 NOTE: Please refer to section 3.4 Character Area Section for specification of the different Chinatown paving patterns.

EXISTING FEATURE PAVING

There are a number of areas throughout Downtown where special paving treatments exist and differ greatly from new proposed sidewalk patterns for these areas.

Key areas and elements identified are:

- Broad Street a unique street with a comprehensive, unique and distinct paving pattern.
- 2. Yates Street between Douglas St. and Blanchard St. strong and distinctive brick paving pattern with shades of yellow and burgundy brick.
- 3. Areas of Old Town such as Wharf Street large continuous treatments of unique concrete pavers.
- 4. Feature blue-and-white street name tiles in limited locations throughout Downtown

Recommendations for those area are as follows:

- Existing paving patterns should be maintained for the foreseeable future.
- When larger area improvement becomes necessary, it is recommended to undertake full block replacement to avoid patchwork approach and piece meal condition.
- New paving system will not be applied unless the entire block face is replaced.
- Maintain and restore all existing ceramic tile names throughout the downtown to the greatest extent possible.



NEW TOWN AND ROCK BAY PATTERN

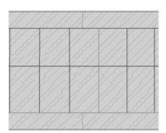


Fig. 15 Sidewalk Treatment Patterns

5.3.2 STREETSCAPE ELEMENTS

INTENT

The Public Realm Plan is premised on decluttering and simplification of streetscape elements and furnishing to create a "quiet canvas" for the rich architectural and heritage fabric in the downtown. This includes:

- Identifying opportunities to reduce clutter.
- Implementing a unified palette of furnishing and materials while distinguishing a reduced number of unique character precincts.
- · Implementing a unified colour palette.
- · Improving the sense of pedestrian comfort and safety.
- Improving the quality of materials.
- Creating a unique style and character for Downtown as a whole.

APPLICATION

A simplified palette of furnishing and street lights will be applied to all areas in Downtown.

KEY STRATEGIES

- · Use of glossy black as unifying colour.
- Removal of all unnecessary elements not specified in this guideline.
- · Use only furnishings specified in this document.
- Establish a defined boulevard/furnishing zone to locate site furnishings and maintain a sufficient pedestrian zone.
- Focus higher quality materials and features on street corners.

FURNISHING PLACEMENT - BOULEVARD ZONE

- All streetscape elements must be located within the 1.2 m boulevard zone of the sidewalks to allow uninterrupted sidewalk walking zone clear of elements.
- With sidewalks narrower than 2m, all elements shall be placed as close to the curb line as possible.
- In addition to waste receptacles available, multi-stream receptacles are to be used when appropriate on a case by case basis, as approved by the City of Victoria. See Part 5 Streetscape Catalogue for details and specifications.

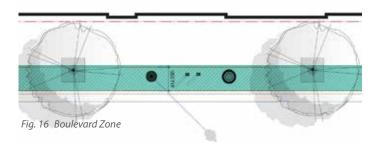








Examples of established furniture palette in Downtown



5.3.3 ACCESSIBILITY

INTENT

The Public Realm Plan proposes a materials palette that will facilitate barrier-free universal accessibility throughout Victoria's downtown public realm.

- Create a barrier-free universally accessible environment within the downtown Victoria public realm.
- Use long-lasting, quality materials that are easily accessible and promote safety for all ages and abilities.
- Implement the tactile dome strategy to alert people with visual impairments.

KEY STRATEGY

Accessibility approaches includes the use of tactile elements embedded within the sidewalk to alert people with visual impairments.

Currently the city is developing a tactile dome strategy, with pilot projects in the Downtown. Once complete, tactile dome standards will be established and set out in the City of Victoria's Sub-division and Servicing By-laws.



Tactile buttons

5.3.4 LIGHTING STRATEGY

INTENT

The lighting strategy is premised on enhancing the Downtown's unique and identifiable character and helping to distinguish defined heritage precincts while ensuring durability, maintenance and overall sustainability of pedestrian lighting assets.

This is achieved by focusing and distinguishing the use of the iconic globe/ cluster pedestrian light within the Old Town and Inner Harbour Character precincts, and along key corridors as shown in figure 18.

- maintaining the historic feature lighting in Bastion Square and Chinatown
- implementing a new 'modern heritage style' pedestrian light standard within the New Town and Rock Bay character precincts.

The development and implementation of a new downtown pedestrian light strategy is a key action item of this Plan. The pedestrian light strategy will identify a design specification for a new light standard for the areas identified in figure 18 based on the following general performance objectives:

- Based on the 'modern heritage, lantern style light included in this document.
- Is durable and cost effective to install, maintain and replace/source
- Achieves dark sky and energy efficient requirements.
- Is sympathetic to the rock bay and newtown character precincts
- Supports other city initiatives and strategies

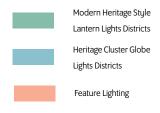
KEY STRATEGIES

- Use of glossy black as unifying colour for all lights, including street lights.
- Utilize street lights pole for placement of pedestrian lights.
- Use light typologies specified in this document only.
- Use boulevard zones for placement of all pedestrian and street lights.
- Use furnishing zone at corner bump outs for placement of pedestrian lights.

LIGHTING TYPOLOGIES

There will be two typologies of pedestrian lights that are distributed throughout Downtown with feature lights applied to specific areas. See diagram below for distribution of light types

- Heritage Cluster Globe light: city designed mold
- Modern Heritage Style Lantern light: Identified and implemented in phases within the New Town and Rock Bay character precincts
- Feature Lights: China Town Lantern Lights, Bastion Square Heritage Lights, Centennial Square Pedestrian Lights, Harbour Pathway Feature Lights



The lighting design will allow for flexibility to mix and match pole and base style with selected lighting typology that is needed for a particular location.

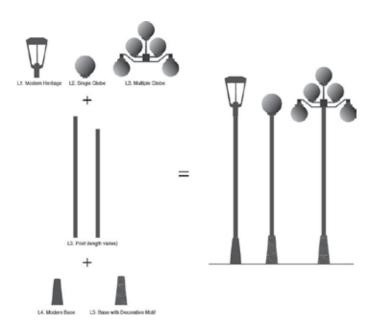


Fig. 17 Lighting Fixture Strategy Diagram



Fig. 18 Lighting Typology Distribution Diagram

5.3.5 PUBLIC ART AND CULTURE STRATEGY

The Arts and Culture Master Plan and Art in Public Places Policy are important companion documents to this plan. These documents should be used in tandem with this plan to guide implementation of the following strategies as opportunities arise.

PUBLIC EVENTS, STREET AND LANEWAY CLOSURES

Roads and laneways are seen as natural extensions to events that are already beginning to occur within Downtown. The temporary closure of streets and laneways provide opportunities for art and festivals. These spaces can be returned to their everyday use after events and can also be updated with the necessary infrastructure to help facilitate those events.

• Encourage and reinforce road and laneway closures for special events.

CREATIVE SIGNAGE ON BUILDING FACADES

Encourage businesses to work with local artists to create imaginative and extraordinary commercial signage which will simultaneously add to the night-time experience and allow for development of a vital and exciting media exploration while ensuring compatibility with the heritage context and objectives.

- Encourage signage to reinforce diverse, eclectic and artistic character.
- Update guidelines and signage.

MURALS ON BLANK WALLS

Blank walls in the downtown can be thought of as "canvases for public art". Indeed, many blank walls in the downtown have already been converted to attractive murals, a practice that is encouraged to continue, specifically to reinforce the diverse, eclectic, history and artistic character of the downtown. The Arts and Culture Master Plan together with the Art in Public Places Policy provide guidance to implementation of murals throughout the City.

PUBLIC ART @ HARBOUR PATHWAY

This is suggested as a way to reinforce the waterfront experience along the David Foster Harbour Pathway as the epicentre of a vital and imaginative community, where temporary painting of the path can create an ever

changing environmental experience for visitors and users of the area. This would be an opportunity for artists and community groups to work together to create temporary masterpieces in the spirit of renewable excitement and empowerment.

PUBLIC ART ON SIDEWALKS

It is proposed that a series of engraving patterns, stamping or inlaid cast iron elements, be installed within Downtown sidewalk. Additionally, it is proposed to have engraving/sandblast patterns in all areas on the entry bands as well as a linear boulevard band along Douglas Street.

Inscribed basalt slabs located in the entry bands would create a repeated or connected motif forming a necklace of artwork connecting streets in the Downtown Core. At each corner, there would be basalt entry banding slabs inlaid with the street name inscribed on its surface. As a part of the same approach, it is proposed that public art pieces are introduced at the ground plane of feature locations such as small plazas and key building entries, and be inlaid in basalt slabs or cast in iron and placed in concrete sidewalks. The selected works could be garnered by a competition to choose one or more artists. This approach would be simple to install and could be implemented over time.

The idea behind the Public Art Strategy is to help link the neighbourhoods with iconic 'drawings in stone' in such a way that they do not overpower the material palette of the sidewalks but rather complement, in a quiet and localized way, the material choices of the surrounding environment.

SITE FURNISHINGS AS PUBLIC ART

It is recommended that when appropriate, site furnishing can be used as public art elements or display such as special red bench in Inner Harbour area along the Government St. to celebrate Victoria as the most romantic city in Canada.



Temporary Street Painting



Creative Signage



Murals



5.1 CHARACTER AREAS

There is a long history of identification of distinctive character areas in Downtown Victoria. Since the early twentieth century, precincts such as the Inner Harbour Causeway/ Provincial Legislative area, the Chinatown area, and the Old Town area have been recognized as diverse components of a compact, multi-faceted city core. The Downtown Core Area Plan advances this pattern, reconfirming and strengthening long established character areas of Chinatown, Old Town and the Inner Harbour while looking ahead to the evolution of more contemporary areas in the growing City Core, namely Rock Bay and New Town districts.

The Public Realm Plan builds on the established pattern and general intent of beautification districts, while reducing the number of character precincts and simplifying the overall downtown palette of materials and furnishings. This is to better emphasize and distinguish Old Town, the Inner Harbour and Chinatown districts, while creating a more unified and cohesive public realm overall.

The following section of this document focuses on detailed design of a unique character and typologies for each of the districts shown on the map below.

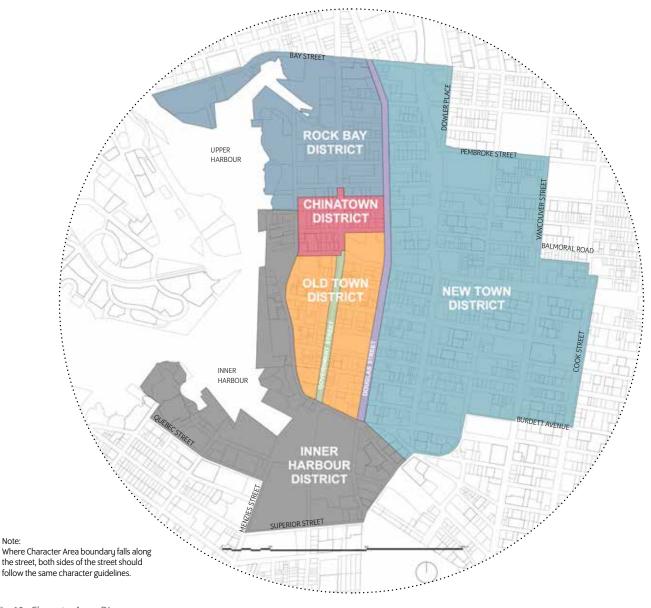
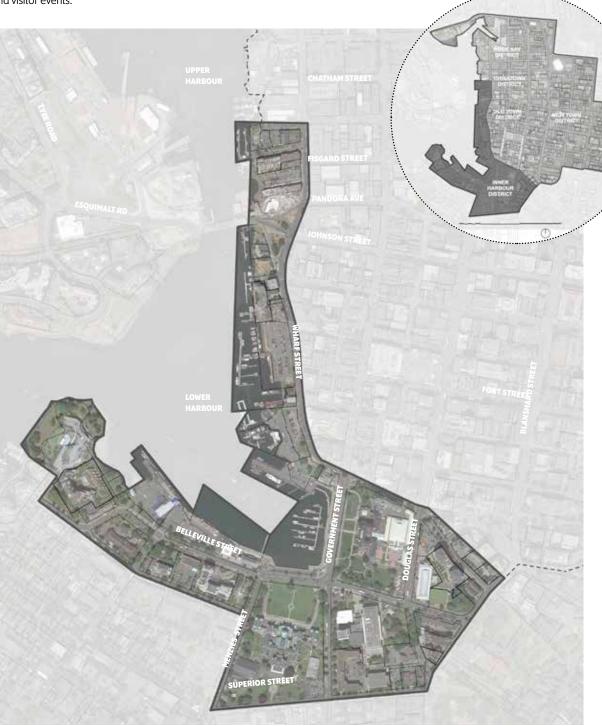


Fig. 19 Character Areas Diagram

5.1.1 INNER HARBOUR

The Inner Harbour District encompasses areas fronting Victoria's Harbour, extending from the Johnson Street Bridge, to Laurel Point, and includes the Legislative Precinct. This district features a distinctive array of functions: maritime transportation, visitor services, cultural and entertainment activities, institutional and Provincial Capital government agencies, and seasonal community and visitor events.



INNER HARBOUR PAVING MATERIALS

0

TROWEL JOINT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill and frame
- Colour: Natural
- Finish: Fine broom finish

2

GRANITE PAVERS



- Dimensions: 300mm x 100mm x 80mm
- Installation Method: Mortar set
- Application: Paving field
- Colours: Grey granite
- Finish: Flamed



BASALT PAVERS

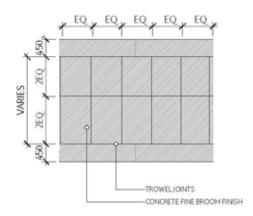


- Dimensions: 300mm x 450mm x 80mm
- Application: Entry banding
- Colour: Grey
- · Finish: Flamed



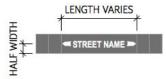
INNER HARBOUR PAVING APPLICATIONS

- SIDEWALK -----
 - 600mm score line pattern perpendicular to the curb with a centre line parallel to the curb
 - 450 mm concrete band along curb and building face
 - Control joints shall be provided accross 450mm bands every
 - Narrow sidewalks 2m or less: eliminate 450mm banding along building face from the pattern



BASALT ENTRY BANDING WITH STREET NAME INSERT

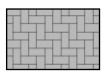
- Pattern: 450mm wide single row soldier course $\,$ band with larger slab where street name appears
- Material: Streetname Sandblasted into basalt slabs
- Font: Tisa Pro Bold, all caps
- Note: Care should be taken to the letter spacing and kerning





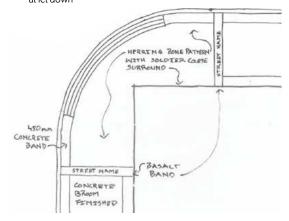
Paving field

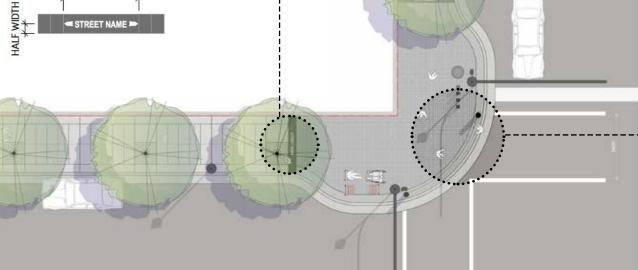
- Pattern: Herringbone with a single row soldier course along the edge
- Installation: Mortar set



Tactile band

continuous 450mm concrete band adjacend to curb with tactile scoring at let down



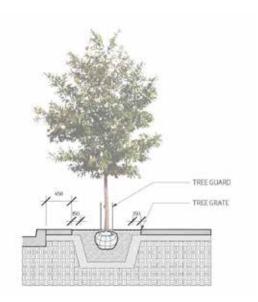


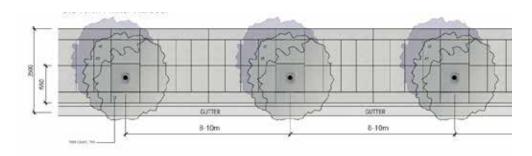
INNER HARBOUR PLANTING DETAILS

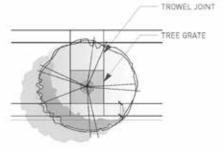
APPLICATION

For all sidewalks in the Inner Harbour area there are be two types of trees-in-sidewalk condition:

- 1. Adaptation of existing tree locations to sidewalk improvements:
 - Small modifications of proposed trowel joint pattern are recommended to best accommodate for existing tree locations. Detailed design and recommendations to be provided on a case-by-case basis for each improvement area.
 - Use of proposed poured-in-place resin bound material instead of tree grates is highly recommended to best accommodate heaving and overgrown tree routes and large tree trunks.
- 2. New development condition:
 - A street tree spacing of between 8 10 metres is desired
 - Tree grates should be set in a concrete band that runs across the sidewalk from curb to building face as illustrated on the diagram below with trowel joint defining the band always aligned with tree grates
 - Street trees should be sited to correspond with architectural features of building frontage when possible

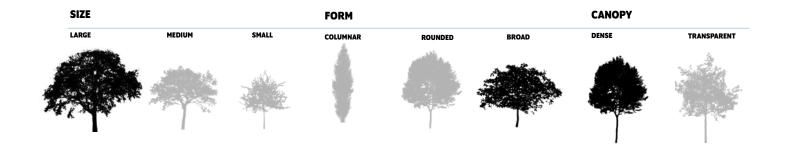






Tree grates define bands in the sidewalk pattern as illustrated on the diagram above

INNER HARBOUR RECOMMENDED TREE TYPOLOGIES



INNER HARBOUR FURNISHING

Inner Harbour's palette of site furnishing is currently black and is recommended to remain black. It complements the very formal legislative precinct of Downtown and allows for simplification and elevated elegance. Furniture suite in this area is proposed to stay within a heritage character to emphasize its unique surroundings.

BOLLARDS

TYPE A



TYPE B



Type A Bollard: Heritage style

Application: All corners and plazas, feature areas

Type B Bollard: Modern style

Application: case by case when needed

TRASH BINS



Type A: Modern Metal Bin

- Application: All Streets except corners, Government Street and Belleuve Street
- Multi-stream recycling receptacles are to be used when appropriate on a case by case basis

TYPE B



Type B: Heritage Bin

- Application: All corners and Government Street, Belleville Street and plazas
- Note: When possible, place at least 1 bin at corner bump out

BIKE RACK



Downtown Bike Rack

- Application: All areas
- Note: To be installed in boulevard zones of the sidewalk

BENCHES CHAIR

TYPE A

TYPE B



Type A: Heritage style with back

Application: plazas and feature locations



Type B: Heritage style without back

Application: Corner bump outs, sidewalk boulevards and plazas



Chair seat: Heritage style with back

- Application: Corner bump outs at outdoor room zones, wider sidewalk boulevards and plazas
- Note: Minimum of 2 chairs shall be placed at each location where possible

INNER HARBOUR LIGHTING

Inner Harbour area's lighting plays an important role for Downtown and for the Harbour. It is the most exposed and visible area for all arriving in Victoria by air, water and on ground. For that reason it is to retain its current globe cluster lighting as the feature lighting for all streets within this area.

PEDESTRIAN LIGHTS

SINGLE GLOBE LIGHT



CLUSTER GLOBE LIGHT TYPE A



Heritage Single Globe

Application: Small Plazas (such as Belleville Plaza), residential streets

Heritage Cluster Globe Type A : Circular

- Application: All Major Streets and Larger Plazas, Fort Street, Yates Street
- Notes: Place lights perpendicular to the curb

CLUSTER GLOBE LIGHT TYPE B

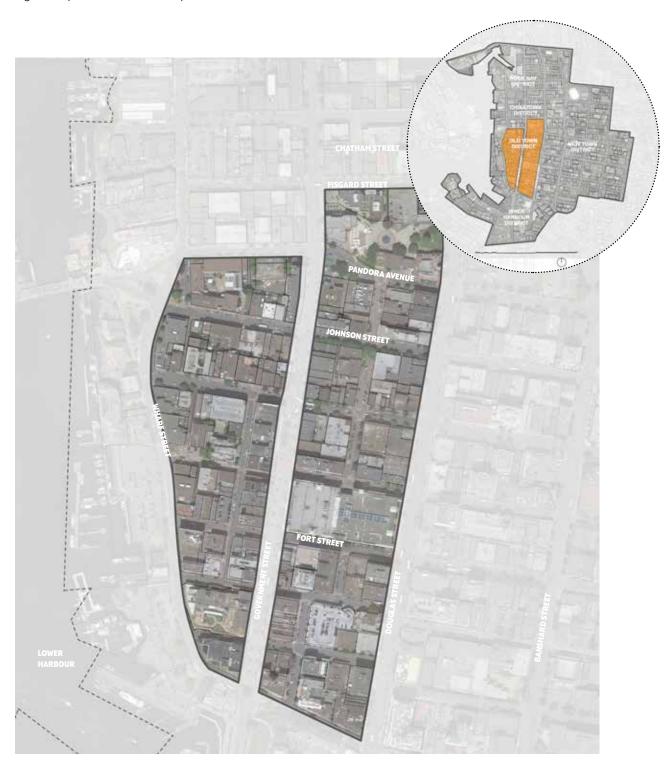


Heritage Cluster Globe Type B: Aligned

- Application: All Major Streets and Larger Plazas
- Notes: Place lights perpendicular to the curb

5.1.2 OLD TOWN

Old Town's ambiance, unhurried pedestrian appeal, and picturesque continuous street-wall enclosure and irregular street character are all typical of this District. Use of rich and timeless brick in combination with black and simple furnishings will emphasize its distinct and sophisticated charm.



OLD TOWN PAVING MATERIALS

1 TROWEL JOINT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill and frame
- Colour: Natural
- Finish: Fine broom finish

BRICK PAVER TYPE C



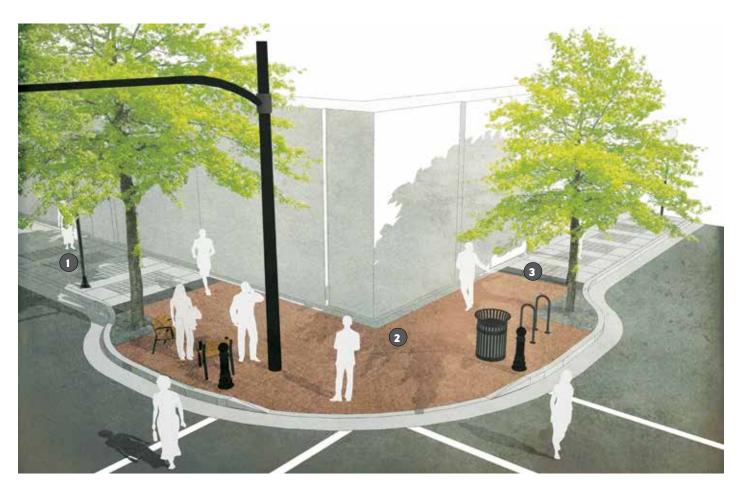
- Dimensions: 94mm x 194mm x 57mm
- Application: Paving field
- Colours: Red brick
- · Finish: Honed
- Installation Method: Mortar set

3

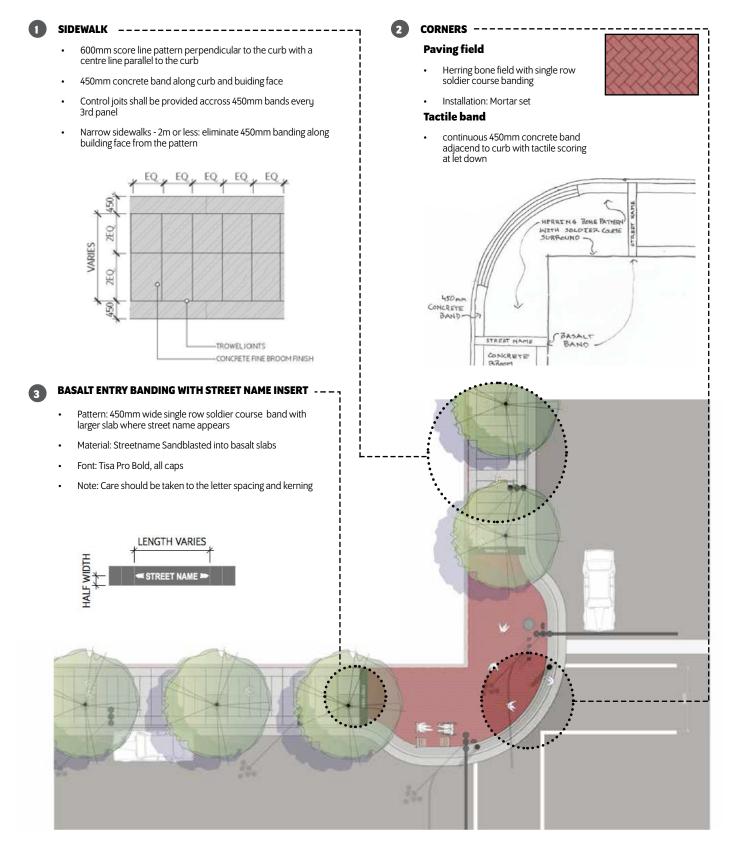
BASALT PAVERS



- Dimensions: 300mm x 450mm x 80mm
- Application: Entry banding
- Colour: Grey
- · Finish: Flamed
- Installation Method: Mortar set



OLD TOWN PAVING APPLICATIONS

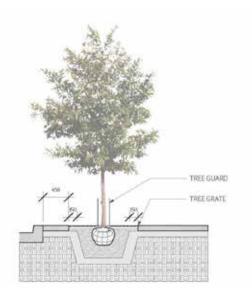


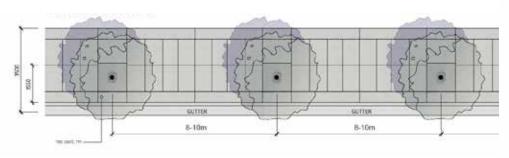
OLD TOWN PLANTING DETAILS

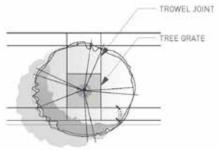
APPLICATION

For all sidewalks in Old Town area there are be two types of trees-in-sidewalk condition:

- 1. Adaptation of existing tree locations to sidewalk improvements:
 - Small modifications of proposed trowel joint pattern are recommended to best accommodate for existing tree locations. Detailed design and recommendations to be provided on a case-by-case basis for each improvement area.
 - Use of proposed poured-in-place resin bound material instead of tree grates is highly recommended to best accommodate heaving and overgrown tree routes and large tree trunks.
- 2. New development condition:
 - A street tree spacing of between 8 10 metres is desired
 - Tree grates should be set in a concrete band that runs across the sidewalk from curb to building face as illustrated on the diagram below with trowel joint defining the band always aligned with tree grates
 - Street trees should be sited to correspond with architectural features of building frontage when possible

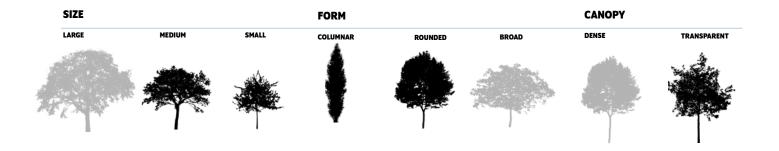






Tree grates define bands in the sidewalk pattern as illustrated on the diagram above

OLD TOWN RECOMMENDED TREE TYPOLOGIES



OLD TOWN FURNISHING

Old Town is characterized by a rich urban fabric and clear definition of street walls. It is the district with the strongest heritage presence and shall be maintained in the same way. Use of iconic globe lights, heritage trash bins and heritage bollards add to the overall character and richness. The glossy black palette will help simplify and elevate the elegance in the area.

BOLLARDS

TYPE A



TYPE B



Type A Bollard: Heritage style

Application: Feature plazas and other special public spaces such as Waddington Alley and Bastion Square Type B Bollard: Modern style

Application: Corner bump outs and all other locations where vertical separation is needed

TRASH BINS

TYPE A



Type A: Modern Metal Bin

- Application: All Streets except corners and Government Street
- Multi-stream recycling receptacles are to be used when appropriate on a case by case basis

TYPE B



Type B: Heritage Bin

- Application: All corners, Government Street and plazas
- Note: When possible place at least 1 bin at corner bump out

BIKE RACK



Downtown Bike Rack

Application: All areas Downtown, except Chinatown

BENCHES CHAIR

TYPE A

TYPE B



Type A: Heritage style with back

Application: plazas and feature locations



Type B: Heritage style without back

Application: Corner bump outs, sidewalk boulevards and plazas



Chair seat: Heritage style with back

- Application: Corner bump outs at outdoor room zones and plazas
- Note: minimum of 2 chairs shall be placed at each location

OLD TOWN LIGHTING

Pedestrian lights play an important role in the public realm. They bring and elevate the character of the street and can become an icon, such as globe cluster lights in the Downtown area.

Cluster Lights are proposed to be kept in all locations in the Old Town district as they gracefully add to the richness of its streets.

PEDESTRIAN LIGHTS

SINGLE GLOBE LIGHT



Heritage Single Globe

Application: Small plazas (such as Homecoming Plaza), residential

CLUSTER GLOBE LIGHT TYPE A



Heritage Cluster Globe Type A : Circular

- Application: All major streets and larger plazas, Fort Street, Yates Street
- Notes: Place lights perpendicular to the curb

CLUSTER GLOBE LIGHT TYPE B

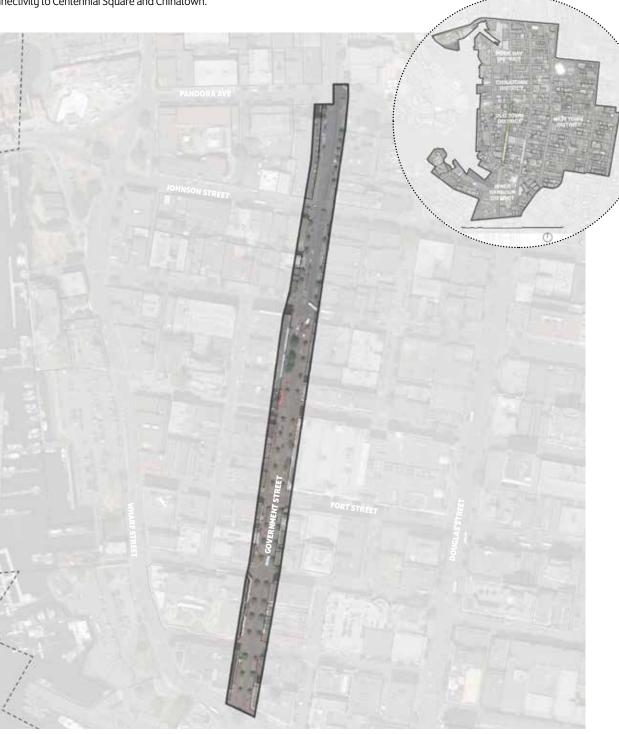


Heritage Cluster Globe Type B: Aligned

- Application: All major streets and larger plazas, Government Street Mall
- Notes: Place lights perpendicular to the curb

5.1.3 GOVERNMENT STREET MALL

Government Street's distinctive character as a pedestrian oriented retail street featuring roll curbs and brick paving, is well established. The street is visited frequently by tourists and locals. A continuation of this general character is proposed to be extended to Pandora street, Fisgard or Pembroke Street (to be determined through the conceptual design phase) for better connectivity to Centennial Square and Chinatown.



GOVERNMENT STREET PAVING MATERIALS



BRICK PAVER TYPE A



- Dimensions: 94mm x 194mm x 57mm
- Installation Method: Mortar set
- Application: Main paving field, boulevard band
- Installation Method: Mortar set



BASALT BAND



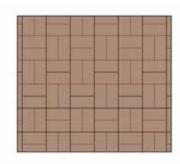
- Dimensions: 300mm x 450mm x 80mm
- Installation Method: Mortar set
- Application: Basalt entry banding



GOVERNMENT STREET PAVING APPLICATIONS

SIDEWALK -----

- Pattern: Basket weave (continuation of existing pattern)
- Note: Equal spacing for pattern consistency takes priority over architectural coordination



2

BRICK BOULEVARD BANDING -

- Material: Brick Paver Type A
- Pattern: As per illustration bellow (continuation of existing pattern)

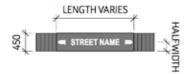
Government Street paving pattern with it's mall character extends between Wharf Street and Pandora St. This treatment is characterized by:

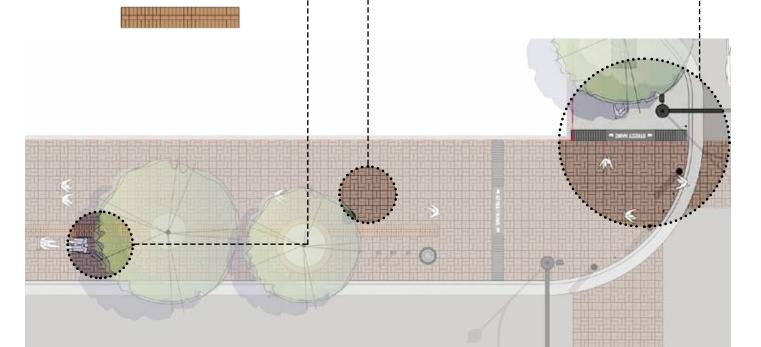
- Roll curb or no curb environment.
- Wide boulevard zone for furnishing.
- Brick paving throughout from building face to curb and across intersection areas.
- Brick paving at pedestrian crossings.
- Basalt entry bands with street names are introduced to match the standard bump out strategy in the rest of Downtown.



STREET NAME INSERT -----

- Material: Streetname Sandblasted into basalt slabs
- · Font: Match existing
- Size: single granite slab





GOVERNMENT STREET FEATURE ELEMENTS

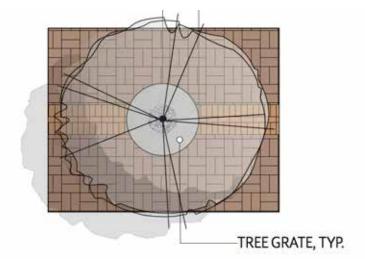
Government Street Mall is a key street in Old Town District and takes on the same furnishing suite but with the addition of new planters and street trees to replace existing horn beams in concrete planters which are nearing the end of their life. Specific planters, seating and street trees will be determined as part of future detailed design of this section of Government street.

ROUND SEATING PLANTER



- Modern metal planter with wood seating
- Application: Boulevard zone of the street
- Notes: Replace all existing concrete planters with new metal planter
- Product: Green circular benches by StreeLife
- (See specifications in Appendix for details)

TREE PLANTING RECOMMENDATIONS



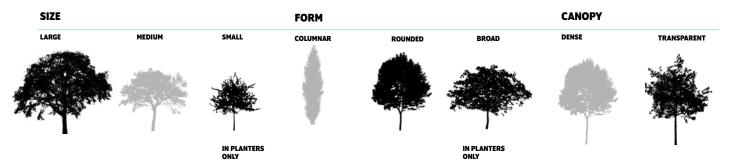
Recommendations:

Planters:

- Light and transparent canopy.
- Adaptable to planters conditions.
- Tall volume for better pedestrian circulation and car circulation.
- Low maintenance.
- Note: Please refer to City of Victoria Urban Forest Master Plan for tree planting strategies.

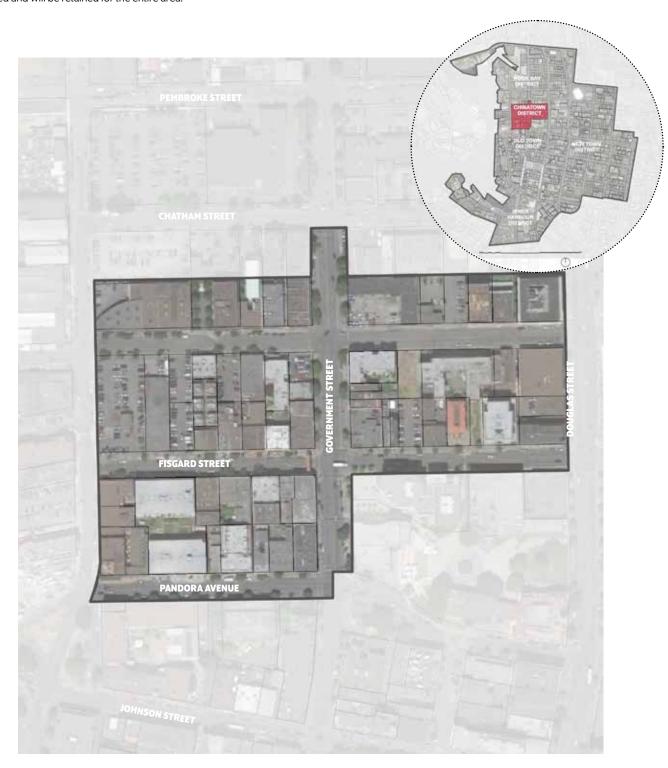
Streets

- Light and transparent canopy.
- Large and tall canopy.



5.1.4 CHINATOWN

Chinatown is one of Downtown Victoria's most distinctive historical districts. The 500 block of Fisgard Street is its primary block, but surrounding blocks are also integral to this precinct. A number of common features have been established and will be retained for the entire area.



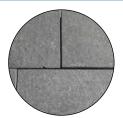
CHINATOWN PAVING MATERIALS

TROWEL JOINT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill and frame
- Colour: Natural
- Finish: Fine broom finish

BASALT PAVERS



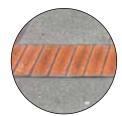
- Dimensions: 300mm x 450mm x 80mm
- Installation Method: Mortar set
- Application: Entry banding
- Colour: Charcoal grey
- Finish: Flamed

EXPOSED AGGREGATE



- Installation Method: Cast-in-place Dimensions: Fit to size
- Application: Main paving field at corners
- Colour: Dark Grey

BRICK PAVER TYPE B



- $Smooth \, Red \, Brick$
- Dimensions: 94mm x 194mm x 25mm
- Application: Sikewalk accents
- Colour: Orange red
- Installation Method: Mortar set

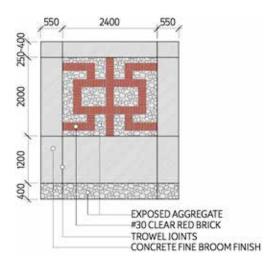


CHINATOWN PAVING APPLICATIONS

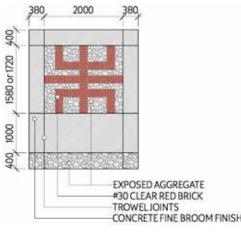


SIDEWALK

- Pattern: Two different Chinatown paving pattern with broomed concrete frame, exposed aggregate fill with brick pattern
- · Pattern 1: Linked



Pattern 2: Longevity in wide (1720) and narrow (1680) applications





CORNERS

Paving field

- Pattern: Field of exposed aggregate
- Installation: Cast-in-place

Tactile band

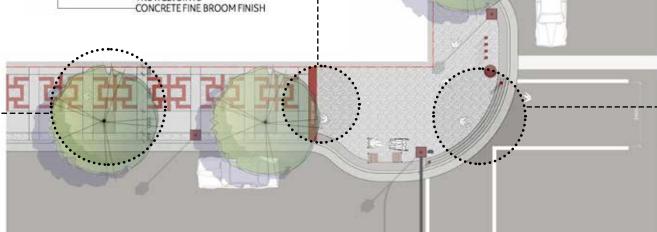
 continuous 450mm concrete band adjacend to curb with tactile scoring at let down

- 3

BASALT ENTRY BANDING WITH STREET NAME INSERT

- Pattern: 450mm wide single row soldier course band with larger slab where street name appears
- Material: Streetname Sandblasted into basalt slabs
- Font: Tisa Pro Bold, all caps
- Note: Care should be taken to the letter spacing and kerning

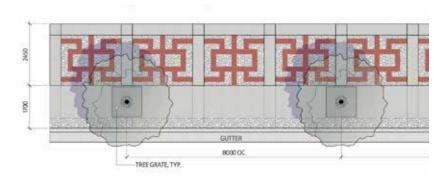




CHINATOWN PLANTING DETAILS

APPLICATION

For all sidewalks in China Town area there are be two types of trees-in-sidewalk condition:



- Adaptation of existing tree locations to sidewalk improvements:
 - Small modifications of proposed trowel joint pattern are recommended to best accommodate for existing tree locations. Detailed design and recommendations to be provided on a case-by-case basis for each improvement
 - Use of proposed poured-in-place resin bound material instead of tree grates is highly recommended to best accommodate heaving and overgrown tree routes and large tree trunks.
- New development condition:
 - A street tree spacing of between 8 10 metres is desired
 - Tree grates should be set in a concrete band that runs across the sidewalk from curb to building face as illustrated on the diagram below with trowel joint defining the band always aligned with tree grates
 - Street trees should be sited to correspond with architectural features of building frontage when possible

CHINATOWN RECOMMENDED TREE SPECIES & TYPOLOGIES

Chinatown is a relatively small area within the overall Downtown core. Spanning only a few streets with a strong character and thematic presence, it is recommended to focus on planting only 2 different street tree species to provide a stronger and more coherent character.

It is recommended that Fisgard Street continue to plant the existing mix and variety of trees.







SIZE			FORM	FORM			CANOPY		
LARGE	MEDIUM	SMALL	COLUMNAR	ROUNDED	BROAD	DENSE	TRANSPARENT		
			-						

CHINATOWN FURNISHING AND LIGHTING

The Chinatown furnishing palette is proposed to maintain its traditional look and feel using traditional Chinese red for all streetscape furniture. Custom Chinatown lantern style lights are kept as a feature element for this area.

BOLLARDS

TYPE B



Type B Bollard: Modern style

 Application: Corner bump outs and all other locations where vertical separation is needed

TRASH BIN



Chinatown Bin

- Application: All areas of Chinatown
- Note: When possible place at least 1 bin at corner bump out

BIKE RACK



Chinatown Bike Rack

Application: All areas in Chinatown

PEDESTRIAN LIGHT



Chinatown Pagoda Lantern

Application: All streets in Chinatown

BENCHES

TYPE C



Type C: Metal modern bench

- Application: All sidewalks
- Note: This bench should not be used at corners

TYPE D



Type D: Heritage style with back

 Application: Plazas and feature locations

TYPE E



Type E: Heritage style without back

 Application: Corner bump outs, sidewalk boulevards



CHAIR

Type D: Heritage style with back

- Application: Corner bump outs at outdoor room zones
- Note: Minimum of 2 chairs shall be placed at each location

5.1.5 ROCK BAY

Rock Bay is the historic northern industrial service area which flanks Downtown Victoria. The area is largely under-used, with few remaining active service businesses or industries. Some harbourside shipping and industrial uses continue to be active. Issues of outdated civil services / contaminated properties constrain adaptation of this area. A heritage of rugged marine and industrial character sets a theme that underlays the character of this district.



ROCK BAY PAVING MATERIALS

1

TROWEL JOINT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill and frame
- Colour: Natural
- Finish: Fine broom finish



SAWCUT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill
- Colour: Natural
- Finish: Light sandblasting



BASALT PAVERS



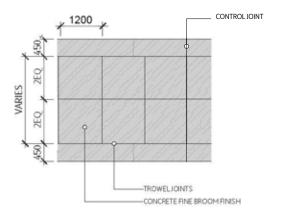
- Dimensions: 300mm x 450mm x 80mm
- Installation Method: Mortar set
- Application: Entry banding
- Colour: Charcoal grey
- Finish: Flamed



ROCK BAY PAVING APPLICATIONS



- 1200mm score line pattern perpendicular to the curb with a centre line parallel to the curb
- 450mm concrete band along curb and building face
- Control joits shall be provided accross 450mm bands every 3rd panel
- Narrow sidewalks 2m or less: eliminate 450mm banding along building face from the pattern



PAVING FIELD

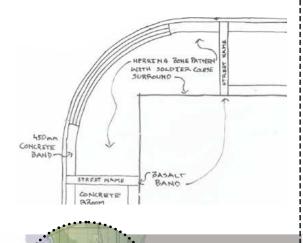
Paving field

- Pattern: Diamond sawcut
- Installation: Cast-in-place concrete



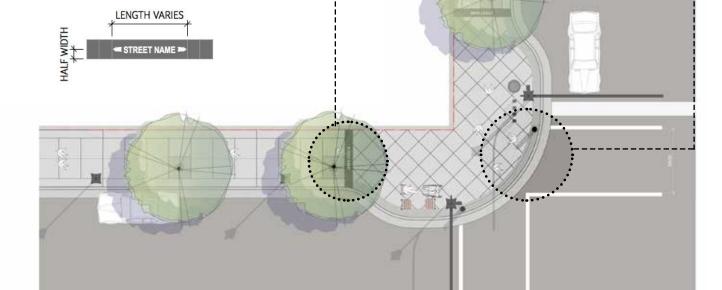
Tactile band

 continuous 450mm concrete band adjacend to curb with tactile scoring at let down



3 BASALT ENTRY BANDING WITH STREET NAME INSERT -

- Pattern: 450mm wide single row soldier course band with larger slab where street name appears
- Material: Streetname Sandblasted into basalt slabs
- Font: Tisa Pro Bold, all caps
- Note: Care should be taken to the letter spacing and kerning

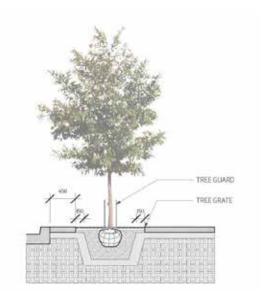


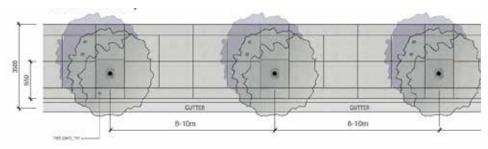
ROCK BAY PLANTING DETAILS

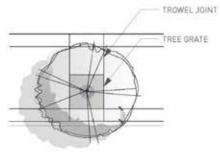
APPLICATION

For all sidewalks in Rock Bay area there are be two types of trees-in-sidewalk condition:

- 1. Adaptation of existing tree locations to sidewalk improvements:
 - Small modifications of proposed trowel joint pattern are recommended to best accommodate for existing tree locations. Detailed design and recommendations to be provided on a case-by-case basis for each improvement area.
 - Use of proposed poured-in-place resin bound material instead of tree grates is highly recommended to best accommodate heaving and overgrown tree routes and large tree trunks.
- 2. New development condition:
 - A street tree spacing of between 8 10 metres is desired
 - Tree grates should be set in a concrete band that runs across the sidewalk from curb to building face as illustrated on the diagram below with trowel joint defining the band always aligned with tree grates
 - Street trees should be sited to correspond with architectural features of building frontage when possible

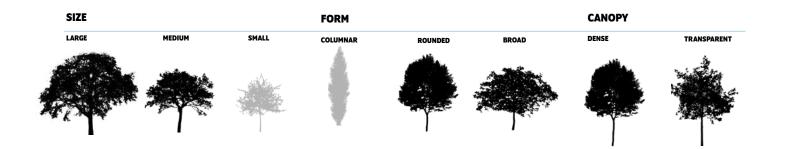






Tree grates define bands in the sidewalk pattern as illustrated on the diagram above

ROCK BAY RECOMMENDED TREE TYPOLOGIES



ROCK BAY FURNISHING AND LIGHTING

Rock Bay area has a distinctive industrial character. With its proximity to the water and working harbour, the style is proposed to be kept modern and simple. The furnishing and lighting suite is kept to a minimum and takes on a more modern feel. However, more ornamental and heritage style elements are used at key locations to provide coherency with the rest of Downtown. The black metal materials highlight the industrial character.

Lighting is simplified to only one pedestrian standard that demonstrates a modern heritage character, connecting the modern and heritage characteristics of the district.

PEDESTRIAN LIGHT



BOLLARDS

TYPE B



Type B Bollard: Modern style

 Application: Corner bump outs and all other locations where vertical separation is needed

TRASH BINS

TYPE A



Type A: Modern Metal Bin

- Application: All streets except corners and Government Street
- Multi-stream recycling receptacles are to be used when appropriate on a case by case basis

BIKE RACK



Downtown Bike Rack

 Application: All areas Downtown, except Chinatown

Modern Heritage Style Light

- Final design to be determined as part of the Lighting Strategy. See page 42 for details
- Future Application: All areas except Douglas Street
- See Fig. 18 on page 42 for the extent of the feature streets

INTERIM:

Heritage Single Globe Type B

Application: All streets in Rock Bay

FEATURE BENCHES

TYPE D

TYPE E





Type D: Industrial heritage style with back

- Application: Plazas and feature locations
- Corner bump outs



Type E: Industrial heritage style without back

- Application: Plazas and feature locations
- Corner bump outs



CHAIR

Chair Seat: Industrial heritage style with back

- Application: Corner bump outs at outdoor room zones
- Note: Minimum of 2 chairs shall be placed at each location

TYPICAL BENCHES

TYPE C



Type C: Metal modern bench

- Application: Sidewalks
- Note: This bench should not be used at corners

TYPE F



Type F: Metal modern bench with back

- Application: Sidewalks
- Note: this bench should not be used at corners

TYPE G



Type G: Metal modern bench without back

- Application: Sidewalks
- Note: this bench should not be used at corners

5.1.6 NEW TOWN

The New Town District is Downtown Victoria's evolving nucleus for commerce and urban interaction as well as key transit access zone. Focused on one side at the intersection of Victoria's two traditional main streets at Douglas and Yates, the district reaches east to developing areas surrounding Blanshard and abutting Quadra Streets, and extending north-south from Chatham to Humboldt Streets and extends east into more residential areas.



NEW TOWN PAVING MATERIALS

0

TROWEL JOINT CONCRETE



- Installation Method: Cast-in-place
- Application: Sidewalk fill and frame
- Colour: Natural
- Finish: Fine broom finish

2

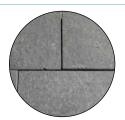
CONCRETE UNIT PAVERS



- Dimensions: 225mm x 75mm x 60
- Installation Method: Mortar set
- Application: Paving field
- Colours: Natural grey
- Finish: Unsealed



BASALT PAVERS



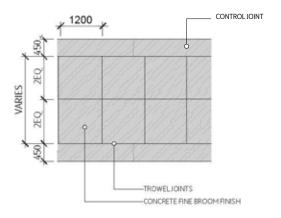
- Dimensions: 300mm x 450mm x 60mm
- Installation Method: Mortar set
- Application: Entry banding
- Colour: Charcoal grey
- Finish: Flamed



NEW TOWN PAVING APPLICATIONS

SIDEWALK -----

- 1200mm score line pattern perpendicular to the curb with a centre line parallel to the curb
- 450 mm concrete band along curb and building face
- Control joits shall be provided accross 450mm bands every
- Narrow sidewalks 2m or less: eliminate 450mm banding along building face from the pattern



CORNERS -

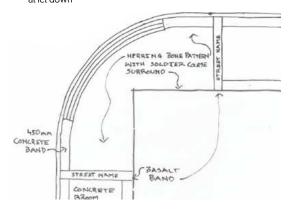
Paving field

- 45° Herringbone field with single row soldier course
- Installation: Mortar set



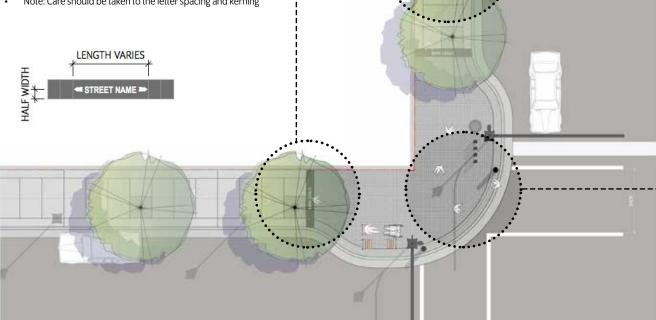
Tactile band

continuous 450mm concrete band adjacend to curb with tactile scoring at let down





- Pattern: 450mm wide single row soldier course band with larger slab where street name appears
- Material: Streetname Sandblasted into basalt slabs
- Font: Tisa Pro Bold, all caps
- Note: Care should be taken to the letter spacing and kerning

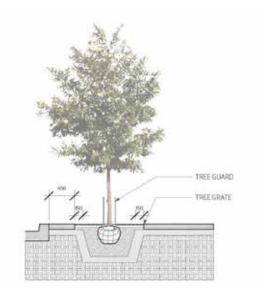


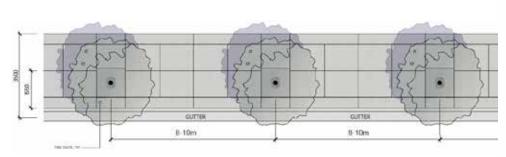
NEW TOWN PLANTING DETAILS

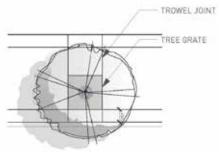
APPLICATION

For all sidewalks in New Town area there are be two types of trees-in-sidewalk condition:

- 1. Adaptation of existing tree locations to sidewalk improvements:
 - Small modifications of proposed trowel joint pattern are recommended to best accommodate for existing tree locations. Detailed design and recommendations to be provided on a case-by-case basis for each improvement area.
 - Use of proposed poured-in-place resin bound material instead of tree grates is highly recommended to best accommodate heaving and overgrown tree routes and large tree trunks.
- 2. New development condition:
 - A street tree spacing of between 8 10 metres is desired
 - Tree grates should be set in a concrete band that runs across the sidewalk from curb to building face as illustrated on the diagram below with trowel joint defining the band always aligned with tree grates
 - Street trees should be sited to correspond with architectural features of building frontage when possible

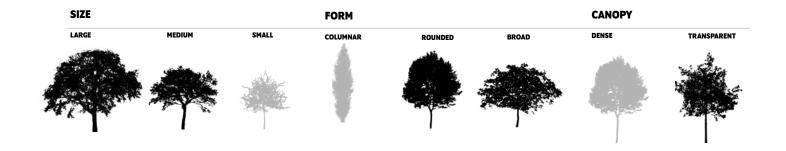






 Tree grates define bands in the sidewalk pattern as illustrated on the diagram above

NEW TOWN RECOMMENDED TREE TYPOLOGIES



NEW TOWN FURNISHING AND LIGHTING

New Town furnishing suite is a modern heritage style. It has the most diversity in streets characters from busy Douglas Street and Blanshard Street to quiet residential marrow streets with planted boulevards. Proposed elements can accommodate for both conditions giving flexibility to how and where to use them.

BOLLARDS

TYPE B



Type B Bollard: Modern style

 Application: Corner bump outs and all other locations where vertical separation is needed

TRASH BINS

TYPE A



Type A: Modern Metal Bin

- Application: All locations
- Multi-stream recycling receptacles are to be used when appropriate on a case by case basis

BIKE RACK



Downtown Bike Rack

• Application: All locations

PEDESTRIAN LIGHT



Modern Heritage Style Light

- Final design to be determined as part of the Lighting Strategy
- Future Application: All areas except key corridors: Yates Street, Fort Street Broughton Street and Courtney Street - See page 78 for key corridors lighting application
- See Fig. 18 on page 42 for the extent of the key corridors

INTERIM:

Heritage Cluster Globe Type B : Aligned

 Application: All streets in New Town except Fort Street and Yates Street

KEY CORRIDORS PEDESTRIAN LIGHTS

CLUSTER GLOBE LIGHT TYPE A



Heritage Cluster Globe Type A : Circular

Application: Fort Street, Yates Street

CLUSTER GLOBE LIGHT TYPE B



Heritage Cluster Globe Type B: Aligned

- Application: Broughton Street, Courtney Street
- Notes: Place lights perpendicular to the curb when possible

SINGLE GLOBE LIGHT



Heritage Single Globe

 Application: Where other Cluster Globe Types don't fit

FEATURE BENCHES

TYPE H



Type H: Wooden modern bench with back

- Application: Plazas and feature locations
- Corner bump outs

TYPE I



Type I: Wooden modern bench without back

- Application: Plazas and feature locations
- Corner bump outs

CHAIR



Chair seat: Modern style with back

- Application: Corner bump outs at outdoor room zones
- Note: Minimum of 2 chairs shall be placed at each location

TYPICAL BENCHES

TYPE C



Type C: Metal modern bench

- Application: Sidewalks
- Note: this bench should not be used at corners

TYPE F



Type F: Metal modern bench with back

- Application: Sidewalks
- Note: this bench should not be used at corners

TYPE G

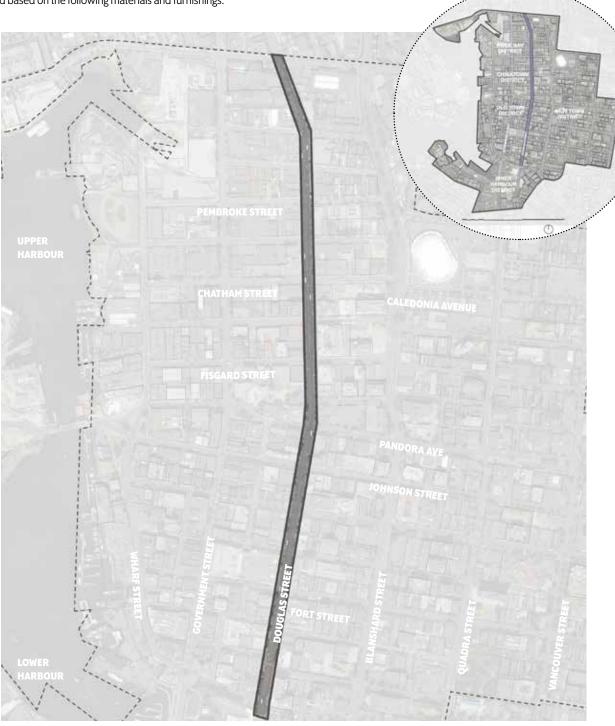


Type G: Metal modern bench without back

- · Application: Sidewalks
- Note: this bench should not be used at corners

5.1.7 DOUGLAS STREET

Douglas Street is the city's traditional ceremonial and retail main street and principal transit corridor and key gateway to downtown from the north. A significant reconfiguration of Douglas Street to revitalize and enhance it as a key downtown promenade and transit priority corridor is envisioned over the medium to long term . In the meantime, the existing general character will be maintained based on the following materials and furnishings.



DOUGLAS STREET PAVING MATERIALS

1

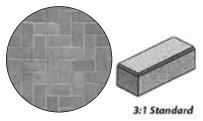
CONCRETE BANDING



- Dimensions: 450mm wide
- Installation Method: Cast-in-place
- · Application: sidewalk patterning
- Spacing: 3m min. or to match architectural elements when possible

2

CONCRETE UNIT PAVERS



- Dimensions: 225mm x 75mm x 60mm Installation Method: Mortar set
- Application: Main sidewalk paving between concrete banding + corner bump outs
- Colour: Charcoal grey



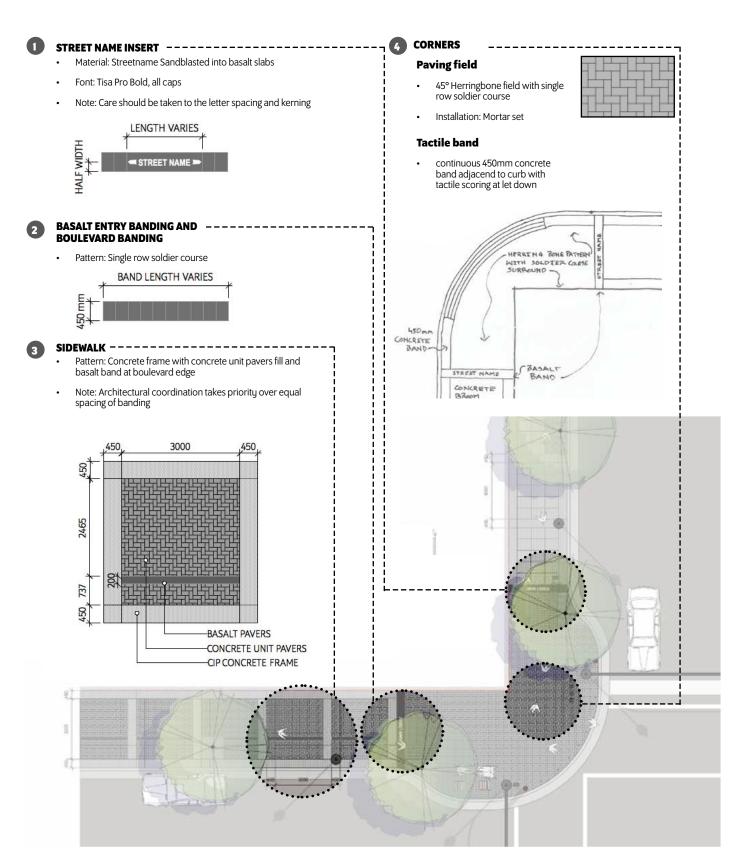
BASALT PAVERS



- Dimensions: 300mm x 450mm x 80mm
- Installation Method: Mortar set
- Application: Entry banding
- · Colour: Charcoal grey
- Finish: Flamed
- Dimensions: 300mm x 150 x 80mm
- Installation Method: Mortar set
- Application: Boulevard Bending
- Colour: Charcoal grey
- Finish: Flamed



DOUGLAS STREET PAVING APPLICATIONS



DOUGLAS STREET FURNISHING

Dougl as Street is a divider between old heritage style and new Town more modern style furniture. By it's nature of transit oriented corridor it taken on more modern look with larger number of metal benches and bins and offers those more ornamental elements at feature locations and corners. There is also few feature elements proposed for Douglas Street to infill larger sidewalk areas as well as create safer and more secluded pedestrian environment competing with busy traffic.

BOLLARDS

TYPE B



Type B Bollard: Modern style

Application: All locations

TRASH BINS



Type A: Modern Metal Bin

- Application: All locations
- Multi-stream recycling receptacles are to be used when appropriate on a case by case basis

BIKE RACK



Downtown Bike Rack

Application: All locations

PEDESTRIAN LIGHT



 future planning and design work to be undertaken in the comprehensive redevelopment of Douglas Street to include the consideration of retaining the iconic cluster lamps that significantly contributes to the gateway of the capital city.

CHAIR

BENCHES

TYPE C



Type C: Metal modern bench

- Application: Sidewalks
- Note: This bench should not be used at corners

TYPE D



Type D: Industrial heritage style with back

- Application: Feature locations
- · Corner bump outs

TYPE E



Type E: Industrial heritage style without back

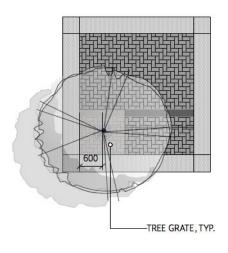
- Application: Feature locations
- Corner bump outs



Chair Seat: Industrial heritage style with back

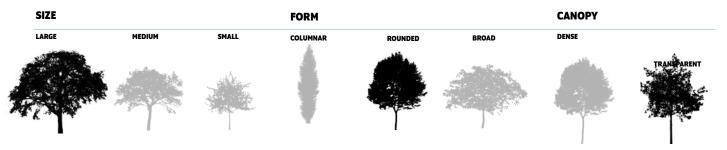
- Application: Corner bump outs at outdoor room zones
- Note: Minimum of 2 chairs shall be placed at each location

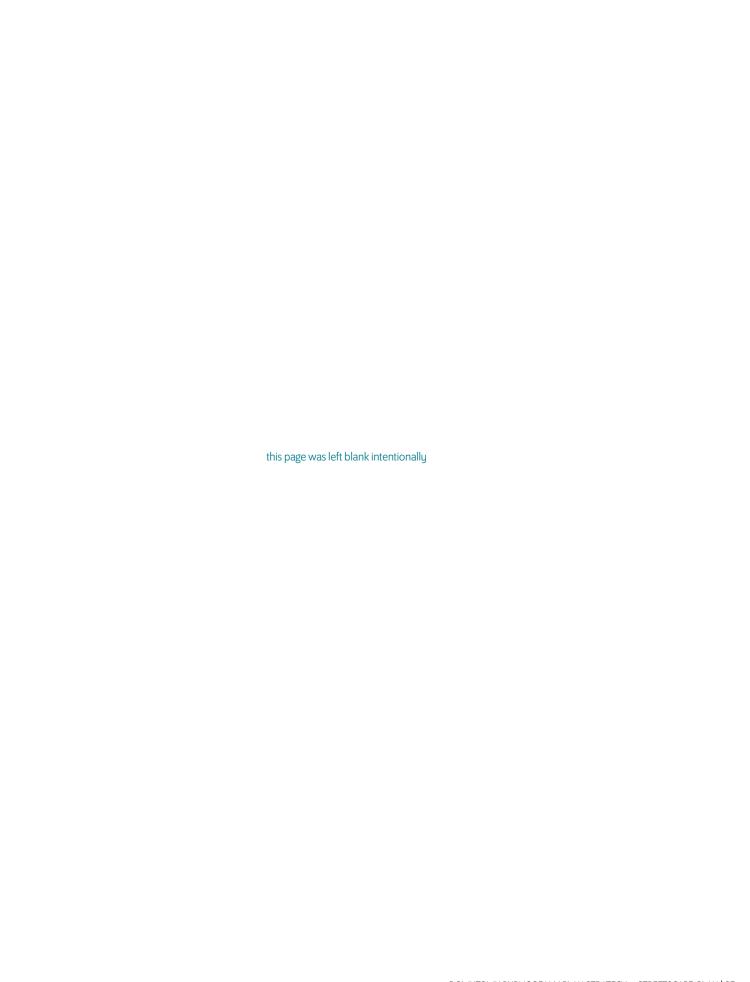
TREE PLANTING RECOMMENDATIONS

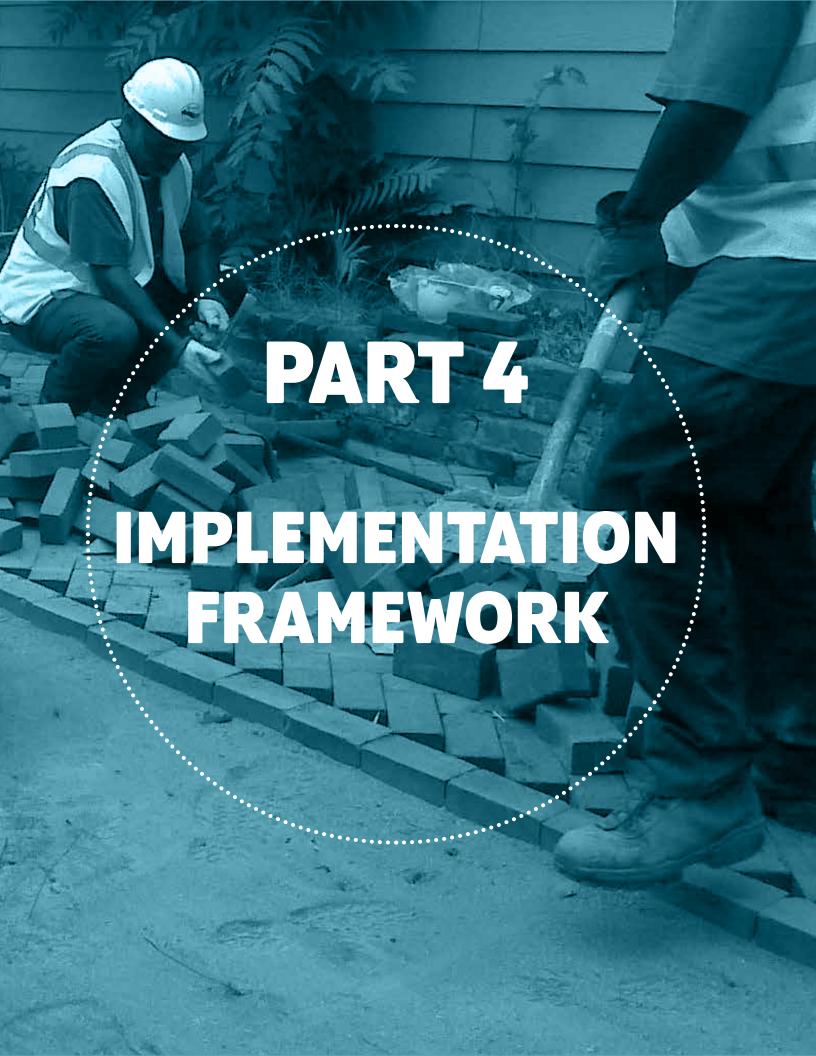


Recommendations:

- Grand character.
- Large scale trees to establish and/or strengthen a street wall.
- High and large canopy to allow for truck ,bus and car circulation.
- Low maintenance.
- All new tree planted in tree grates with tree guards.
- Use of soil cell is highly recommended where possible.







6 IMPLEMENTATION FRAMEWORK

The DPRP includes an updated catalogue of streetscape standards and identifies priority public realm improvements. The following is an implementation framework including identification of short medium and long term actions.

6.1 UPDATED STREETSCAPE STANDARDS

Implementation of the updated streetscape furnishing, materials and repainting will occur gradually overtime through a combination of the following three mechanisms:

6.1.1 DEVELOPER INITIATED IMPROVEMENTS

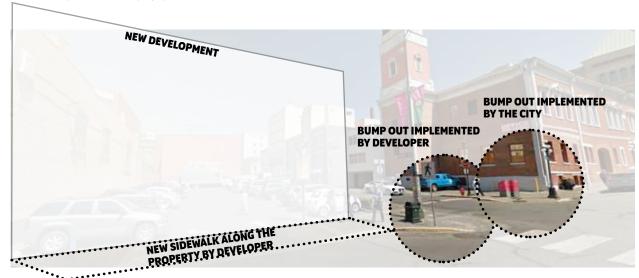
New streetscape standards will be implemented as part of improvements undertaken as part of new development in the downtown either through required frontage improvements or through negotiated public realm investments.

Opportunities for implementing capital improvements aligned with developer initiated frontage improvements will be identified and undertaken as opportunities arise.

SIDEWALK REPAIR APPROACH:

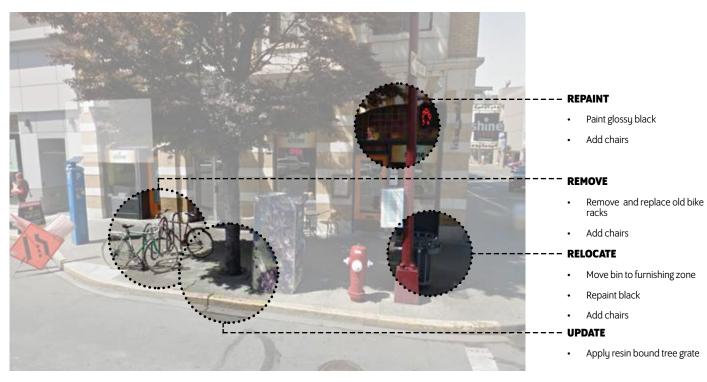


NEW DEVELOPMENT APPROACH:



6.1.2 OPERATIONS AND MAINTENANCE PROGRAM

New Streetscape furnishing and materials specified in this plan will be implemented over time as part of the City's regular program of maintenance and replacement. This will include identification of priority streetscape improvement areas.



6.1.3 CAPITAL PLAN AND PROJECTS

Priority public realm improvements identified in the Plan such as streetscape improvements to Government Streets and Douglas Street, updates to Centennial Square, and phased re-development of Ship Point, will be planned and implemented on a case-by-case basis through the financial planning process with funding sources and timing balanced with consideration of available resources and other City priorities based on Council Direction.

Listed below and cross referenced on the map to the right are some of the capital project areas.

- Centennial Square
- Belleville Plaza
- 2 Bastion Square
- 6 Ship Point
- 3 Reeson Park
- **7** Government Street
- 4 Laurel Point
- 8 Douglas Street



6.2 PRIORITY IMPROVEMENT PROJECTS

Major capital projects such as implementation of separated bike lanes and the Harbour Pathway will include implementation of the new streetscape standards where appropriate. Additionally, priority capital improvements may also be undertaken either on a stand alone basis or concurrently with other works (either public or private) to meet key strategic plan goals of the

City. Once approved, these projects need to be incorporated into the work plans of effected departments if not already incorporated, and additional resources and budgets allocated.

6.2.1 SHORT TERM (0-5 YEARS)

	ACTION		DESCRIPTION	RESPONSIBILITY	PARTNERSHIPS	IN CURRENT WORKPLAN	PRIORITY LEVEL
0	Centennial Square Master Plan	»	Undertake a Master Plan process for Centennial Square and adjacent buildings addressing short medium and long term objectives and site program directions established by this plan.	Planning	DVBA	Yes	High
2	Downtown Pedestrian Light Strategy	>>	Identify and specify na ew pedestrian light and implementation program as directed by this plan.	Engineering and PW	-	No	Medium
3	Conceptual Design for Douglas Street Corridor	»	Undertake conceptual design to reconfigure Douglas Street within the downtown study area as a Transit Oriented Corridor and major pedestrian promenade as directed by this plan.	Planning	DVBA	No	Medium
4	Ship Point Master Plan Phase 1 Implementation	»	Undertake a master plan based on the site and program objectives established by the Harbour Vitality Principles and implement Phase 1.	Planning	GVHA	Yes	High
5	Conceptual And Detailed Design For Government Street Mall Extention (Yates To Herald Street) And Replacement of existing streetscape elements (Wharf to Yates Street)	»	Undertake conceptual and detailed design for Government Street from Yates to Herald Street based on objectives and design directions established by this plan, and in the context of the larger Government Street Corridor including incorporation of bike facilities, and reconfiguring the intersection of Wharf and Government Street as a major Downtown Gateway.	Planning, Engineering, PW	DVBA	No	High
		>>	Confirm design and location of new furnishing, planters, and street trees, as directed by this plan.				
6	Government Street Improvements (Yates to Herald Street)	»	Based on detailed design and results of action 5, Government Street will undergo a series of improvements from Wharf Street to Herald Street.	Engineering, PW	DVBA	No	High
7	Undertake a Waterfront Public Art Strategy	>>	The Arts Culture and Events Department to spearhead a Waterfront Public Art Strategy.	Arts and Culture	DVBA	No	High

6.2.2 MEDIUM TERM (5-10 YEARS)

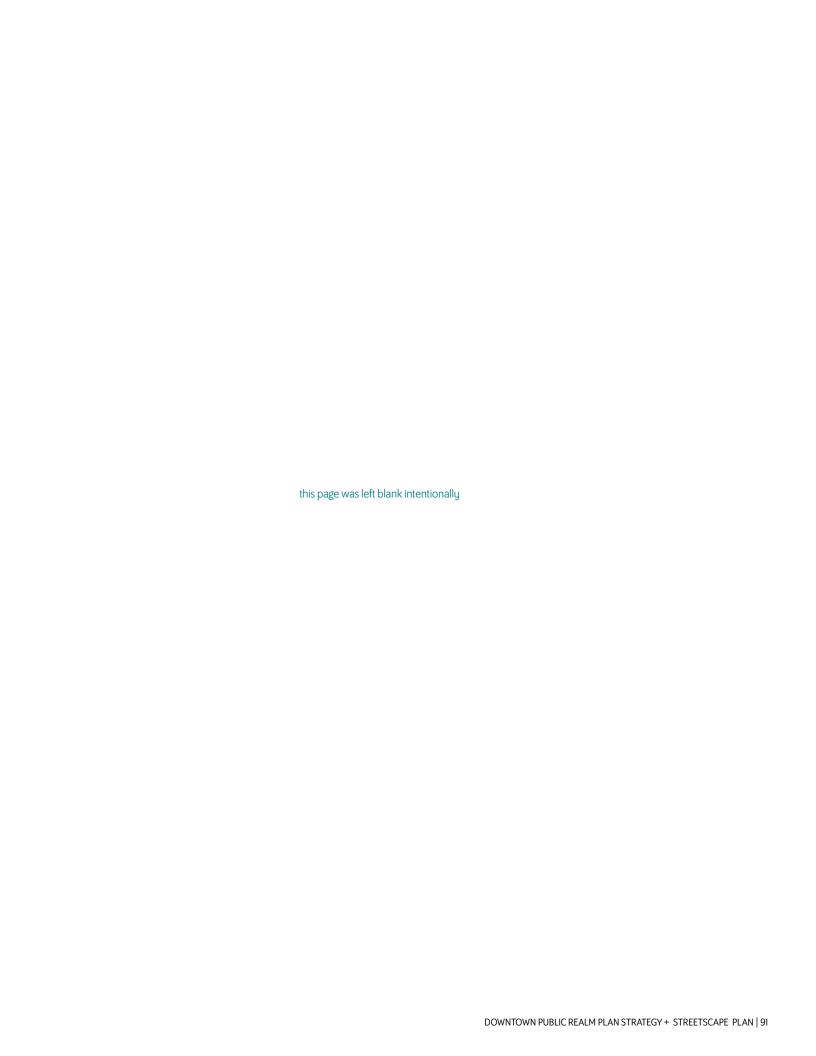
	ACTION		DESCRIPTION	RESPONSIBILITY	PARTNERSHIPS	IN CURRENT WORKPLAN	PRIORITY LEVEL
8	Douglas Street Detailed Design	»	Based on conceptual design and results of Action 3, undertake detailed design for Douglas Street.	Engineering and PW	DVBA, BC Transit	No	Medium

6.2.3 LONG TERM (10+ YEARS)

	ACTION	DESCRIPTION	RESPONSIBILITY	PARTNERSHIPS	IN CURRENT WORKPLAN	PRIORITY LEVEL
9	Douglas Street	» Undertake construction of Douglas	Engineering and PW	DVBA,	No	Medium
	Improvements	Street improvements based on detailed designand results of Action 8.	I	BC Transit		

6.2.4 DOWNTOWN PUBLIC REALM COMMITTEE

An interdepartmental Staff Working Group will be formed to monitor and identify implementation opportunities and provide guidance to capital projects related to public spaces in the downtown. The committee will be coordinated by the Planning Department and meet quarterly and more frequently as needed, and be made up of representation from the Arts and Culture, Engineering/Street Operations, Public Works, Parks, Planning and Engagement.

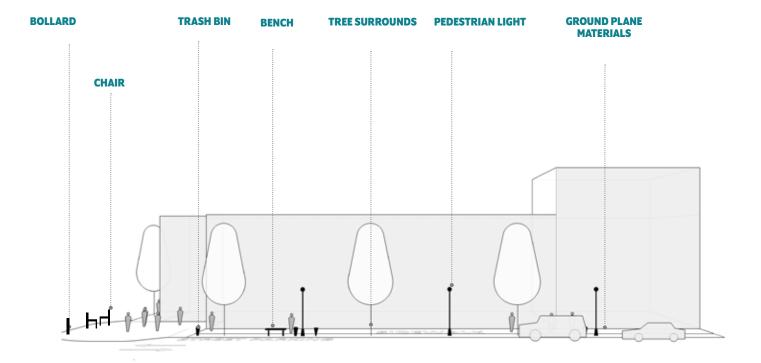




7 STREETSCAPE ELEMENTS CATALOG

This Streetscape Elements Catalog Section replaces the Downtown Beautification "Kit of Parts" Manual first published in 1996.

This Streetscape Elements represent a catalog of all standard elements and paving materials for Downtown Victoria. Products and suppliers should match those specified within this document, or be equivalent (as approved by the City of Victoria).



SINGLE GLOBE LIGHT

PRODUCT TYPE: Pedestrian Light **PRODUCT NAME:** Single Globe Light **DESIGN STYLE:** Heritage Pre 1913

MATERIALS: Cast Iron with Opal Glass Globe **COLOUR/ FINISH:** Glossy Black (RAL 9017) Enamel **DIMENSIONS:** 17.5" Base, 14.3" Height

LIGHT SOURCE: LED

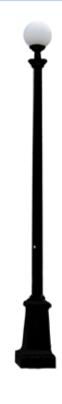
DISTRIBUTION: Inner Harbour, Old Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CLUSTER GLOBE LIGHT TYPE A

PRODUCT TYPE: Pedestrian Light

PRODUCT NAME: Cluster Globe Light Type A **DESIGN STYLE:** Circular Heritage Cluster Pre1913 Cast Iron with Opal Glass Globes **MATERIALS: COLOUR/FINISH:** Glossy Black (RAL 9017) Enamel

DIMENSIONS: 17.5" Base, 14.3" Height

LIGHT SOURCE: LED

DISTRIBUTION: Inner Harbour, Old Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CLUSTER GLOBE LIGHT TYPE B

PRODUCT TYPE: Pedestrian Light

PRODUCT NAME:Cluster Globe Light Type BDESIGN STYLE:Aligned Heritage Cluster Pre1913MATERIALS:Cast Iron with Opal Glass GlobesCOLOUR/FINISH:Glossy Black (RAL 9017) Enamel

DIMENSIONS: 17.5" Base, 14.3" Height

LIGHT SOURCE: LED

DISTRIBUTION: Inner Harbour, Old Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



SINGLE GLOBE WALL LIGHT

PRODUCT TYPE: Wall Light

PRODUCT NAME: Single Globe Wall Light **DESIGN STYLE:** Heritage Pre 1913

MATERIALS:Cast Iron with Opal Glass GlobeCOLOUR/ FINISH:Glossy Black (RAL 9017) Enamel

DIMENSIONS: Wall mounted

LIGHT SOURCE: LED

DISTRIBUTION: Inner Harbour, Old Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



BASTION SQUARE STREET LANTERN (DPI)

PRODUCT TYPE: Pedestrian Light

Bastion Square Street Lantern (DP1) **PRODUCT NAME:**

DESIGN STYLE: Heritage **MATERIALS:** N/A

Glossy Black (RAL 9017) Enamel **COLOUR/FINISH:**

DIMENSIONS: LIGHT SOURCE: LED

DISTRIBUTION: Bastion Square MANUFACTURER: City of Victoria

SPECIAL NOTES: All existing lights should be

> maintained and be repainted black; All new lights shall be installed to match existing distribution.



CHINATOWN PAGODA LANTERN

PRODUCT TYPE: Pedestrian Light

PRODUCT NAME: Chinatown Pagoda Lantern **DESIGN STYLE:** Chinatown Heritage

MATERIALS: Spun Aluminum Post with Molded

Aluminum Lantern

COLOUR/FINISH: Glossy Red (RAL 3002) and Yellow

Accent Baked on Enamel

DIMENSIONS: N/A **LIGHT SOURCE:** LED **DISTRIBUTION:** Chinatown **MANUFACTURER:** Modelcast Inc.

SPECIAL NOTES: All existing lights should be

> maintained; All new lights shall be installed to match existing

distribution.



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MODERN HERITAGE SINGLE LIGHT

PRODUCT TYPE: Pedestrian Light

PRODUCT NAME: Modern Heritage Single Light

DESIGN STYLE: Modern Heritage

MATERIALS: Glossy Black (RAL 9017) Enamel

COLOUR/FINISH: 12', 14', 16' Height **DIMENSIONS:** Rock Bay, New Town

LIGHT SOURCE: LED

DISTRIBUTION:

MANUFACTURER: City of Victoria / Landscape Forms as

alternative

SPECIAL NOTES: Detailed design to be provided by

> the City of Victoria. Image to the left shows the Ashbery Light from Landscape Forms as alternative

option.



MODERN HERITAGE SINGLE LIGHT

PRODUCT TYPE: Wall Light

PRODUCT NAME: Modern Heritage Single Light

DESIGN STYLE: Modern Heritage

Glossy Black (RAL 9017) Enamel **MATERIALS:**

COLOUR/FINISH: Wall Mounted

DIMENSIONS: Rock Bay, New Town, Douglas Street

LIGHT SOURCE: LED

DISTRIBUTION:

MANUFACTURER: City of Victoria / Landscape Forms as

alternative

SPECIAL NOTES: Detailed design to be provided by

> the City of Victoria. Image to the left shows the Ashbery Light from Landscape Forms as alternative

option.



PRODUCT TYPE: Pedestrian Light

PRODUCT NAME: Modern Heritage Double Light

DESIGN STYLE: Modern Heritage

MATERIALS: Glossy Black (RAL 9017) Enamel

COLOUR/FINISH: 16' Height

DIMENSIONS: Rock Bay, New Town, Douglas Street

LIGHT SOURCE: LED

DISTRIBUTION:

MANUFACTURER: City of Victoria / Landscape Forms as

alternative

SPECIAL NOTES: Detailed design to be provided by

the City of Victoria. Image to the left shows the Ashbery Light from Landscape Forms as alternative

option.



HERITAGE BENCH

MANUFACTURER:

PRODUCT TYPE: Type A Wood Bench with Backrest

PRODUCT NAME: Heritage Bench **DESIGN STYLE:** Heritage

MATERIALS: Cast Aluminum Frame with Oak Slats

Glossy Black (RAL 9017) Baked-on

COLOUR/ FINISH: Powder Coat Frame, Varnished Slats

DIMENSIONS: 6' Length, 18" Height

DISTRIBUTION: Inner Harbour, Old Town, Douglas

> Street, New Town City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

> City of Victoria; see Character area section of Streetscape Standards for specific location guidelines.



HERITAGE BENCH

Type B Wood Bench Backless **PRODUCT TYPE:**

PRODUCT NAME: Heritage Bench **DESIGN STYLE:** Heritage

MATERIALS: Cast Aluminum Frame with Oak Slats **COLOUR/FINISH:** Glossy Black (RAL 9017) Baked-on

Powder Coat Frame, Varnished Slats

DIMENSIONS: 6' Length, 18" Height

DISTRIBUTION: Inner Harbour, Old Town, Douglas

Street, New Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for specific location guidelines.



HERITAGE CHAIR

DIMENSIONS:

Wood Chair with Backrest **PRODUCT TYPE:**

PRODUCT NAME: Heritage Chair **DESIGN STYLE:** Heritage

MATERIALS: Cast Aluminum Frame with Oak Slats **COLOUR/FINISH:** Glossy Black (RAL 9017) Baked-on Powder Coat Frame, Varnished Slats

2' Length, 18" Height

DISTRIBUTION: Inner Harbour, Old Town, Douglas

Street, New Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

> City of Victoria; see Character area section of Streetscape Standards for



INDUSTRIAL HERSITAGE BENCH

PRODUCT TYPE: Type D Metal Bench with Back **PRODUCT NAME:** Industrial Heritage Bench

DESIGN STYLE: Industrial Heritage

MATERIALS: Steel Fame + Steel Rod Seat

COLOUR/ FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 14' Width

DISTRIBUTION: Rock Bay, Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for

specific location guidelines.



INDUSTRIAL HERITAGE CHAIR

PRODUCT TYPE: Metal Chair

PRODUCT NAME: Industrial Heritage Chair **DESIGN STYLE:** Industrial Heritage

MATERIALS: Steel Fame + Steel Rod Seat

COLOUR/ FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 2' Width

DISTRIBUTION: Rock Bay, Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for



METAL MODERN BENCH

PRODUCT TYPE: Type C Metal Backless Bench Arms

Removed

PRODUCT NAME: Metal Modern Bench

DESIGN STYLE: Modern

MATERIALS: Steel Bar and Round Rod

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 6' Length, 17" Height

DISTRIBUTION: Inner Harbour, Old Town, New Town,

Rock Bay, Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



STANDARD BENCH

PRODUCT TYPE: Type E Metal Bench Backless

PRODUCT NAME: Standard Bench **DESIGN STYLE:** Industrial Heritage

MATERIALS: Steel Fame + Steel Rod Seat

COLOUR/ FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 14' Width

DISTRIBUTION: Rock Bay, Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for



CHINATOWN HER\$ITAGE BENCH

PRODUCT TYPE: Type D Metal Bench with Back **PRODUCT NAME:** Industrial Heritage Bench

DESIGN STYLE: Industrial Heritage

MATERIALS: Steel Fame + Steel Rod Seat

COLOUR/ FINISH: Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS:14' WidthDISTRIBUTION:ChinatownMANUFACTURER:City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for

specific location guidelines.



CHINATOWN HERITAGE BENCH

PRODUCT TYPE: Type E Metal Bench Backless

PRODUCT NAME: Standard Bench **DESIGN STYLE:** Industrial Heritage

MATERIALS:Steel Fame + Steel Rod SeatCOLOUR/ FINISH:Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS:14' WidthDISTRIBUTION:ChinatownMANUFACTURER:City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

City of Victoria; see Character area section of Streetscape Standards for



CHINATOWN HERITAGE CHAIR

PRODUCT TYPE: Metal Chair

PRODUCT NAME: Industrial Heritage Chair **DESIGN STYLE:** Industrial Heritage

Steel Fame + Steel Rod Seat **MATERIALS: COLOUR/FINISH:** Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS: 2' Width **DISTRIBUTION:** Chinatown **MANUFACTURER:** City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

> City of Victoria; see Character area section of Streetscape Standards for

specific location guidelines.



STANDARD BENCH

PRODUCT TYPE: Type C Metal Bench Backless

PRODUCT NAME: Standard Bench **DESIGN STYLE:** Industrial Heritage

MATERIALS: Steel Fame and Steel Rod Seat **COLOUR/FINISH:** Glossy Red (RAL 3002) Baked-on

Powder Coat Frame and Slats

DIMENSIONS: 6' Length, 18" Height

DISTRIBUTION: Chinatown **MANUFACTURER:** City of Victoria

SPECIAL NOTES: Detailed design to be provided by the

> City of Victoria; see Character area section of Streetscape Standards for



MODERN METAL BENCH

PRODUCT TYPE: Type F Metal Bench with Backrest

PRODUCT NAME: Modern Metal Bench

DESIGN STYLE: Modern

MATERIALS: Steel Frame and Slats

COLOUR/ FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat Frame

DIMENSIONS: 5'11.25' Length,2'7.19" Height

DISTRIBUTION: Rock Bay, New Town **MANUFACTURER:** Maglin Site Furniture

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



MODERN METAL BENCH

PRODUCT TYPE: Type G Metal Bench Backless

PRODUCT NAME: Modern Metal Bench

DESIGN STYLE: Modern

MATERIALS: Steel Frame and Slats

COLOUR/ FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 5'10' Length, 1'11.24" Height

DISTRIBUTION: Rock Bay, New Town **MANUFACTURER:** Maglin Site Furniture

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



MODERN WOOD BENCH

PRODUCT TYPE: Type H Wood Bench with Backrest

PRODUCT NAME: Modern Wood Bench

DESIGN STYLE: Modern

MATERIALS: Steel Frame and Ipe Wood Slats Glossy Black (RAL 9017) Baked-on **COLOUR/FINISH:**

Powder Coat Frame, Varnished Slats

DIMENSIONS: 5'11.25' Length,2'7.19" Height **DISTRIBUTION:** Rock Bay, New Town

MANUFACTURER: Maglin Site Furniture

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



MODERN WOOD BENCH

PRODUCT TYPE: Type I Wood Bench Backless **PRODUCT NAME:** Modern Wood Bench

DESIGN STYLE: Modern

MATERIALS: Steel Frame and Ipe Wood Slats **COLOUR/FINISH:** Glossy Black (RAL 9017) Baked-on

Powder Coat Frame, Varnished Slats

DIMENSIONS: 5'10' Length, 1'11.24" Height

DISTRIBUTION: Rock Bay, New Town **MANUFACTURER:** Maglin Site Furniture

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



CAUSEWAY HERITAGE BOLLARD

PRODUCT TYPE: Type A Bollard

PRODUCT NAME: Causeway Heritage Bollard

DESIGN STYLE: Heritage **MATERIALS:** Cast Aluminum

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 11" Square Base, 38" Height **DISTRIBUTION:** Inner Harbour, Old Town

MOUNTING: Surface Mount, Bolted to Concrete

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



RELIANCE FOUNDRY BOLLARD

PRODUCT TYPE: Type B Bollard

PRODUCT NAME: Reliance Foundry Bollard

DESIGN STYLE: Standard **MATERIALS:** Ductile Iron

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 35" Height

DISTRIBUTION: Inner Harbour, Old Town, Rock Bay,

New Town, Government Street,

Douglas Street

MOUNTING: Surface Mount, Bolted to Concrete

MANUFACTURER: Reliance Foundry

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



RELIANCE FOUNDRY BOLLARD

PRODUCT TYPE: Type B Bollard

PRODUCT NAME: Reliance Foundry Bollard

DESIGN STYLE: Standard **MATERIALS:** Ductile Iron

COLOUR/FINISH: Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS: 35" Height DISTRIBUTION: Chinatown

MOUNTING: Surface Mount, Bolted to Concrete

MANUFACTURER: Reliance Foundry

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



STANDARD BIKE RACK

PRODUCT TYPE: 2 Capacity Bike Rack **PRODUCT NAME:** Standard Bike Rack

DESIGN STYLE: Standard

MATERIALS: 1.5" Galvanized Steel Pipe

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 12" Length, 3' Height

DISTRIBUTION: Inner Harbour, Old Town, Rock Bay,

New Town, Government Street,

Douglas Street

MOUNTING: Sleeve Mount
MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CHINATOWN BIKE RACK

PRODUCT TYPE:2 Capacity Bike RackPRODUCT NAME:Chinatown Bike RackDESIGN STYLE:Chinatown Heritage

MATERIALS: 1.5" Galvanized Steel Pipe and

Steel Bar

COLOUR/FINISH: Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS: 12" Length, 3' Height

DISTRIBUTION:ChinatownMOUNTING:Sleeve MountMANUFACTURER:City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



MODERN METAL BIN

PRODUCT TYPE: Type A Litter Bin with Recycling

Component

PRODUCT NAME: Modern Metal Bin

DESIGN STYLE: Modern **MATERIALS:** Metal Frame

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 42" Height

DISTRIBUTION: Inner Harbour, Old Town, Rock Bay,

New Town, Government Street,

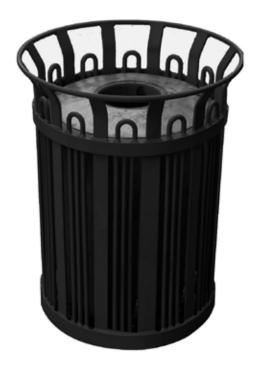
Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



HERITAGE BIN

PRODUCT TYPE: Type B Litter Bin **PRODUCT NAME:** Heritage Bin **DESIGN STYLE:** Heritage

MATERIALS: Cast Aluminum with Polyethylene

COLOUR/FINISH: Two toned-Glossy Black (RAL

9017) and Light Grey Enamel

DIMENSIONS: 36" Height, 22" Square **DISTRIBUTION:** Inner Harbour, Old Town

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



MULTI-STREAM RECEPTACLE

PRODUCT TYPE: Multi-stream Receptacle

PRODUCT NAME: Modern Multi-stream Receptacle

DESIGN STYLE: Modern **MATERIALS:** Metal Frame

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS: 32.5" Height

DISTRIBUTION: Inner Harbour, Old Town, Rock Bay,

New Town, Government Street,

Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: These receptacles are available for

use as appropriate when approved

by the City of Victoria.



CHINATOWN CLASSIC LITTER BIN

PRODUCT TYPE: Litter Bin with Recycling Component

PRODUCT NAME: Chinatown Classic Litter Bin **DESIGN STYLE:** Chinatown Standard

MATERIALS: Metal Frame

COLOUR/FINISH: Glossy Red (RAL 3002) Baked-on

Powder Coat

DIMENSIONS: 42" Height
DISTRIBUTION: Chinatown
MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



GREEN CIRCULAR PLANTER AND BENCH

PRODUCT TYPE: Planter and Bench

PRODUCT NAME: Green Circular Planter and Bench

DESIGN STYLE: Contemporary

MATERIALS: Aluminum and Cumaru Hardwood **COLOUR/FINISH:** Powder Coated Aluminum and

Untreated FSC Hardwood

DIMENSIONS: 48" D

DISTRIBUTION: Government Street,

MANUFACTURER: Street Life

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



METAL TREE GUARD

PRODUCT TYPE: Tree Guard **PRODUCT NAME:** Metal Tree Guard **DESIGN STYLE:** Contemporary

MATERIALS:

COLOUR/FINISH: Glossy Black (RAL 9017) Baked-on

Powder Coat

DIMENSIONS:

DISTRIBUTION: Inner Harbour, Old Town, Rock

Bay, New Town, Government

Street, Douglas Street

MANUFACTURER: City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



ROUND TREE GRATE

PRODUCT TYPE: Tree Grate **PRODUCT NAME:** Round Tree Grate

DESIGN STYLE: Contemporary

MATERIALS: Metal

COLOUR/FINISH:

DIMENSIONS: min. 48" D

DISTRIBUTION:

MANUFACTURER: Dobney Foundry Ltd.

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



SQUARE TREE GRATE

PRODUCT TYPE: Tree Grate

PRODUCT NAME: Square Tree Grate **DESIGN STYLE:** Contemporary

MATERIALS: Metal

COLOUR/FINISH:

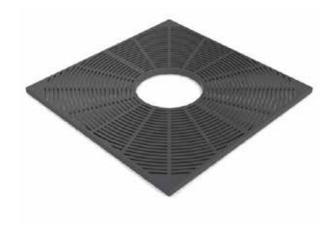
48" W **DIMENSIONS:**

DISTRIBUTION:

MANUFACTURER: Dobney Foundry Ltd.

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



TACTILE DOMER

PRODUCT TYPE: Tactile Buttons **PRODUCT NAME:** Tactile Dome

DESIGN STYLE: Carborundum- Non-slip

MATERIALS: Stainless Steel 316, Marine Grade

COLOUR/ FINISH: Stainless Steel **DIMENSIONS:** 0.9" Diameter

DISTRIBUTION: Inner Harbour, Old Town,

Chinatown, Rock Bay, New Town,

Goverment Street, Douglas Street

MANUFACTURER:Advantage Tactile SystemsSPECIAL NOTES:See Character area section of

Streetscape Standards for specific

location guidelines.



PIXEL MODULE

PRODUCT TYPE: Type I Wood Bench Backless

PRODUCT NAME: Pixel

DESIGN STYLE:Steel Frame and Ipe Wood SlatsMATERIALS:Glossy Black (RAL 9017) Baked-onCOLOUR/FINISH:Powder Coat Frame, Varnished Slats

DIMENSIONS: See Cut sheet for details

DISTRIBUTION: Temporary Interventions/ All public

space and streets

MANUFACTURER:

SPECIAL NOTES: Maglin Site Furniture

More detailed guideline to be developed for tactical urbanism

applications and toolkit



lpe Wood STYLE 1—Square Profile

CHINATOWN CHARACTER PAVING - LINKED

PATTERN TYPE: Chinatown Character Paving Pattern **PATTERN NAME:** Character Paving Pattern-Linked

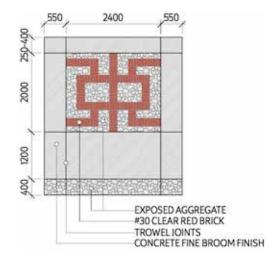
INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** See drawing **DIMENSIONS:** See drawing **APPLICATION:** Sidewalk Patterning

SPACING: See drawing **DISTRIBUTION:** Chinatown

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CHINATOWN CHARACTER PAVING - LONGEVITY

PATTERN TYPE: Chinatown Character Paving

PATTERN NAME: Character Paving Pattern-Longevity

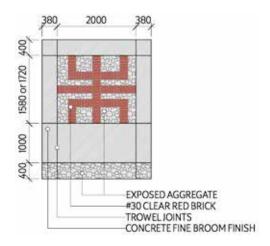
INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** See drawing **DIMENSIONS:** See drawing **APPLICATION:** Sidewalk Patterning

SPACING: See drawing **DISTRIBUTION:** Chinatown

SPECIAL NOTES: 2 different pattern sizes (1580 or

1720); See Character area section of

Streetscape Standards for specific



PATTERN TYPE: Chinatown Paving Pattern **PATTERN NAME:** Paving Pattern Type A

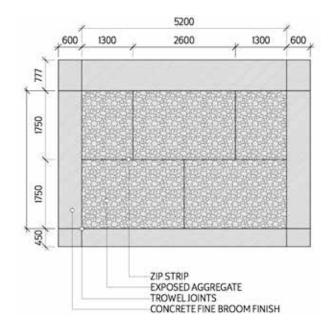
INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** See drawing **DIMENSIONS:** See drawing **APPLICATION:** Sidewalk Patterning

SPACING: See drawing **DISTRIBUTION:** Chinatown

SPECIAL NOTES: For sidewalk areas where character

pavings cannot be accommodated

only.



CHINATOWN PAVING PATTERN TYPE B

PATTERN TYPE: Chinatown Paving Pattern **PATTERN NAME:** Paving Pattern Type B

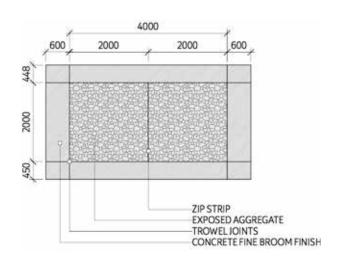
INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** See drawing **DIMENSIONS:** See drawing **APPLICATION:** Sidewalk Patterning

SPACING: See drawing **DISTRIBUTION:** Chinatown

SPECIAL NOTES: For sidewalk areas where

character pavings cannot be

accommodated only.



CONCRETE BAND

PRODUCT TYPE: Concrete Banding **PRODUCT NAME:** Concrete Band **INSTALLATION METHOD:** Cast-in-place **COLOUR/FINISH:** Natural **DIMENSIONS:**

450mm Wide

APPLICATION: Sidewalk Patterning

SPACING: 3m Min. or to Match Architectural

Elements When Possible

DISTRIBUTION: SUPPLIER:

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CONCRETE BROOM FINISH

PRODUCT TYPE: Concrete Paving **PRODUCT NAME:** Concrete Broom Finish

INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** Natural Broom Finish **DIMENSIONS:** 450mm Wide **APPLICATION:** Sidewalk Frame

DISTRIBUTION: SUPPLIER:

SPECIAL NOTES: See sidewalk finishing tools

> section in of the catalog for details on finish and tools; see Character area section of Streetscape Standards for specific location

guidelines.



TROWEL JOINT CONCRETE

PRODUCT TYPE: Concrete Paving **PRODUCT NAME:** Trowel Joint Concrete

INSTALLATION METHOD: Cast-in-place

INSTALLATION NOTE: Prior to broom finish application,

trowel out shoulder to leave only a

score line.

COLOUR/ FINISH: Fine Broom Brush
DIMENSIONS: Plan Specific
APPLICATION: Sidewalk Fill

DISTRIBUTION: SUPPLIER: -

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



CONCRETE UNIT PAVER

PRODUCT TYPE: Concrete Paving **PRODUCT NAME:** Concrete Unit Paver

INSTALLATION METHOD: Mortar set

COLOUR/ FINISH: Natural Grey Unsealed

DIMENSIONS: 225mm Width x 75mm Depth x

60mm Thick

APPLICATION: Paving Field

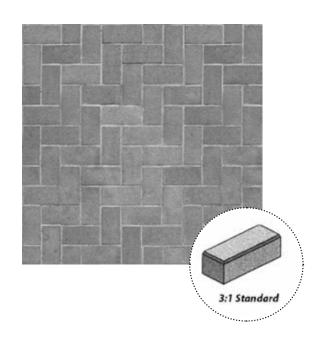
DISTRIBUTION: -

SUPPLIER: Abbotsford Concrete Products Ltd.

 $or\ equivalent$

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



CONCRETE UNIT PAVER

PRODUCT TYPE: Concrete Paving **PRODUCT NAME:** Concrete Unit Paver

INSTALLATION METHOD: Mortar Set **COLOUR/FINISH:** Charcoal Grey

DIMENSIONS: 225mm Width x 75mm Depth x 60mm

Thick

APPLICATION: Main Sidewalk Paving Between

Concrete Banding and Corner Bump

Outs

DISTRIBUTION: -

SUPPLIER: Abbotsford Concrete Products Ltd.

or equivalent

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



BASALT BAND

PRODUCT TYPE: Basalt Banding- street name

PRODUCT NAME: Basalt Band **INSTALLATION METHOD:** Mortar Set

COLOUR/ FINISH: Natural Broom Finish

DIMENSIONS: 450 mm Wide x lenght varies

APPLICATION: Entry Banding

DISTRIBUTION:

SUPPLIER: Bedrock Natural Stone

or equivalent

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



BASALT PAVER

PRODUCT TYPE: Type A Basalt Paving

PRODUCT NAME: Basalt Paver **INSTALLATION METHOD:** Mortar Set

COLOUR/ FINISH: Charcoal Grey, Flame Finish **DIMENSIONS:** 300mm Wdith x 150mm Depth x

80mm Thick

APPLICATION: Feature Banding

DISTRIBUTION: -

SUPPLIER: Bedrock Natural Stone

or equivalent

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



BASALT PAVER

PRODUCT TYPE: Type B Basalt Paving

PRODUCT NAME: Basalt Paver **INSTALLATION METHOD:** Mortar Set

COLOUR/ FINISH: Charcoal Grey, Flame Finish **DIMENSIONS:** 300mm Wdith x 450mm Depth x

80mm Thick

APPLICATION: Entry Banding

DISTRIBUTION: -

SUPPLIER: Bedrock Natural Stone

 $or\ equivalent$

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



GRANITE PAVERS

PRODUCT TYPE: Granite Paving **PRODUCT NAME: Granite Pavers INSTALLATION METHOD:** Mortar Set

COLOUR/ FINISH: Grey, Flame Finish

DIMENSIONS: 300mm Width x 100mm Depth x

80mm Thick

APPLICATION: Paving Field

DISTRIBUTION:

SUPPLIER: Bedrock Natural Stone

or equivalent

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



EXPOSED AGGREGATE

PRODUCT TYPE: Exposed Aggregate Paving

PRODUCT NAME: Exposed Aggregate INSTALLATION METHOD: Cast-in-place **COLOUR/FINISH:** Dark Grey **DIMENSIONS:** Fit to Size

APPLICATION: Main Paving Field at Corners

DISTRIBUTION: Chinatown

SUPPLIER: Bedrock Natural Stone or Equivalent **SPECIAL NOTES:** See Character area section of

Streetscape Standards for specific



RESIN BOUND POROUS SURFACING

PRODUCT TYPE: Resin Bound Surfacing **PRODUCT NAME:** Resin Bound Porous Surfacing

INSTALLATION METHOD: Pour-in-place

COLOUR/FINISH: Natural Grey, Smooth Finish **DIMENSIONS:** Varies to Fit the Paving Grid

APPLICATION: Tree Grates

DISTRIBUTION: Inner Harbour, Old Town,

> Chinatown, Rock Bay, New Town, Goverment Street, Douglas Street Romex Canada West or equivalent

SPECIAL NOTES: See Character area section of Streetscape Standards for specific

location guidelines.



HERITAGE WOOD PAVER

SUPPLIER:

PRODUCT TYPE: Wood Paving

PRODUCT NAME: Heritage Wood Paver

INSTALLATION METHOD: -

COLOUR/FINISH: Wood

DIMENSIONS: 7.75inch Lenth x 2.75" Width

APPLICATION: Main Alley Paving **DISTRIBUTION:** Waddington Alley **SUPPLIER:** City of Victoria

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



BRICK PAVER

PRODUCT TYPE: Brick Paving Type A

PRODUCT NAME: Brick Paver **INSTALLATION METHOD:** Mortar Set

COLOUR/FINISH:

DIMENSIONS: 94mm Width x 194mm Depth x

57mm Thick

APPLICATION: Main Paving Field, Boulevard Band

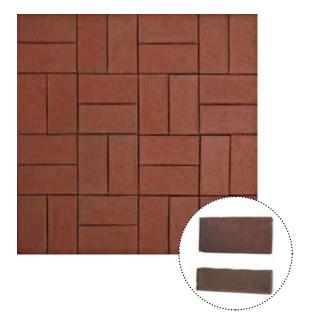
DISTRIBUTION:

SUPPLIER: Interstate Brick

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



BRICK PAVER

PRODUCT TYPE: Brick Paving Type B

PRODUCT NAME: Brick Paver **INSTALLATION METHOD:** Mortar Set

COLOUR/FINISH: Orange Red, Smooth Finish **DIMENSIONS:** 94mm Width x 194mm Depth x

25mm Thick

APPLICATION: Feature Banding

DISTRIBUTION:

SUPPLIER: Interstate Brick

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific



BRICK PAVER

PRODUCT TYPE: Brick Paving Type C

PRODUCT NAME: Brick Paver **INSTALLATION METHOD:** Mortar Set

COLOUR/FINISH: Clear Red, Honed Finish **DIMENSIONS:**

94mm Width x 194mm Depth x

57mm Thick

APPLICATION: Paving Field

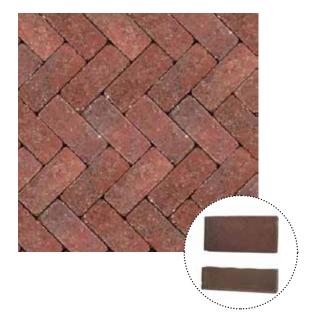
DISTRIBUTION:

SUPPLIER: Interstate Brick

SPECIAL NOTES: See Character area section of

Streetscape Standards for specific

location guidelines.



HERITAGE PAVING PRISM

PRODUCT TYPE: Paving Prism

PRODUCT NAME: Heritage Paving Prism

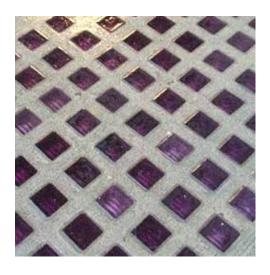
DESIGN STYLE:

MATERIALS: Glass

COLOUR/FINISH: DIMENSIONS: DISTRIBUTION: MANUFACTURER:

SPECIAL NOTES: All existing prisms to be

maintained and paved around.



TROWEL TOOL

16" x 4" Carbon Steel Cement Trowel with ProForm® Soft Grip Handle

- OR EQUIVALENT



Kraft Tool Co.® Carbon Steel Finishing Trowel

Professional Quality, Precision Balanced, and Ready to Use. High quality carbon steel finishing trowel is precision balanced and ready-to-use. Each blade is cross ground to just the right dimension for that perfect feel. A high-strength, lightweight aluminum mounting stands up to the rigors of concrete work. Compression fit stainless steel rivets attach the mounting to the 16" x 4" blade. An oversized toe rivet provides extra strength when applying pressure during finish work. Guaranteed No-Turn handle design locks the handle to mounting. Kraft Tool's signature flat trowel with patented ProForm® soft grip handle (US Patent #6,247,204 B1) provides a comfortable grip. The bright orange handle is easy to spot on a jobsite even after use. The contoured shape and enhanced texture ribbing of the handle reduces fatigue and provides a great grip even when wet. Proudly made in the USA.

- · Cross ground carbon steel blade for perfect feel
- . Guaranteed "NO TURN" handle design locks handle to high-strength mounting
- · Compression fit stainless steel rivets
- · Texture ribbing on handle provides a great grip and reduces fatigue

Item ID	CF222PF				
Weight	1.00 LB (0.45 kg)				
Length	16 in. (40.64 cm)				
Width	4 in. (10.16 cm) 3.625 in. (9.20750 cm)				
Height					
Thickness	0.026 in. (0.06604 cm)				
Shank	Aluminum				
Material	Carbon Steel Blade; Aluminum Mounting; ProForm® Handle				
Finish	Cross Ground				
Package Contents	Trowel				
Blade Material	Carbon Steel				
Blade Length	16 in. (40,64 cm)				
Blade Type	Carbon Steel				
Handle	ProForm® (U.S. Patent #6,247,204 B1)(
Handle Material	PraForm® Saft Grip				
Handle Length	5 in. (12.70 cm)				
Accessories	Trowel Sharpener (CF200)				

CONCRETE FINISHING BROOM

24" Green Nylex® Soft Finish Broom with Handle

- OR EQUIVALENT



Green Nylex Soft Finish Broom

- · Soft concrete finish broom with 5' wood handle
- · Memory resistant soft green Nylex bristles



Item ID	CC454
Weight	1.50 LB (0.68 kg)
Material	Nylex™
Handle	Threaded (CC163)
Handle Material	Wood
Handle Length	60 in. (152.40 cm)
Trim Material	Soft Green Nylex®

PRODUCT CUT SHEETS

ASHBERY PEDESTRIAN

Product Data Sheet



Ashbery is a trio of lights that brings together advanced LED technology and optics with an homage to traditional-style lights that have a special place in the American lexicon. The pedestrian light is offered in 12', 14' and 16' heights and is ideal for campuses, parks and plazas, helping to create public spaces that are usable 24 hours a day. Options include single luminaires or a double-mount option for dual luminaires, one on either side of the pole. Patent-pending glare control requires less eye adaptation, enabling lower light levels and lower energy use with excellent visual acuity, while tenon-mounted luminaires can be retrofitted in the field. Cast aluminum parts in a full color palette are finished with Landscape Forms proprietary Pangard II® HAPS, VOC, lead-free polyester powdercoat.

Lighting Facts®

Landscape Forms is committed to the development of energy efficient lighting. We participate in the Department of Energy Lighting Facts® label program. This activity is voluntary but helps consumers evaluate the multitude of products on the market today. The Lighting Facts® label provides a quick but comprehensive summary of luminaire performance as measured by the IESNA LM-79 photometric test standard for solid state lighting.

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 LED dimmable driver. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability. Ashbery Pedestrian ships prewired.

Pedestrian Type 3

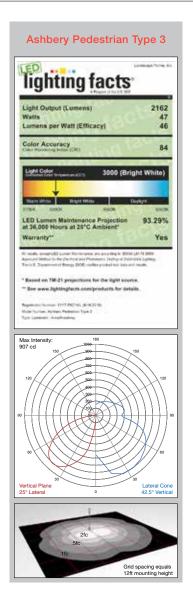
Type 3 Distribution

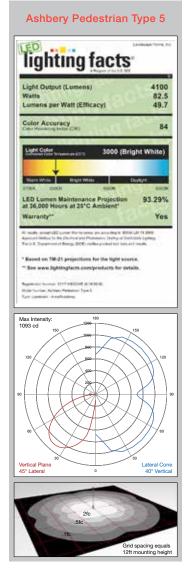
Lamp: 6 Cree XHP50 LEDs
CCT: 3000K, 3500K, 4000K
L70: >100,000 hrs
Drive Current: 1000mA
Optic: Carclo Optics
Lens: Diffused Acrylite®
Power Supply: 100V-277V
LED Driver: TRP PLED-50W
Dimmable: 0-10V
BUG Rating: B1 U1 G1
IP Rating: IP66 for LED Cartridge

Pedestrian Type 5

Type 5 Distribution

Lamp: 12 Cree XHP50 LEDs
CCT: 3000K, 3500K, 4000K
L70: >100,000 hrs
Drive Current: 1000mA
Optic: Carclo Optics
Lens: Diffused Acrylite®
Power Supply: 100V-277V
LED Driver: TRP PLED-96W
Dimmable: 0-10V
BUG Rating: B2 U1 G1
IP Rating: IP66 for LED Cartridge





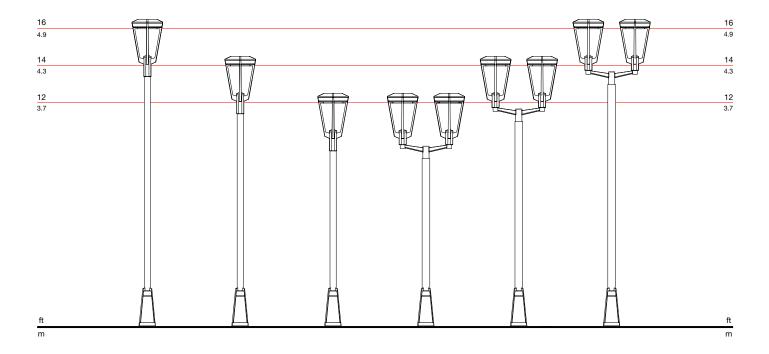
ASHBERY PEDESTRIAN LIGHT

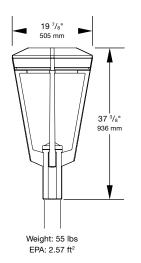
Product Data Sheet

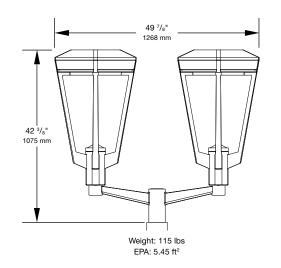


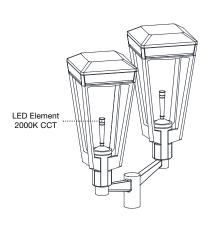












ASHBERY PEDESTRIAN LIGHT

Product Data Sheet







To Order Ashbery Pedestrian Luminaire

Specify in order: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Center Element, Connection, Optional Twist Lock Receptacle and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Center Element	Connection	Twist Lock*	
AP ASHBERY	206L3 (6 LED Type 3) 212L5 (12 LED Type 5)	100F (1000 mA)	40K (4000K) 35K (3500K) 30K (3000K)	UV1 (100-277VAC)	20K (2000K)	P2 (Single Tenon) CC1 (Arm Mount)	NTW (No Twist Lock) TW1 (Twist Lock)	

EXAMPLE: AP - 206L3 - 100F - 35K / UV1 - 20K - P2 - TW1 - Powdercoat Color

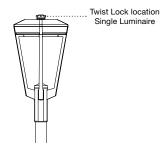
*If luminaire is specified with CC1 (Arm Mount), specify optional Twist Lock Receptacle with pole.

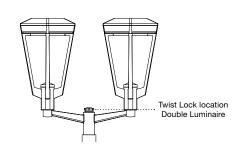
To Order Ashbery Pedestrian Aluminum Pole

Specify in order: Product, Height, Connection, Pole Diameter, Base Cover, optional Twist Lock Receptacle and Powerdoat Color.

Q)	Product	Height	Connection	Pole Diameter	Base	Twist Lock	
Single Luminaire	AP ASHBERY	12 (144in) 14 (168in) 16 (192in)	P2 (Single Tenon)	4 (4 inches)	NUT (Nut Covers) CVR (Cover Plate)	To be specified with luminaire.	
Luminaire	Product	Height	Connection	Pole Diameter	Base	Twist Lock	

EXAMPLE: AP - 14 - P2 - 4 - CVR - Powdercoat Color





-CUTSHEET- LIGHTING

ASHBERY PEDESTRIAN LIGHT

Product Data Sheet







Finish

Pangard® II, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that produces the finest metal finish available for site furniture. In addition, Pangard® II contains no heavy metals and is free of Hazardous Air Pollutants.

Warranty

LED lighting products are warranted for six years.

Other

UL Listed, RoHS Compliant U.S. Patent Pending







Ashbery is designed by Robert A.M. Stern Architects

ASHBERY WALL MOUNT

Product Data Sheet



Ashbery is a trio of lights that brings together advanced LED technology and optics with an homage to traditional-style lights that have a special place in the American lexicon. The wall mounted light is designed to provide soft lighting adjacent to buildings to extend the safe use of outdoor areas. Cast aluminum parts in a full color palette are finished with Landscape Forms proprietary Pangard II® HAPS, VOC, lead-free polyester powdercoat.

Lighting Facts®

Landscape Forms is committed to the development of energy efficient lighting. We participate in the Department of Energy Lighting Facts® label program. This activity is voluntary but helps consumers evaluate the multitude of products on the market today. The Lighting Facts® label provides a quick but comprehensive summary of luminaire performance as measured by the IESNA LM-79 photometric test standard for solid state lighting.

Electrical

Surge protected 100V-277V 50/60 Hz, Class 2 LED dimmable driver. Ashbery Wall Mount ships prewired. LED cartridge with weatherproof quick disconnect provides ease of installation and serviceability.

Ashbery Wall Mount

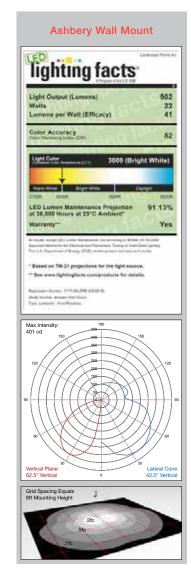
Type 3 Distribution

Lamp: 8 Cree XP-G2 LEDs CCT: 3000K, 3500K, 4000K L70: >100,000 hrs

Drive Current: 700mA
Optic: Khatod Collimators
Lens: Diffused Acrylite®
Power Supply: 100V-277V
LED Driver: TRP LED-20W
Dimmable: 0-10V
BUG Rating: B0 U1 G1

IP Rating: IP66 for LED Cartridge

Weight: 28 lbs





ASHBERY WALL MOUNT

Product Data Sheet







Finish

Pangard II® polyester powdercoat finish, offered exclusively by Landscape Forms, is a 19 step program of cleaning, priming, and powdercoating that resists rusting, chipping, peeling and fading. Pangard II® contains no heavy metals, is HAPs-free and has extremely low VOCs.

To Order

Specify in order: Product, Lamp, Drive Current, Color Temperature, Input Voltage, Center Element, Mounting, optional Twist Lock receptacle and Powdercoat Color.

Product	Lamp	Drive Current	Color Temp.	Input Voltage	Center Element	Mounting	Twist Lock
AP ASHBERY	108L3 (8 LED Type 3)	070F (700 mA)	40K (4000K) 35K (3500K) 30K (3000K)	UV1 (100-277VAC)	20K (2000K)	MW1 (Wall Mount)	NTW (No Twist Lock) TW1 (Twist Lock)

EXAMPLE: AP - 108L3 - 070F - 35K / UV1 - 20K - CC1W - NTW - Powdercoat Color

Warranty

LED lighting products are warranted for six years.

Other

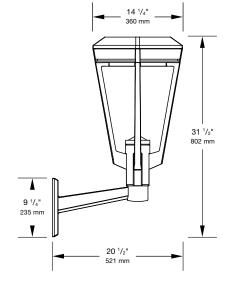
UL Listed, RoHS Compliant U.S. Patent Pending

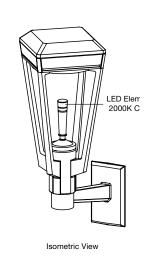






Ashbery is designed by Robert A.M. Stern Architects





Visit our landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. ©2016 Landscape Forms, Inc. Printed in U.S.A.

300 SERIES

MLB300-M



MATERIALS: Bench ends are made from solid cast aluminum. The seat employs flat bar straps and H.S. steel tube.

FINISH: All steel components are protected with E-Coat rust proofing.

The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bench is delivered pre-assembled. Holes (0.5") are provided in each foot for securing to base.

TO SPECIFY: Select MLB300-M

Choose:

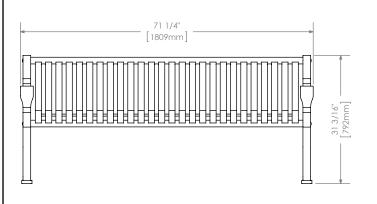
- Powdercoat Color

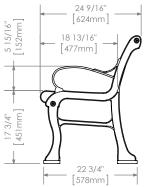
OPTIONS: - Center Arm

- Plaque

- Skate Deterrent

- Personalization





DIMENSIONS:

 Height:
 31.19" (79.2cm)

 Length:
 71.25" (180.9cm)

 Depth:
 24.56" (62.4cm)

 Weight:
 130.3lbs (59.1kg)

MAGLIN

T 800-716-5506 F 877-260-9393 WWW.MAGLIN.COM SALES@MAGLIN.COM

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- Details and specifications may vary due to continuing improvements of our products.



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MLB300-W

MATERIALS: Bench ends are made from solid cast

aluminum. The seat employs 1.00" x 2.75"

(2.5 cm x 7.0 cm) lpe wood slats.

FINISH: All steel components are protected with E-Coat

> rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces. Wood slats are finished with penetrating sealers

INSTALLATION: The bench is delivered pre-assembled. Holes

(0.5") are provided in each foot for securing to

base.

TO SPECIFY: Select MLB300-W

Choose:

- Powdercoat Color

OPTIONS: - Center Arm

- Plaque

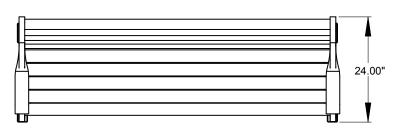
- Skate Deterrent

- Personalization

COMPLEMENTARY PRODUCTS:

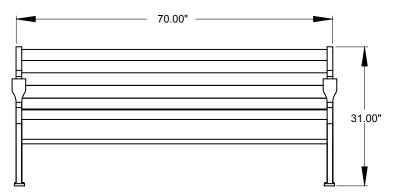
- MLWR550-32

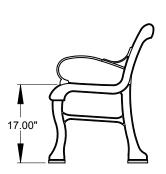
- MTB200 Series



DIMENSIONS:

Height: 31.00" (78.7 cm) Length: 70.00" (177.8 cm) Depth: 24.00" (60.9 cm) Seat: 17.00" (43.2 cm) Weight: 95lbs (43kg)





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MLB300B-M

MATERIALS: Bench ends are made from solid cast

aluminum. The seat employs H.S. steel tube

and flat bar straps or lpe wood slats.

FINISH: All steel components are protected with E-Coat

rust proofing. The Maglin Powdercoat System provides a durable finish on all metal surfaces.

INSTALLATION: The bench is delivered pre-assembled. Holes

(0.5") are provided in each foot for securing

to base.

TO SPECIFY: Select MLB300B-M

Choose:

- Powdercoat Color

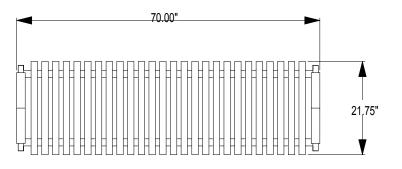
COMPLEMENTARY PRODUCTS:

- MLB300-M

- MLWR550-32

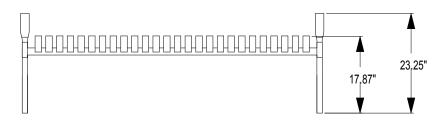
- MBR200 Series





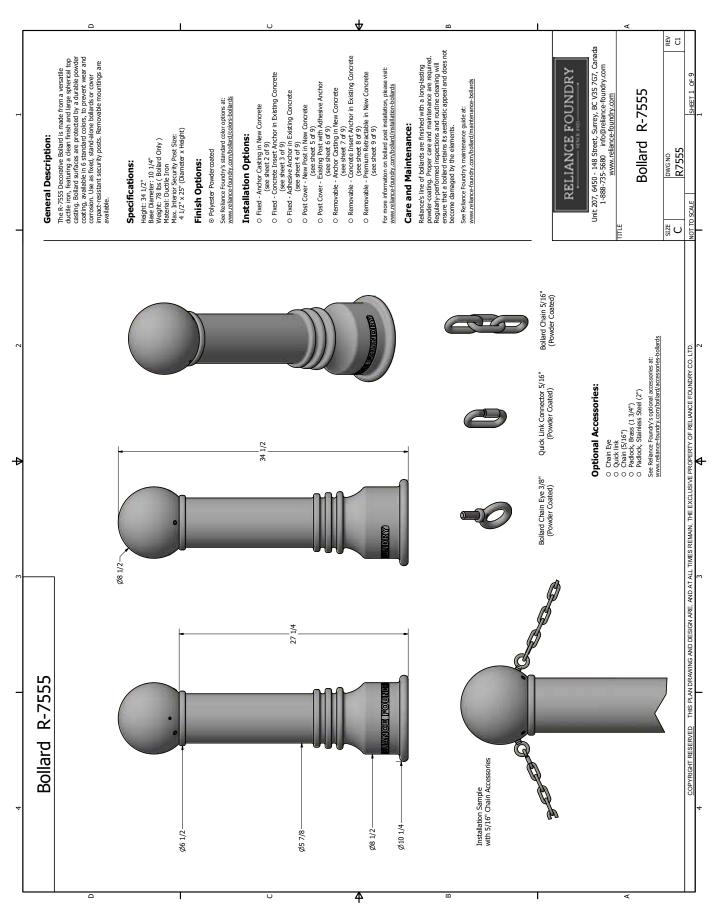
DIMENSIONS:

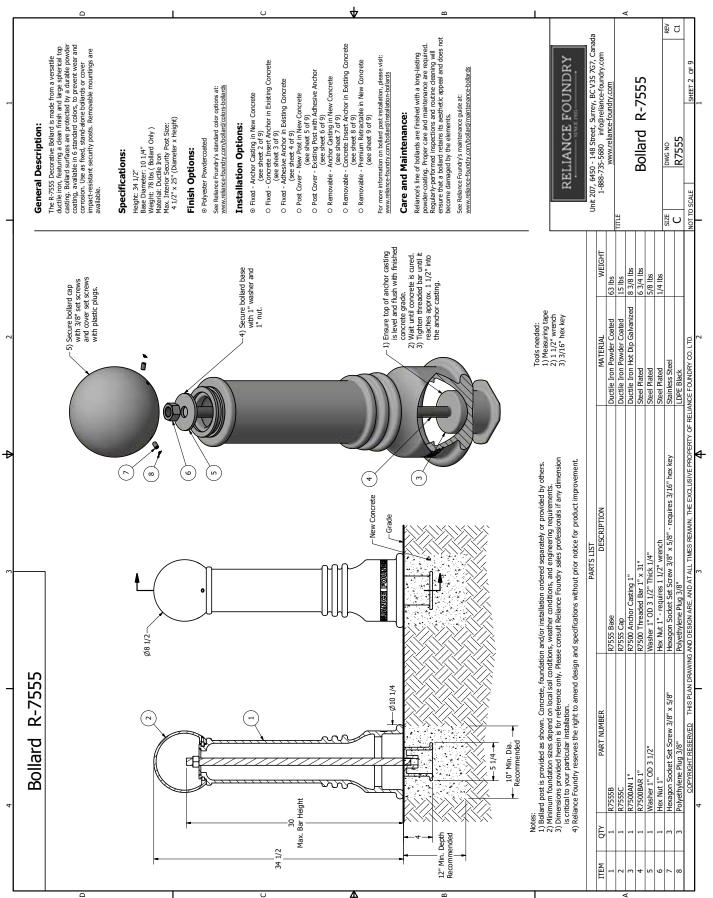
Height: 23.25" (59.1 cm)
Length: 70.00" (177.8 cm)
Depth: 21.75" (55.2 cm)
Seat: 17.87" (45.4 cm)
Weight: 100lbs (44kg)

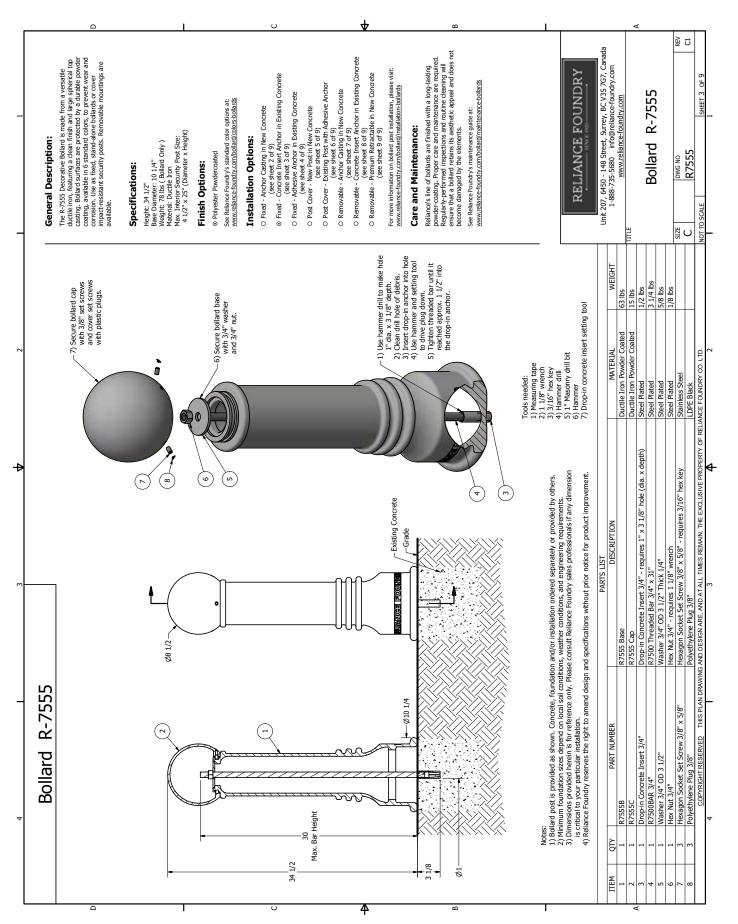


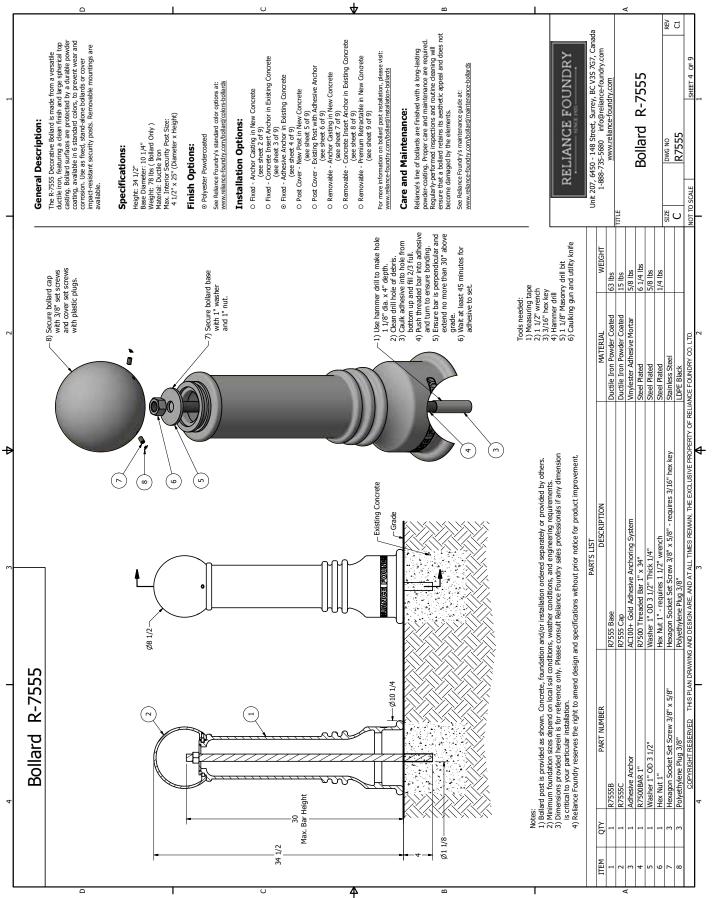


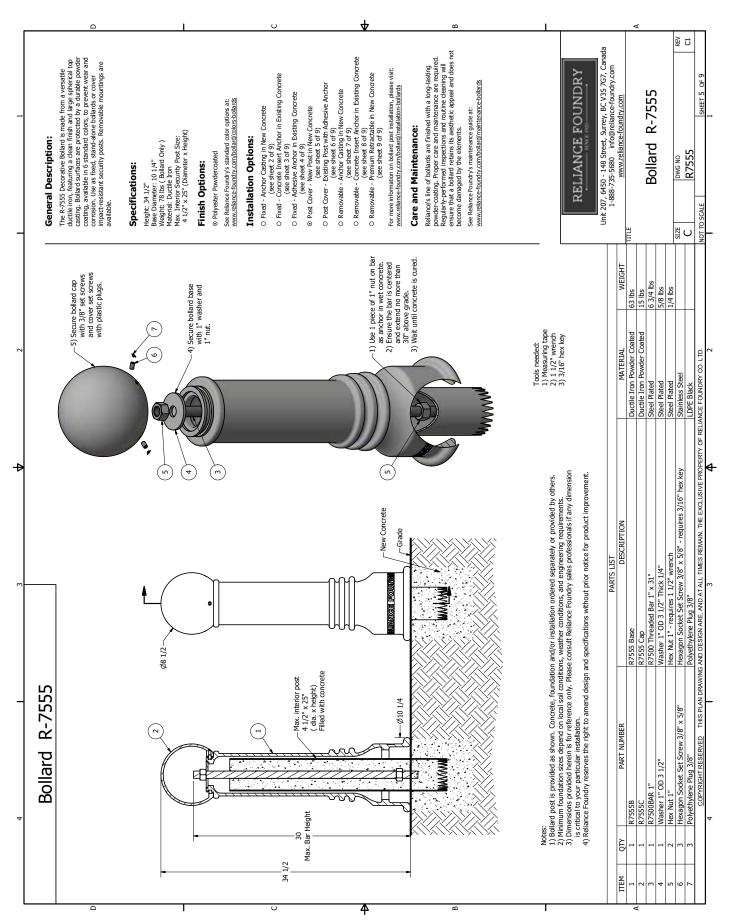
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-Details and specifications may vary due to continuing improvements of our products.

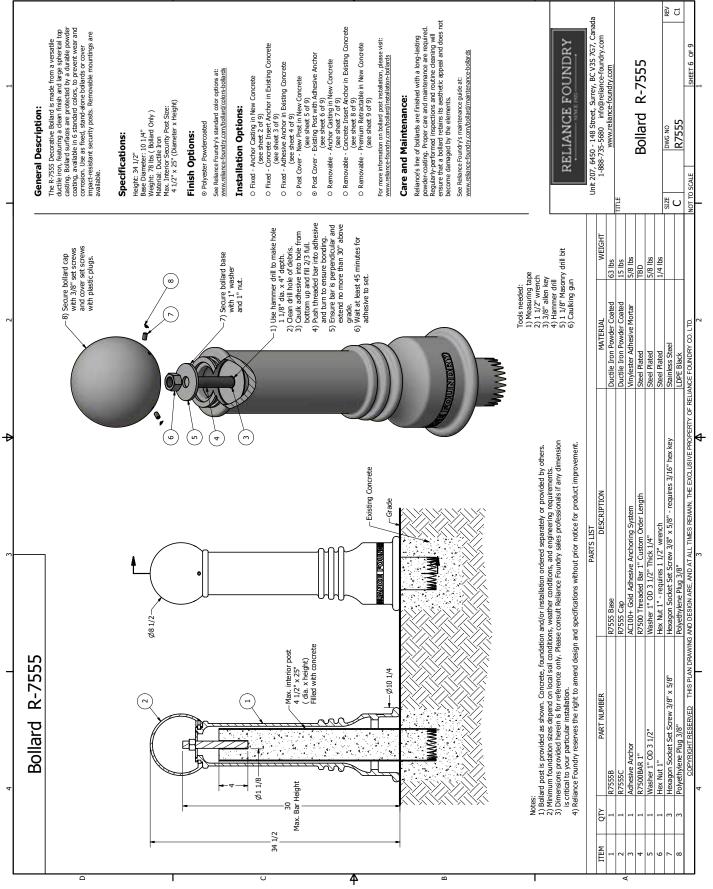


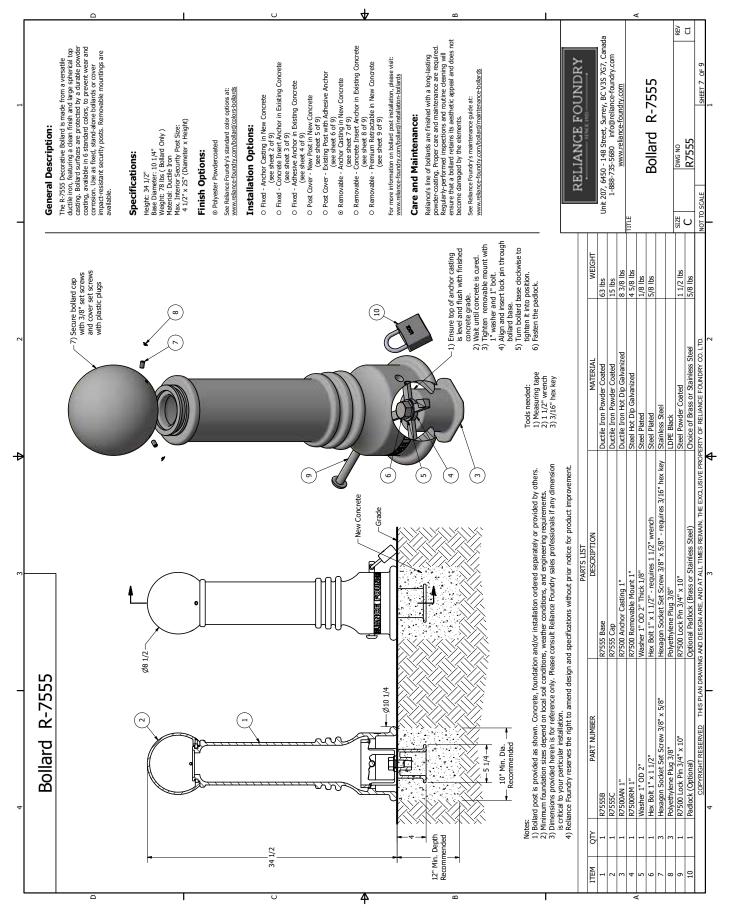


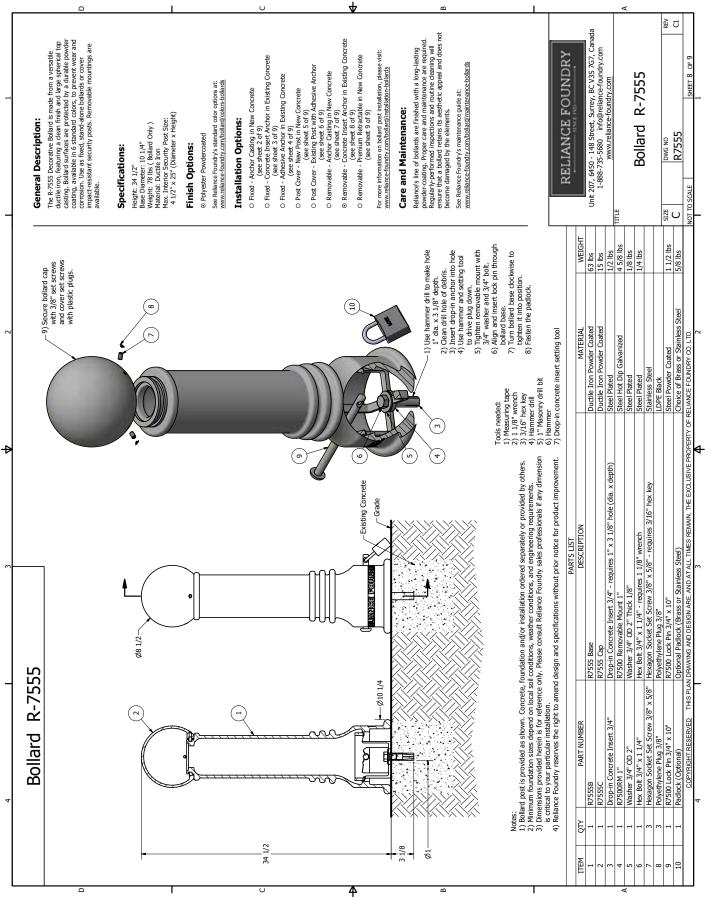


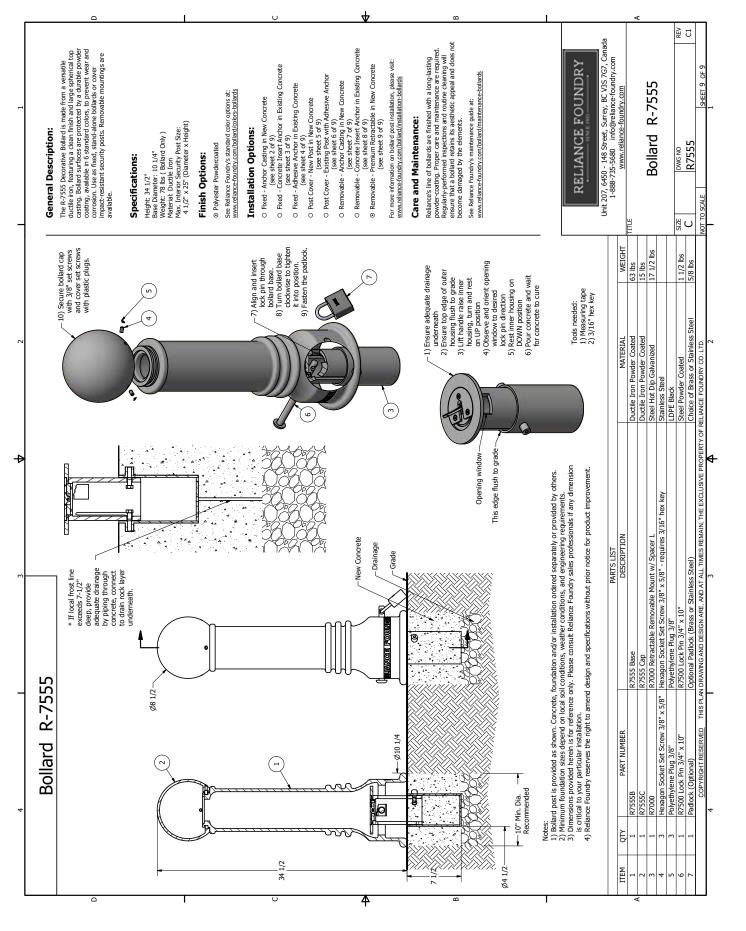






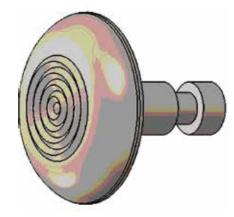






DRAVING IND. ADV-D-1281-N

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	PROJECT NAMER			



ISOMETRIC VIEW NT.S.

"ALL DIMENSIONS ARE SHOWN IN INCHES"

ADVANTAGE ONE
TACTLE VALKING SURFACE INDICATORS
STAINLESS STEL. TRUNCATED DOME ATTENTION
CONCENTRIC CIRCLES

ADV-D-1281-N

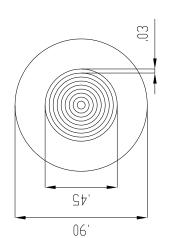
PROLECT

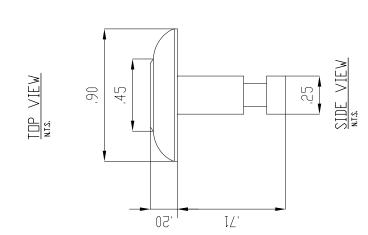
menu. :tainless Steel 316, Marine Grade suecr

TACTILE VALICING SUFACE INDICATORS

PART IS. ADV-B-3281-N

IWSI





Product Sheet Green Circular Bench

Mobile tree planter with integrated hardwood seating





Product Code GCB-D230-PC

Dimensions ca. 230x85cm | 91x33" (Øxh)

Material Seat: timber, untreated 100% Hardwood (Cumaru)

Slats: (3,5x5,7cm | 1.4x2.2") ca. 40cm | 16" depth

Aluminium tub, powdercoated in RAL color

Weight ca. 240 kg = 530 lbs.

Packing unit Completely preassembled

Cleaning & Maintenance Timber: with clear water and soft brush or cloth; do not use high

pressure cleaner or similar (this can open up the wood grain and make the surface coarse). The timber can be gently sanded every 2-3

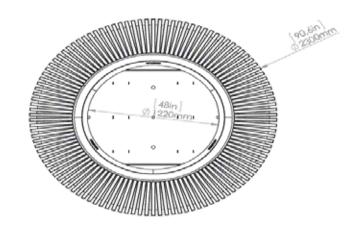
years (in the direction of the wood grain)

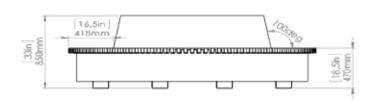
Clean annually with clear water and mild detergents

Rendering



STREETLIFE®





*Metric units are leading

Design: Streetlife

Protected by int. Modeldepots & Patents

BLOCKS





TOPS



lpe Wood STYLE 1-Square Profile



lpe/Thermal Wood STYLE 2—Rectangular Profile



Steel STYLE 1- Groles Pattern



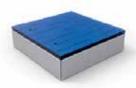
Steel STYLE 2-Lines Pattern



Steel STYLE 3-Planter



Chroma STYLE 1- Circles Pattern



Chroma STYLE 2-Lines Pattern



Cladding 1 SIDE-Style 1 Only Available on Standard Style 1 Backrest



Cladding 2 SIDES-Style 1 Only

* Note: If a square-profile top is selected, the height will increase by 9/16" (0.56cm).

BACKREST TOPS



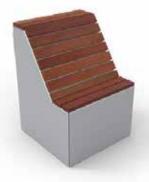
Standard STYLE 1-Square Profile



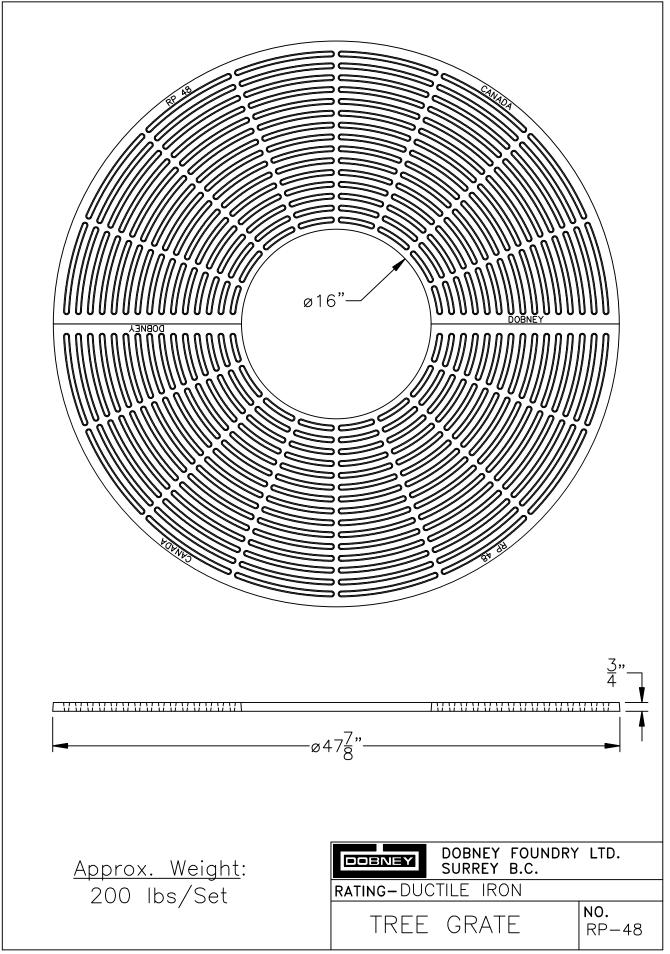
Lounge STYLE 1-Square Profile

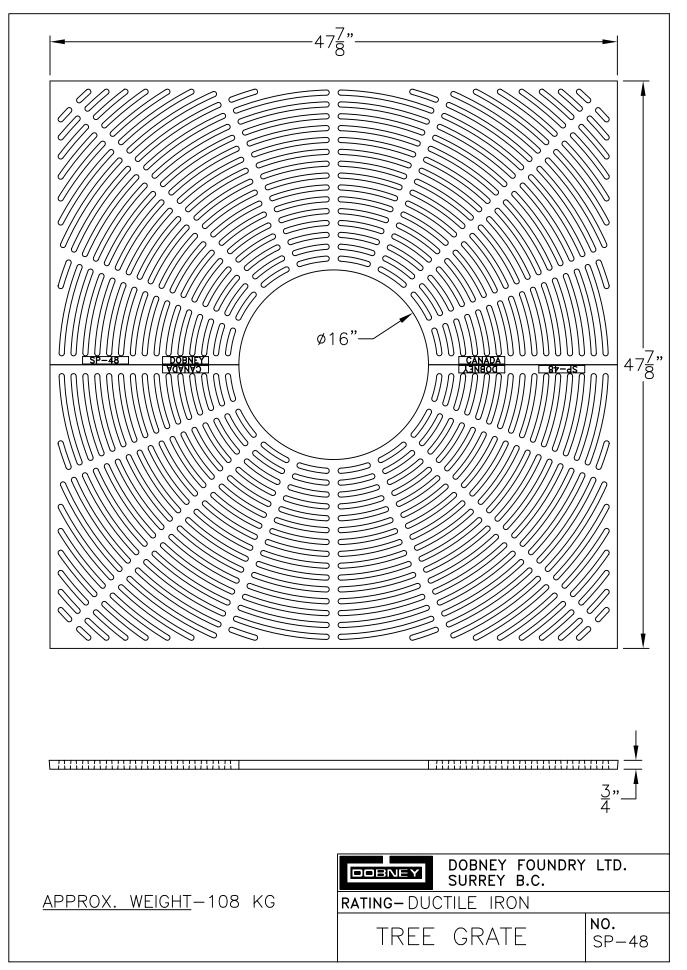


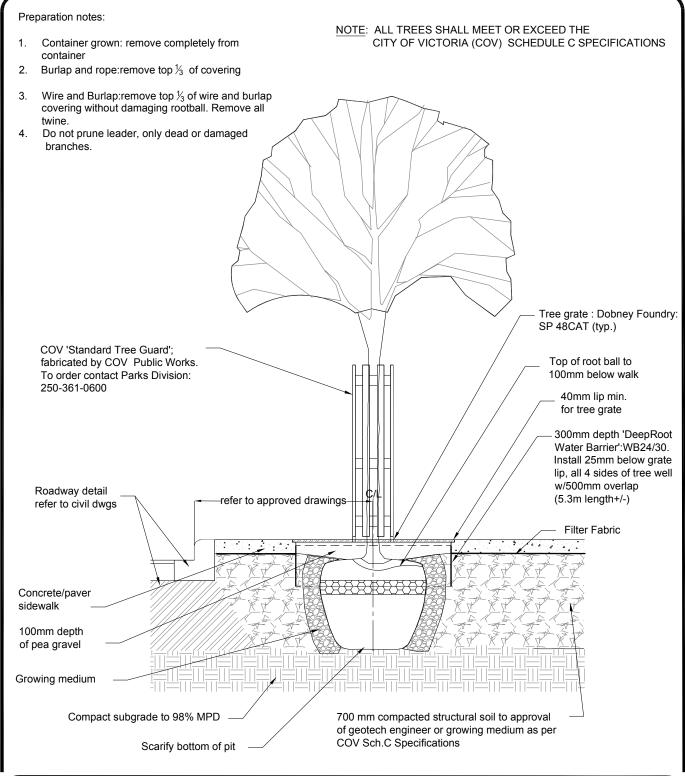
Standard STYLE 2—Rectangular Profile



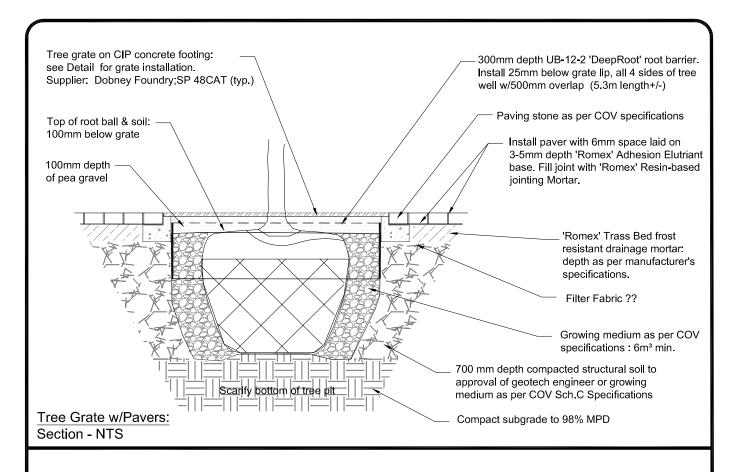
Lounge STYLE 2-Rectangular Profile



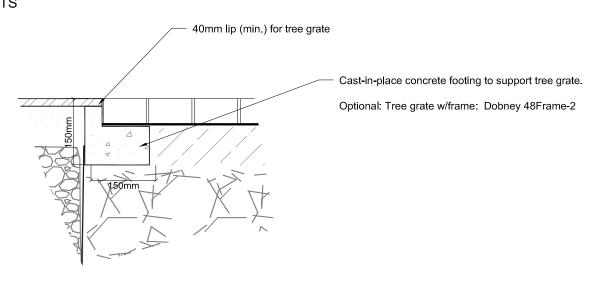








Concrete Footing Detail: Section - NTS



VICTORIA Parks Division	File:		draft - for re	view
TITLE:		SCALE:	Not to Scale	DRAWING
Tree Planting in Sidewalk		DATE:	Dec.11, 2018	
with Tree Grate & Pavers		DWN.:		
		APP'D.:		

ROMPOX®-D1



The proven paving jointing mortar

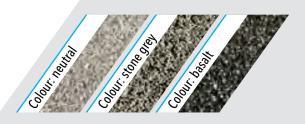
2 component epoxy resin paving jointing mortar



PROPERTIES

- for light to medium traffic loads
- \bullet for joint widths from 3 mm | $1\!\!/\!\!\! s"$
- for joint depths from 30 mm | 1 3/16"
- water permeable

- self compacting
- water emulsifiable
- can be applied to ground temperatures of > 0 °C | > 32 °F





INFO





Films & Consumption calculator at www.romex-pfm.de

Application

Construction site requirements: The foundation needs to be prepared according to the expected traffic loads. Regulations and leaflets regarding construction of paved stone surfaces should be heeded. Future loads must not cause the surface to settle or loosen stones. Ideally "ROMEX®-TRASS-BED - the frost resistant drainage mortar" should be used. See separate product information.

Preparation: Clean out joints to a depth of at least 30 mm | 1 3/16" (minimum joint width 3 mm | 1/16"). The surface to be joint-fixed should be cleaned of all impurities before work commences. Adjoining surfaces that are not to be joint-fixed are taped off.

Pre-wet: Pre-wet the surface. Porous surfaces as well as higher surface temperatures, require more intense

Mix: Pour the 25kg | 55,1 lbs filler components into the mixing tub and start the mixing process. Whilst mixing, slowly add the separately packaged components completely into the mixture. After mixing for 3 minutes add water according to the product package and continue mixing well for at least 3 minutes.

Application: Apply the mixed paving jointing mortar onto the well moistened surface and work it carefully into the joints using a squeegee/rubber slider. The mortar is poured out at three or four spots within the jointing area in order to make best use of the fluidity of the paving jointing mortar. Application time at +20°C / +68°F is approx. 20 – 30 minutes.

Final cleaning: After approx. 10 - 15 minutes the excess mortar on the surface of the stones can be swept off carefully with a large, coarse broom. Then use a soft, hair broom to do a final cleaning until all residual mortar has been removed from the surface. The correct moment for sweeping, is when white smears no longer form on the stone surface during sweeping. Sweeping should be done diagonally to the joint. Do not re-use swept off material.

Subsequent treatment: The freshly jointed surface needs to be protected against rain for the next 12 - 24 hours. The rain protection layer must not be laid directly onto the paved surface this is to ensure sufficient air circulation. Safe rain protection is afforded by the specially developed ROMEX® protective surface mats, that can be simply laid on the surface. Please ask your trade supplier. During the initial period a very thin film of epoxy resin remains on the stone surface and intensifies the colour of the stone and protects it from dirt. This film disappears over the course of time due to weathering and abrasion.

Application data:

• • •	
Application time:	20-30 minutes at +20°C +68°F application temperature
Surface temperature:	> 0 °C > 32 °F
at lower temperatures:	slow hardening
at high temperatures:	quick hardening
Surface re-opening:	can be walked on after 12 – 24 hours/can be driven on after 6 days

Technical data:	Laboratory value*1	Building site value*2	
Hard mortar raw density:	1,68 kg/dm³ 0,97 oz/in ³	1,43 kg/dm³ 0,83 oz/in ³	
Bending tensile strength:	12,0 N/mm² 1. 740 psi	7,9 N/mm² 1.145 psi	
Compressive strength:	34,2 N/mm² 4.960 psi	16,6 N/mm² 2.408 psi	
Static elasticity module:	8.000 N/mm ² 1.160.302 psi	2.180 N/mm ² 316.182 psi	
Water permeability value:	-	7,5 x 10 ⁻⁴ m/s 106,2 iph	
		(for a joint fraction of 10%)*3	

Storage life: 24 months, resin/hardener components: frostfree, filler components: dry

Consumption table in kg/m2 | lb/sq ft - Basis for calculation: Joint depth 30 mm | 1 3/16"

	Stone size	40 x 40 cm 16" x 16"	20 x 20 cm 8" x 8"	16 x 24 cm 6 5/16" x 10"	14 x 16 cm 5 %6" x 6 %6"	9 x 11 cm 3 %6" x 4 %"	4 x 6 cm 1 %" x 2 %"
£_	3 mm 1/8"	0,7 0,14	1,4 0,29	1,4 0,29	1,7 0,35	2,6 0,53	4,9 1,00
width 		1,1 0,23	2,3 0,47	2,4 0,49	2,9 0,59	4,4 0,90	8,1 1,66
Joint —	8 mm 5/16"	1,8 0,37	3,6 0,74	3,8 0,78	4,6 0,94	7,0 1,43	13,0 2,66
→ P	olygonal slabs			appro	ox. 4-6 0,8 - 1,23		







Add water



Sweep off





Final cleaning

^{*1} without addition of water

^{*}² acc. to ROMEX® testing method

^{*3} water permeable acc. to "Leaflet on water permeable pavements and roads" by Research institute for road and traffic (Germany); issue 1998

Standard specifications for

ROMPOX®-PROFI-DEKO

The professional sand and gravel binder

2 component synthetic resin binding agent for washed, dried and dust-free silica sand, gravel or grit (grainsize from approx. 0-10 mm) for water permeable pathway constructions, bicycle trails, tree pits etc.



One Set of ROMPOX®-PROFI-DEKO

Proof of procurement:

ROMEX® PFM GmbH, Von-Bassenheim-Str. 2, 53881 Euskirchen- Kessenich GERMANY

Tel: 0049 22 51/94 12-20 - Fax: 0049 22 51 / 94 12 - 28

E-Mail: info@romex-pfm.de - www.romex-pfm.de

We point out that these specifications do not purport to be fully complete, as this requires a detailed study of the project. Should circumstances arise which require further or other work to be carried out, then this must be taken into consideration by those who use these specifications for sale.

BASE AGGREGATE:

sqm/sqft

Provide Base Aggregate materials conforming to ASTM D 2940 and gradation requirements according to standards of e.g. the American Society for Testing and Materials (ASTM) latest addition.

Note: Compaction of the soil subgrade to at least 95% Standard Proctor Density per ASTM D 698 is recommended. Higher density or compaction to ASTM D 1557 (Modified Proctor Density) may be necessary for areas subject to vehicular traffic. Stabilization of the subgrade and/or base material may be necessary with weak or saturated subgrade soils. The Architect/Engineer should inspect subgrade preparation, elevations, and conduct density tests for conformance to specifications.

Note: Local aggregate base materials typical to those used for flexible pavements are recommended, or those conforming to ASTM D 2940. Compaction to not less than 95% Proctor Density in accordance with ASTM D 698 is recommended for pedestrian areas. Compaction to not less than 98% Modified Proctor Density according to ASTM D 1557 is recommended for vehicular areas.

1. Prepare the construction site and if necessary, arrange for traffic detour. The surface to be worked on must have a depth of at least 30 mm (1,18 inch) and the foundation should be compacted, water permeable and firm. Adjoining surfaces should be taped off.

2. Mix one Set of the 2 component synthetic resin binding agent ROMPOX®-PROFI-**DEKO** according to manufacturer's instructions with

72,5 kg/160 lbs washed, dried and dust-free silica sand supplied by the contractor, for at least 5 minutes. Specification for silica sand or similar:

This material is derived from the crushing, screening and classification systems currently used to process the very pure quartzite mined in the quarry.

Typical chemical analysis (weight %)

SiO2	99.40
Al2O3	0.50
Fe2O3	0.05

AVERAGE MOISTURE: max. 5.0%

Typical screening analysis

Screen Size	(%)	% Retained	% Passing
1700	3.40	3.40	96.60
1400	3.78	7.18	92.82
1000	23.52	30.70	69.30
710	43.06	73.76	26.24
425	24.15	97.91	2.09
125	1.98	99.89	0.11
PAN	0.11	100.00	0.00

One set of ROMPOX-PROFI-DEKO for 72,5 kg/ 160 lbs. = for 1,5 m²/ 16 sqft.

Pour the prepared mixture onto the prepared surface and use a shovel to spread well. Using a levelling batten, scrape off so it is of equal height all over. Using a bricklaying trowel by hand or a wing smoother, compact the mixture well and smooth the surface. In order to minimise uncontrolled breakages, after the surface has fully hardened, predetermined breaking points should be laid every 5,00 m to max. 7,00 m. Please take note of the manufacturer's instructions.

3. Immediately after the surface has hardened (usually after 24 hours), the ROMPOX®-PROFI-DEKO-binding agent that has been used, is applied undiluted to the stone surface as a sealant, using a brush or fur roller. This results in an even better surface strength and is absolutely recommended.

Requirements for the sealing are approx. 200-300 g / square metre (0,44-0,66 lbs/10 sft.). One Set of ROMPOX®-PROFI-DEKO is for about 12,5 sqm (135 sqft).

ROMEX®-TRASS BED

Frost resistant drainage mortar

Drainage trass bed mortar



- for pedestrian and traffic loads
- from 3 cm | 1 3/16" layer thickness
- highly water permeable
- prevents frost damage
- lessens waterlogging + discolouration
- ready to use mixture or COMPOUND
- frost and de-icing salt resistant
- easy application
- lessens efflorescence
- Compressive strength > 35 N/mm² | 5.076 psi





ROMEX®-TRASS BED



Films & Consumption calculator at www.romex-pfm.de

Application

 ROMEX^0 -TRASS BED is a highly water permeable bedding mortar Colour: concrete grey with trass additives that lessen efflorescence when laying natural stone paving stones, as well as natural and concrete stone slabs on a frost resistant substructure outdoors.

Construction site requirements: The subsurface needs to be made load bearing, firm and water permeable. Water impermeable load distribution layers (screeds), such as areas with house utility connections as well as any slab coverings that are laid, need to have a slope of at least 1,5-3,0%. Any water that gathers needs to be drained with corresponding drainage measures. In case of any watertight outdoor areas and levels where water flows and partial puddles form, it is recommended installing a suitable capillary-breaking drainage mat.

Mixing: Mix ROMEX® - TRASS BED so it is earth damp, mixing time 2-3 minutes. Water requirement approx. 9% - approx. 3,6-3,8 litres | 0,9-1,0 gal of cool, clean water per 40 kg | 88.2 lbs of ready to use mixture. Mix using a pug mill or gravity mixer, for smaller amounts, mixing can be done in a wheelbarrow or mortar tub. After mixing, the mortar is ready for immediate use. Always use the entire container. Important: Add the water to the mixer first, then the mortar.



Natural stone paving stones:

The thickness of the paved stone bed whilst loose, should be 3-6 cm | 1 \(\frac{3}{6}\)" - 2 \(\frac{3}{6}\)" depending on type of stone and expected loads. Mix ROMEX®-TRASS BED so it is earth damp and pour it loosely into the bed. Paving stones are laid hammer-hard = lay stones individually and hit them 3-4 times with a hammer. When filling the joints, at least 3 cm | 1 \(\frac{3}{6}\)" joint depth from the top edge of the stone is required, in case of traffic loads at least 2/3 the height of the stone. After laying, protect the surface with a sheet - after 24 hours lightly spray with water and cover again for 48 hours. Finally, use ROMEX® paving jointing mortar to fill the joints. After 7 days the surface can be walked on, after 14 days it can be driven on by vehicles up to 3,5t (private surface), after 28 days it is fully load bearing.

Paved stones that have been sawed/measured should be treated with ROMEX® ADHESION ELUTRIANT before laying - the same applies to stones that, because of their shape, cannot be hammered into one third of the paved stone bed.



In general, slabs should be treated with ROMEX® ADHESION ELUTRIANT before laying.

Application data:

Application time:	approx. 2 hrs. (at +20°C +68°F)
Low in chromate acc. to TRGS 613:	Yes
Material consumption:	$40 \text{ kg} \mid 88,2 \text{ lbs} = 22 \text{ litres} \mid 5,8 \text{ gal of fresh concrete approx. } 18,5 \text{ kg/cm}$ layer thickness/m ² $40,8 \text{ lbs} \mid \frac{2}{3} \text{ layer thickness/sqm}$
Addition of water:	3,6-3,8 litres 0,9-1,0 gal of water per 40 kg 88,2 lbs of ready to use mixture
Application temperature:	from $+5$ °C to $+30$ °C 41 °F to 86 °F, do not use on frozen ground
Technical data:	
Compressive strength:	> 35 N/mm² 5.076 psi after 28 days
Water permeability value:	$\geq 1.42 \times 10^{-4} \mathrm{m/s^*} \mid 20.1 \mathrm{iph}$

Storage life: 6 months, dry in original, sealed sack



Fill in water first



Then pour in material and mix



Apply





Lay stones



^{*} water permeable acc. to "Leaflet on water permeable pavements and roads" by Research institute for road and traffic (Germany); issue 1998

ROMEX®-TRASS BED COMPOUND

Application

ROMEX®-TRASS-BED COMPOUND is a binding agent for the manufacture of bound, water permeable base courses for the laying of natural stone paving stones as well as natural and concrete stone slabs on a frost resistant subsurface outdoors and it reduces efflorescence.

Construction site requirements: The subsurface needs to be made load bearing, firm and water permeable. Water impermeable load distribution layers (screeds), such as areas with house utility connections as well as any slab coverings that are laid, need to have a slope of at least 1,5-3,0%. Any water that gathers needs to be drained with corresponding drainage measures. In case of any watertight outdoor areas and levels where water flows and partial puddles form, it is recommended installing a suitable capillarybreaking drainage mat.

Recommended mixing ratio:

1 volume part TRASS® BED COMPOUND = z.B. 10 kg | 22,05 lbs4 volume parts filler material (i.e. rolled grit/gravel) 4-8 mm | 1/7"-5/16" = z.B. 40 kg | 88,2 lbs

Mixing: Mix ROMEX® TRASS® BED COMPOUND in a ratio of 1 to 4 with filler material (i.e. rolled grit/ gravel) 4-8 mm | $\frac{1}{5}$ " so that it is earth damp, mixing time 2-3 minutes. Water requirement approx. $\frac{9}{5}$ % approx. 3,6-3,8 litres | 0,9-1,0 gal of cool, clean water per 40 kg | 88,2 lbs of ready to use mixture. Mix using a pug mill or gravity mixer, for smaller amounts, mixing can be done in a wheelbarrow or mortar tub. After mixing, the mortar is ready for immediate use. Where possible, use the entire container, otherwise weigh the exact amounts needed.

Important: Add the water to the mixer first, then the mortar.

Application:

Natural stone paving stones:

The thickness of the paved stone bed whilst loose, should be 3-6cm | 1 3/6"-2 3/8" depending on type of stone and expected loads. Mix ROMEX® TRASS® BED COMPOUND in a ratio of 1 to 4 with filler material (i.e. rolled grit/gravel) 4-8mm so that it is earth damp and lay loosely. Paving stones are laid hammer-hard = lay stones individually and hit them 3-4 times with a hammer. When filling the joints, at least 3 cm | 1 3/6" joint depth from the top edge of the stone is required, in case of traffic loads at least 2/3 the height of the stone. After laying, protect the surface with a sheet - after 24 hours lightly spray with water and cover again for 48 hours. Finally, use ROMEX® paving jointing mortar to fill the joints. After 7 days the surface can be walked on, after 14 days it can be driven on by vehicles up to 3,5t (private surface), after 28 days it is fully load bearing.

Paved stones that have been sawed/measured should be treated with ROMEX® ADHESION ELUTRIANT before laying - the same applies to stones that, because of their shape, cannot be hammered into one third of the paved stone bed.

Natural and concrete stone slabs:

In general, slabs should be treated with ROMEX® ADHESION ELUTRIANT before laying.

Application data:

Application time:	approx. 2 hrs. (at +20°C +68°F)
Low in chromate acc. to TRGS 613:	Yes
Material consumption:	approx. 18,5 kg/cm layer thickness/m² 40,8 lbs / ½" layer thickness/sqm (approx. 3,7 kg 8,2 lbs should be TRASS BED COMPOUND)
Addition of water:	approx. 9% water per mixture
Application temperature:	from $+5$ °C to $+30$ °C 41 °F to 86 °F, do not use on frozen ground
Technical data:	

Technical data:

Compressive strength:	> 15-25 N/mm² l > 2.176 - 3.626 ps i after 28 days (depending on filler material)
Water permeability value:	\geq 1,42 x 10 ⁻⁴ m/s 20,1 iph (depending on filler material)

Storage life: 6 months, dry in original, sealed sack



Fill in water first



Then pour in material and mix



Level





ROMEX®-ADHESION ELUTRIANT

Application

ROMEX®-ADHESION ELUTRIANT contains trass cement and is tempered with plastic. It is used as an adhesion bridge for the laying of natural and concrete stone slabs on bonded ROMEX®-TRASS BED.

Mixing: To achieve a consistency that is plastic and can be spread, pour 8,5 litres | 2,3 gal of cool, clean water into a container. Then add 25 kg | 55,1 lbs of ROMEX® - ADHESION ELUTRIANT and stir for 3 minutes. After 3 minutes of maturing time stir through again briefly. Always use up the entire container!

Application (two variations):

1st variation:

When laying slabs, $ROMEX^{\otimes}$ - ADHESION ELUTRIANT is applied to the slab underside with a layer thickness of approx. 3-5mm | 1/6"-3/6" using a broad brush/notched trowel and then hammered into the freshly laid drainage mortar.

2nd variation:

Dip the slab 2-3 cm | %"-1 3/6" deep into a tub of ROMEX®-ADHESION ELUTRIANT then immediately hammer into the freshly laid drainage mortar.

Application data:

Application data.	
Application time:	approx. 2 hrs (at +20°C +68°F)
Low in chromate acc. to TRGS 613:	Yes
Material consumption:	$25 \text{kg} \mid 55,1 \text{lbs} = 19 \text{litres} \mid 5 \text{gal} \text{ of fresh mortar approx. } 1,3 \text{kg/mm}$ layer thickness/m ² 2,86 lbs / \%6" layer thickness/sqm
	For layer thickness $3-5 \text{ mm} \mid \frac{1}{8} \text{m}^{-3} \text{h}^{-6}$ = $3.9-6.5 \text{ kg/m}^2 \mid 0.80-1.33 \text{ lb/sq ft} = \emptyset.5 \text{ kg/m}^2 \mid 1.02 \text{ lb/sq ft}$
Addition of water:	8,5 litres 2,3 gal of water per 25 kg 55,1 lbs
Application temperature:	from +5°C bis +30°C 41°F bis 86°F, do not use on frozen ground

Technical data:

•••••••	······································	.
Dry density:	1,5 kg/dm³ 0,87 oz/in³	

Storage life: 6 months, dry in original, sealed sack

Important instruction:

- · Bonded paved stone and slab coverings may have cracks appear as a result of weather influence, temperature swings and traffic loads.
- Base courses/bed that have no drainage capacity may get damaged when moisture penetrates .
- Sawed stones should be roughened on the underside and sides and then treated with ROMEX®-ADHE-SION ELUTRIANT.
- Paved stone work is done by hand, not using a vibratory plate or similar compacting machinery .
- Expansion joints should be laid according to relevant guidelines.
- On impermeable surfaces, measures need to be taken to drain seeping water



Fill in water first



Then pour in material and mix







CONSTRUCTION VARIATIONS

Preparation of subsurface and jointing:

Paving jointing mortars cannot withstand settling of the subsurface. Any expansion joints present in the substructure should be incorporated into the paved stone surface. Expansion joints should be laid according to construction principles. The subsurface should be dimensioned according to the expected traffic loads and be water permeable. Valid regulations should be heeded. ZTVT, ZTVE, RStO, DIN 18318, MFP1 and TL, DNV leaflet, work paper FGSV etc.

Minimum joint depth: \geq 30 mm | 1 $\frac{3}{16}$ " with pedestrian loads, \geq 2/3 of the height of the stone for traffic loads.

Depending on type of paving stone, a gap remains between joint and bed. For cost reasons, this can be filled with a filter stable, water permeable, firm and shrinkage free filler material, i.e. a high quality sand-gravel mixture or if the joints are wide enough, with ROMEX® TRASS BED (sweep it dry into the joints to the minimum jointing depth and then immediately clean the paved stone surface with a fine water jet spray). Alternatively, ROMEX® paving jointing mortar can be worked into the joint completely..

Minimum joint width: 3-8 mm | 1/8" -5/6" depending on ROMEX® PAVING JOINTING MORTAR For joint widths larger than 15 mm | 3/8", the joint depth must be at least double the joint width.

Preparation of stone surface:

Before jointing, the stone surface should be cleaned thoroughly of all soiling such as dirt, oil, rubber residue or rust. Old paving stones: Remove any mortar residue on sides of stones completely.

Construction variants for paving:

Basics: The joint is only as strong as it's substructure. Faults in the substructure result in breakage/cracks, which in turn can lead to damage to intact edge surfaces when subjected to traffic loads.

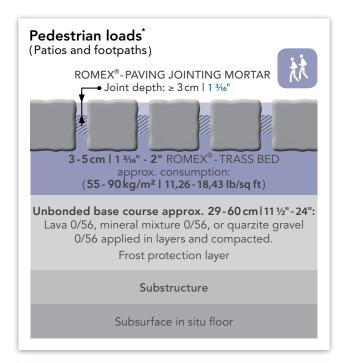
This applies in general for newbuilds:

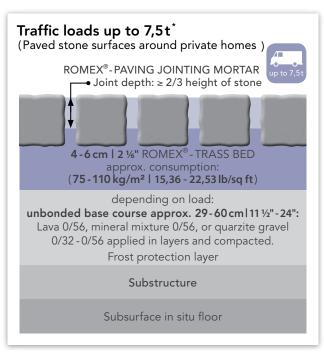
- If the paved surface will only be subjected to pedestrian traffic, then the laying of the paving stones/ slabs can be done on firm and settled gravel/sand mixtures, grain size 0/4~-0/8. Alternatively: the use of ROMEX®-TRASS BED guarantees a non-settling bed.
- Paved surfaces subjected to vehicle loads, are laid on the ROMEX®-TRASS BED, according to the
 expected loads. Please take note of the following sketches.

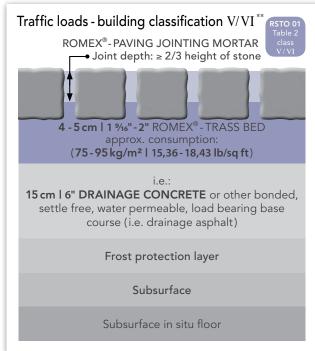
Setup of bonded construction method Stone Joint RSTO 01 FGSV* WTA** ZTVT FGSV DBT*** Substructure ZTVE Subsurface ZTVE

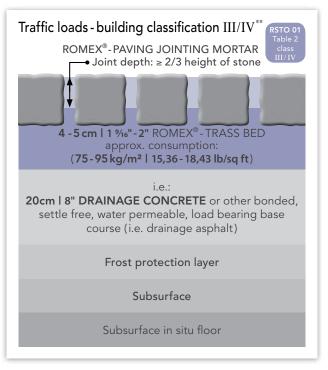
See the following diagrams in this regard:

- * FGSV Work paper surface fixing with paved stone coverings, bonded construction Issue 2007 (no.: 618/2)
- ** WTA Leaflet Bonded construction method historical paving stones (no.: E 5/21: Issue 01/2009/D)
- *** FGSV Leaflet for drainage concrete base courses Issue 1996 (no.: 827)
- **** Frost protection classifications Germany









Pedestrian loads: Depending on type of paving stone, a gap remains between joint and bed. For cost reasons, this can be filled with a filter stable, water permeable, firm and shrinkage free filler material, i.e. a high quality sand-gravel mixture or if the joints are wide enough, with ROMEX® TRASS BED (sweep it dry into the joints to the minimum jointing depth and then immediately clean the paved stone surface with a fine water jet spray). Alternatively, ROMEX® paving jointing mortar can be worked into the joint completely.

^{*} The construction variations are based on ROMEX® experiential values and the current level of ROMEX® Technology. These contain the ROMEX® system guarantee RSG-5. Please ask us for our detailed system guarantee conditions!

^{**} The construction variations are based on the current issues of the valid leaflets and guidelines for bonded construction methods. Issue 03/2010 – We reserve the right to make changes.

