

Langley City Centre Station



Station Design Submission #2

Conceptual rendering, subject to change; does not reflect future transit-oriented development





Surrey Langley SkyTrain

| | | Revision R | ecord | | |
|-----|--------------------------------------|------------|-------------|----------------|------------|
| Rev | Description | Originator | Checker | Approver | Date |
| А | Initiating Station Design Submission | J. Liu | B. Bilodeau | J. Van Der Wal | 2024-06-28 |
| В | Station Design Submission #2 | J. Liu | B. Bilodeau | O. Nassar | 2025-02-10 |
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Prepared by:

Francl Architecture Inc.

970 Homer Street, Vancouver, BC, V6B 2W7, Canada

(604) 688-3252 franclarchitecture.com



Project Team:



Client:





Table of Contents

| Project Overiew | 6 | Platform Plan |
|--|----|-------------------------------------|
| Systemwide Design Brief | 8 | Roof Plan |
| What We Heard | 9 | North, West, South, East Elevations |
| Design Rationale – Station Materiality | 11 | Sections |
| Systemwide Design Enhancements | 12 | Landscape |
| Making Each Station Unique | 13 | - Urban Design & Hardscape Plan |
| Systemwide Design Enhancements | 14 | |
| Site Materials and Finishes | 15 | Illustrative Landscape Plan |
| Landscape Enhancements | 17 | Transit Exchange |
| Design Rationale – Site Furnishing Concept | 18 | Civil Site Plan |
| Langley City Centre Station (203 Street) | 19 | Transit Exchange Rendering |
| Station Site & Context – Urban Context & Development | 20 | |
| Station Drawings | 23 | |
| Making Each Station Unique | 24 | |
| Design Enhancements | 25 | |
| Fire Access Plan | 26 | |
| Accessibility & Connectivity Plan | 27 | |
| Concourse Plan | 28 | |

| 29 |
|----|
| 30 |
| 31 |
| 32 |
| 33 |
| 34 |
| 35 |
| 36 |
| 37 |
| 38 |









Project Overview

Surrey Langley SkyTrain

The Surrey Langley SkyTrain will extend the Expo Line 16 kilometres from King George Station in Surrey to 203 Street in Langley City. The Surrey Langley SkyTrain will improve regional connections and provide fast, frequent, and reliable transit service for people and businesses across Metro Vancouver, especially south of the Fraser River.

Once opened, the commute from Langley City Centre to King George Station will be 22 minutes, saving the average transit commuter approximately 40 minutes a day, relieving congestion along Fraser Highway.



Systemwide Design Brief



What We Heard

Between June 18 and June 30, 2024, the Province invited feedback on the designs of the Surrey Langley SkyTrain stations.

- 74% of respondents noted that they are satisfied with the overall station designs.
- 80% of respondents indicated that they are satisfied with the passenger experience features of the stations

Feedback helped to inform updated station designs. The top comments are summarized below:



Washrooms accessible with assistance of a SkyTrain attendant



Dedicated stall for Transit Police at every station



Secure Bike Parkade at every station

| Langley City | Center Station | Station | Design | Submission | #2 |
|--------------|-----------------------|-----------------------------|--------|------------|----|
| | | | | | |

| Торіс | What We Heard | Responses |
|-------------------|---|---|
| Station Design | Interest in station designs that reflect the neighbourhood character. | In addition to the featured canopy design, each station and p neighbourhood context and character. |
| Washrooms | Desire for accessible washrooms at stations. | The station designs follow TransLink's guidelines for washro all stations, and are accessible with the assistance of a SkyTr In addition, TransLink is exploring open washrooms at Baker future of open washrooms at both stations are at the discreti |
| Parking | Desire for park and ride facilities around stations. | Park and Ride facilities are not part of the project, as one of tand greenhouse gases. TransLink will update local bus conneasier for people to access the new SkyTrain extension. Municipalities may identify parking opportunities around the on-and off-street parking. For example, the City of Surrey is planning to provide 300 neof a SkyTrain station, including near Green Timbers, 152 Street |
| Safety | Interest in Transit Police pres- ence and dedicated parking stalls for police at stations. Concern about the security of bike parkades. | Reserved parking for Transit Police will be available at each public will be located at Langley City Centre Station. In addit at 152 Street, Bakerview-166 Street, Hillcrest-184 Street, and Every station will have an enclosed bike parkade. The design TransLink guidelines, including restricted access to registere monitoring. |

The Station Design Public Engagement Summary Report (June 2024) is available online.

plaza will incorporate design variations to reflect

oms. Washrooms are located in the Fare Paid Zone at rain attendant.

rview-166 Street and Langley City Centre stations. The ion of TransLink.

the project goals is to reduce vehicle use, congestion, nections in advance of the SkyTrain opening to make it

station areas, including

ew Park and Ride spaces within a 5 to 7-minute walk et, Fleetwood and Bakerview-166 Street stations.

station, and a Transit Police hub accessible to the tion, there will be Transit Police administrative offices Willowbrook Stations.

In and operation of the bike parkades will follow ed bike parkade users, 24/7 secure access, and CCTV

What We Heard



Example of tactile wayfinding tile in contrasting colour, leading to key destination



Escalator and stairs fitted to enhance safety and passenger flow



Island platforms for safe cyclist routes and pedestrian bus stops.

| Торіс | What We Heard | Responses |
|--------------------------------------|--|---|
| Accessibility | Provide a suitable alternative in case of an escalator or elevator outage. | Elevators and stairs can be used in the event of an escalate may be directed by a SkyTrain attendant to ride to the next other platform. |
| | | At 152 Street Station, a second elevator is available at the sevent of an elevator outage. |
| | | At Green Timbers and Fleetwood stations, the design allov the ground and mezzanine levels, if needed in the future. |
| | Ensure stations exceed basic accessibility building code requirements and best practices for inclusive design. | Station design will meet or exceed TransLink accessibility s and washroom accessibility. For example, a greater numbe concourse and platform levels than are found in older stati introduced at a few locations for improvement in inclusive |
| Active Transportation | Ensure a safe design for bike paths in front of stations and bus stops to avoid conflicts between cyclists and passengers. | Bike paths adjacent to bus stops will follow the BC Active T for bus stops. An island platform separates bike paths from bu queue for the bus. |
| Sustainability and Environment | Use native planting and trees to provide natural shading. | Plantings and trees are selected for resilience and maintain and visual interest throughout the year. Native, drought-tole climate resilient species. A high-efficiency drip irrigation sy |
| | Incorporate measures to prevent bird strikes. | Bird-safe patterns will be applied to glass in proximity to bi |

The Station Design Public Engagement Summary Report (June 2024) is available online.

tor outage. In case of an elevator outage, passengers t station and back again to access the elevator on the

station entrance on 152 Street, which can be used in the

ws for the installation of a secondary elevator between

standards in areas such as wayfinding, tactile warning, er of directional indicators will be in place at the ions. Gender-neutral washrooms are also being design.

Fransportation Design Guide, using an island platform

is stops and provides space for bus passengers to

nability. Plant selections will provide natural shading lerant species are prioritized and interplanted with other ystem minimizes water consumption.

rd habitat areas for Green Timbers Station.

Systemwide Design Brief

Design Rationale

Station Materiality (Exterior and Interior)







Heavy timber







Spider clip & laminated glazing

B





Slip-resistant field porcelain tile

Perforated metal Wayfinding tile ceiling panel

Precedents



Burguitlam Station



Coquitlam Central Station



Moody Centre Station





Glazed porcelain wall tile

Systemwide Design Enhancements

Colour adds visual interest and supports wayfinding

Each station will feature coloured glass near elevators and along the platform waiting area. The coloured glass is waist height and visible from both the train and platform to enhance the passenger arrival experience. The colour is embedded in the glass, ensuring it remains vibrant over time.

*configuration of coloured glass is subject to adjustment



Exterior panels enhance public realm

Each station will feature unique, durable, and fire-resistant concrete panels. Panels can be customized with different sizes, layouts, shades, and textures to provide a distinct look.

The panels also have anti-graffiti properties, ensuring long-lasting quality with minimal maintenance. Panels add visual appeal for pedestrians, cyclists, and transit users, and enhance the surrounding experience without compromising safety or durability.

Shade and texture

Different shades of concrete, highlighted with textured panels create visual interest.





Panel configurations

Creative layout of panels brings an extra layer of playfulness to the overall look of the station, even in the back of the house and service parking areas.



Panel sizes

Standard and large format panels reduce long-term maintenance costs and provide consistency across the SkyTrain system.





The stations are part of a cohesive design family, with distinct features to make each one unique. Design elements are carefully crafted to support a positive passenger experience, and welcoming, memorable environment. Together, these elements contribute to an enhanced urban experience, creating a sense of place for both passengers and the surrounding community:



Systemwide Design Enhancements

The use of colour will enhance the unique character of each station. Proposed colours are inspired by the local landscape, history and surroundings. Final colour selections will consider the following:

- First Nations input, values, and connections
- Accessibility needs
- Station art
- Community feedback
- Wayfinding signage

| | | Station | Serpentine River Valley, an are important agricultural area. G honey found in the area. The | |
|--------------------------|--|--------------------------------|--|--|
| Station | Design Inspiration | | foliage found near the station | |
| Green Timbers Station | Situated in an urban forest, Green Timbers Station is a natural candidate for green accents. This will also help soften the visual impact of the station on its surroundings. | Clayton Station | Clayton Station is in a residen North Creek Duck Pond. The s referencing the blue/green fe blue/green waters of the pon | |
| 152 Street Station | Inspired by the pink and purple hues of cherry blossom trees at the station site, the proposed accent colour for 152 Street Station is purple. | Willowbrook Station | Inspired by the willow tree an family, human connection an be moss green. | |
| Fleetwood Station | Red is proposed as the accent colour for Fleetwood Station. It recognizes the neighbourhood's namesake Lance Corporal Thomas Fleetwood who, alongside thousands of Canadians, fought in WWI. The red reflects the poppy, a symbol of courage and remembrance. | Langley City Centre Station | The BC Electric Railway stop a from the future station site. In with barns and brick storefrom Centre's accent colour. | |

Design Inspiration

.

Station

Bakerview-166 Street Station

Hillcrest-184 Street

Passengers will enjoy sweeping views of Mount Baker from Bakerview-166 Street Station, as well as views of the North Shore coastal mountains. This station's accent colour will be blue, reflecting the snow and ice vistas.

> located at the crest of the hill overlooking the ea of significance to First Nations, as well as an Golden accent colours allude to crops and golden colour also references the autumn n.

> ntial area surrounded by parks, including station will feature blue/green accent colours, eathers of waterfowl in the area, as well as the ad and other nearby creeks.

nd neighbourhood vegetation representing d growth, Willowbrook Station's accent colour will

at Langley Prairie was located one block southeast nages of the brightly-coloured trains, along nts in the area inspired barn red for Langley City

Distinct paving patterns at key station plaza locations enhance station identity and contribute to place-making, with variations in pattern and colour reflecting the station's architecture, function and context. Consistent decorative paving treatments at main entrances and circulation areas provide clear wayfinding across the system.

System-wide paving treatments

Station specific paving treatment

*Specific patterns may be adjusted in detailed design





Directional accent pavement at main entrances



Industrial Avenue wave pattern at Langley City Centre Station



The planting design emphasizes resilience, sustainability and cohesiveness. Landscaping will create seasonal interest and enhance the character of each station. Both ornamental and native species will be considered for their drought tolerance, hardiness, and adaptability to local conditions. Final planting selections will also consider First Nations input.

Trees



Pacific Madrone Arbutus menziesii



Bird Cherry Prunus padus



Ponderosa Pine Pinus-ponderosa



Quaking Aspen Populus tremuloides



Saskatoon Serviceberry Amelanchier alnifolia



Pacific Dogwood



Douglas Fir Pseudot iga-menziesi



Mountain Hemlock Tsuga-mertensiana

Langley City Center Station – Station Design Submission #2



Paper Birch Betula-papyrifera



Pacific Crabapple Malus-fusca



Western Hemlock Tsuga-heterophylla



Vine Maple Acer circinatum



Western Red Cedar Thuia-Plicata



Pinus-mo





Betula occidentalis

Shrubs





Deer Fern

Daylilies Hemerocallis Stella 'd'oro





Fountain Grass Pennisetum setaceun



Lily Turf Liriope muscar



Rhododendron Rhododendron sp

Fragrant Sweet Box

arcococca confusa

Littleleaf Boxwood Buxus microphylla



Winter Daphne Daphne odora























Evergreen Huckleberry



Privet Honeysuckle



Otto Luyken Laurel Prunus laurocerasus 'Otto Luvken



Flowering Hydrangea Hydrangea macrophylla



Japanese Holly llex crenata



Redflower Currant Ribes Sanguineum

Systemwide Design Brief

Design Rationale Site Furnishing Concept

Project Requirements:





Proposed Design:

- Standardized line-wide design with same dimensions and components
- Low 300mm H wall (CPTED)
- CIP Concrete Wall or Precast Modular Wall TBC
- Directional 150mm & 450mm TH walls
- Bench at seat Height 450mm •
- Off-the-shelf bench top from same line-wide collection
- Integrated LED Lighting opportunities

Site Furnishings

Bike Racks Corridor-wide Landscape Forms - Ring







Benches Types

Stand Alone Bench

Corridor Wide Landscape Forms - Generation 50 NO back rest 3 intermediate armrests







Benches Corridor-wide Landscape Forms – Generation 50 Collection (or similar)





Wall Top Bench Corridor Wide Landscape Forms – Generation 50 back rest 3 intermediate armrests





Station Site & Context

Urban Context & Development











2 South West



3 South East



Station Site & Context

Urban Context & Development



North elevation streetscape





City of Langley Official Community Plan 2021

Rendering does not reflect future transit-oriented development

Station Site & Context

Urban Context & Development

This is the terminus station located at the heart of City of Langley, the surrounding land use is designated as transit-oriented Core by the OCP, permitting the highest densities of mixed-use residential commercial development. A new Park/Open Space is indicated for the lands immediately south of the station which may be developed to include outdoor recreation spaces and small-scale institutional use. The station site is currently undeveloped, and the surroundings are characterized by low-density light industrial and commercial uses.

The public realm design will respond to the function of the station as both the terminus of the SLS system and an integrated transit hub. Generous Circulation Zones around the perimeter will support bus transit interchange as well as facilitating connection to the municipal pedestrian network and future adjoining developments. Decision zones are clearly delineated as a systemwide surface paving treatment to connect the station entrances with Circulation Zones. Destination zones are located strategically at the station entrances and to the south, offering a variety of flex and opportunity uses for CRU, for the public plaza interface with future developments to the south, and to support informal meeting and gathering for transit users and neighbour residents.

The station design is a unique centre-platform configuration on the SLS system, offering two double-sided through entrances at both ends of the station to support the Transit Exchange to the north and a public plaza to the south. The double entrances will be defined by signature canopy shapes that will serve as primary wayfinding signifiers, with the wood ceiling soffit continuing through the station entrance zone to visually connect all sides of the plaza interface with the heart of the station entrances. Aligned with design team's design parti to differentiate the transit specific elements, the canopy coverage for the CRU will be visually and physically separated from the station entrance canopy through a change in materiality, assembly, and shape. Langley City Centre Station





The stations are part of a cohesive design family, with distinct features to make each one unique. Design elements are carefully crafted to support a positive passenger experience, and welcoming, memorable environment. Together, these elements contribute to an enhanced urban experience, creating a sense of place for both passengers and the surrounding community:







Platform and bridge enhanced with coloured glass panel



Station specific design on exterior cladding panels



Plaza paving pattern reflecting station location



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1:500 (11X17) - 1:250 (ANSI D)

CIVIC ADRESS - 5724 203 STREET, V3A 1W3

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| В | 2025/02/10 | | STATION DESIGN SUBMISSION #2 | | |
| Α | 2024/05/17 | | INITIATING DESIGN SUBMISSION #1 | | |
| I/R | DATE | BY | DESCRIPTION | APPR | |









CLEAN AGENT FIRE SUPPRESSION SYSTEM

| FIRE HYDRANT | |
|--|--------------|
| SPRINKLER/STANDPIPE CONNECTION | \checkmark |
| STANDPIPE HOSE CONNECTION | • |
| FIREFIGHTER COMMAND POST | FCP |
| ENTRANCE / EXIT | |
| FIRE DEPARTMENT VEHICLE ACCESS PATH | |
| SCALE: | |

2.5 m () 1:250

12.5 m

DRAWING INFORMATION DRAWN BY APPROVED BY

PROJECT NUMBER LANGLEY CITY CENTRE STATION SHEET TITLE FIRE ACCESS PLAN

DRAWING NUMBER SLS-203-A-100-DAP

Accessibility & Connectivity Plan

Langley City Centre **Station features:**

- Designated accessible pathways at the station and within the plaza
- Improved accessible wayfinding, including tactile and contrasting colour tiles
- Washroom available within the Fare Paid Zone. TransLink is exploring an open washroom at this location
- Secure enclosed bike parkade
- Transit Police Hub office, open and accessible to the public





Example of tactile wayfinding tile in contrasting colour at the platform

















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| | LANGLEY CITY CENTRE STATION | I SLS-203-A-202-DAP |









LANGLEY CITY CENTRE STATION

SLS-203-A-301-DAP



South Fraser om O *exp.

Surrey Langley

SkyTrain

APPR



STATION SPECIFIC FEATURE - GLAZING COLOU

| PROJECT NUMBER | DRAWING NUMBER |
|---------------------|-------------------------|
| LANGLEY CITY CENTRE | STATION.S-203-A-401-DAP |

EXPANSION







| LEGEN | D | |
|-----------------|--|--|
| | PAVING TYPE 1 CIP CONCRETE - DECORATIVE | |
| | PAVING TYPE 2 CIP CONCRETE - STANDARD | |
| | PAVING TYPE 3 CONCRETE UNIT PAVERS - PERMEABLE | |
| | PAVING TYPE 4 EXPOSED AGGREGATE CIP CONCRETE 600mm W BANDS | |
| | PAVING TYPE 5 CIP CONCRETE - COLOURED CHARCOAL | |
| / | PAVING TYPE 6 CIP CONCRETE - WAVE PATTERN | |
| | PLANTING BED 450mm FOR SHRUBS 900mm FOR TREES | |
| (\mathcal{D}) | DECIDUOUS TREE | |
| \odot | SMALL DECORATIVE TREE | |
| | -PERMANENT LANDS | |
| TEMPORARY LANDS | | |
| | SOAL F: | |

| KEYNOTE LEGEND |
|--|
| RAIL STATION VALIDATOR (RSV) |
| FIRE HYDRANT (FD) |
| OUTDOOR WASTE RECEPTACLE |
| BIKE RACKS |
| FUTURE SHARED MICROMOBILITY HUB |
| EXTERIOR GARBAGE ENCLOSURE |
| CONCRETE MOTI VAULT |
| BC HYDRO PAD-MOUNTED TRANSFORMER |
| CTRM VAULT WITH MANHOLE OPENING |
| TL VAULT WITH MANHOLE OPENING |
| SPACE FOR BCRTC GENERATOR |
| IRRIGATION POINT OF CONNECTION AND CONTROLLER |
| |

| LANDSCAPE & HARDSCAPE |
|-----------------------|
| PLAN |

1:250

12.5 m

| APPROVED BY | |
|----------------|---|
| PROJECT NUMBER | ł |

LANGLEY CITY CENTRE STATION

2.5 m

0

SHEET TITLE

SLS-203-L-100-DAP

Illustrative Landscape Plan





Decorative cast-in-place concrete pavement



Cast-in-place concrete pavement



Exposed aggregate concrete bands



Unit paver pavement



Decorative wave pattern

Transit Exchange





| LANGLEY | CITY | CENTRE | STATION |
|---------|------|--------|---------|
| | | | |

SLS-203-A-102-DAP

Transit Exchange



