

Monthly Status Report

Reporting Period

June 2023

SIP-TIC-PCO-RPT-00017 R0

1. Introduction

1.1 Project Overview

The Steveston Interchange Project (the Project) is a component of the Highway 99 Tunnel Program and is being delivered in advance of the new immersed tunnel project.

The Project will address many of the safety, congestion, and mobility challenges at the interchange for all modes of travel by:

- Upgrading the interchange to be consistent with modern design standards.
- Reducing vehicle queues for northbound off-ramp traffic and transit to Steveston.
- Improving mobility for east-west traffic on Steveston Highway.
- Improving transit operations at the interchange.
- Providing new cycling and pedestrian connections along Steveston Highway across Highway 99.

The Project will replace the existing two-lane overpass structure at Steveston Highway and Highway 99 with a new five-lane structure that accommodates two eastbound lanes and three westbound lanes (including a left turn lane) and new pedestrian and cyclist infrastructure, as well as improved connections to and from the overpass.

The replacement overpass is designed to integrate with the new eight-lane immersed tube tunnel replacing the existing George Massey Tunnel along Highway 99.

Additional information and updates about the Steveston Interchange Project can be found on the Highway 99 Tunnel Program website: <https://www.highway99tunnel.ca/project-overview>.

1.2 Project Delivery

Transportation Investment Corporation, a Provincial Crown Corporation, is delivering and overseeing the Project on behalf of the Ministry of Transportation and Infrastructure and the BC Transportation Financing Authority. The estimated cost of the Project including planning, construction, and financing during construction is \$87.5 million.








The Project will be delivered through a Design-Build (DB) contract model and is currently in the implementation phase. Flatiron Constructors Canada Limited, comprised of Flatiron Constructors Canada Limited and Urban Systems Ltd., was selected as the Design-Builder on April 12, 2022. Construction on the Project began in 2022 and is expected to be completed in fall 2025.

1.3 Project Goals




- Support sustainability of Fraser River communities
- Facilitate increased share of sustainable modes of transportation
- Enhance regional goods movement and commerce
- Support a healthy environment

2. Project Update

2.1 Project Dashboard

		Objectives	Project Status	Comments
Project Delivery	Scope	Project delivered within approved scope.		<ul style="list-style-type: none"> The Project will replace the existing two-lane overpass structure at Steveston Highway and Highway 99 with a new five-lane structure that accommodates two eastbound lanes and three westbound lanes (including a left turn lane) and new pedestrian and cyclist infrastructure, as well as improved connections to and from the overpass. The Project is within the approved scope.
	Schedule	Project delivered within approved schedule of interchange open in 2025.		<ul style="list-style-type: none"> The Project is on schedule for the new interchange to be operational in fall 2025.
	Budget	Project delivered within approved budget of \$87.5 million.		<ul style="list-style-type: none"> Project spending for the month of June 2023 was \$1.3 million. Total Project spending to date is \$24.8 million; the Project is forecasted to be delivered within budget.
	Safety	Ensure that Project work is preformed safely, in compliance with all applicable safety regulations, and in accordance with government policy.		<ul style="list-style-type: none"> Monitored the implementation of the health and safety program and performed site visits. There have been zero lost time injuries on the Project to date. Lost Time Injury Frequency Rate (LTIFR) for the Project is zero, which is less than the WorkSafeBC 2021 rate of 1.2 for Bridge, Overpass, or Viaduct Construction or Repair.
	Quality	Implement an effective Quality Management System.		<ul style="list-style-type: none"> Continued review of quality documentation, including Inspection and Test Plans and correlated check-sheets. Continued monitoring of Design-Builder's Quality Records, Nonconformity Reports/Log, and Opportunity for Improvement Log.
	Environmental	Ensure Project work is performed in an environmentally responsible manner.		<ul style="list-style-type: none"> Permits and authorizations are in place for the Project as listed in Section 3: Project Documents and Achievements to Date. Additional regulatory authorizations will be obtained by the Design-Builder, as required.
	Design and Construction	Development of a reference concept, technical requirements/specifications,		<ul style="list-style-type: none"> Remaining aspects of Project design are being finalized by the Design-Builder.

		Objectives	Project Status	Comments
		and related technical studies for the Project and manage activities on-site.		<ul style="list-style-type: none"> Continued weekly Technical Working Group and Construction Working Group meetings with the Design-Builder. Major earthworks and structural foundation work is underway, including pile driving in the northwest quadrant.
	Community Benefits	Successfully implement the Special Project Needs Agreement (SPNA).	●	<ul style="list-style-type: none"> The Design-Builder and its sub-contractors are required to carry out the Project in accordance with the SPNA. Apprenticeship, trainee, and equity employment targets are included in the Design-Build Agreement (DBA) with incentive payments for exceeding the targets. The Design-Builder's Community Benefits Plan is in place and quarterly reporting is provided.
Partners/Stakeholders	Indigenous Groups	Continue to build and maintain positive collaborative working relationships with the Identified Indigenous Groups (IIGs).	●	<ul style="list-style-type: none"> Continued to consult and engage with Identified Indigenous Groups (IIGs) on permitting, environmental plans, economic development opportunities, cultural awareness and recognition, and construction monitoring. Continued engagement with IIGs to achieve targets for Indigenous contracting opportunities.
	Third Parties	Continue to build and maintain positive relationships and reach agreement on Project requirements with City of Richmond and owners of interfacing infrastructure.	●	<ul style="list-style-type: none"> Continued bi-weekly meetings with the City of Richmond on Project activities. Continued bi-weekly meetings with TransLink and the Coast Mountain Bus Company.
	Public and Stakeholder Engagement	Continue to build and maintain positive relationships with the community and other stakeholders.	●	<ul style="list-style-type: none"> Continued to provide information to community organizations, businesses, and residents that are in close proximity to the Project. Distributed two public notifications regarding setup of the Project's site office and pile driving activities. Facilitated a site tour for Minister Rob Fleming and MLA Aman Singh.

Status	Description
	Managing critical issues and negotiating resolution – action required immediately.
	Managing some issues and negotiating resolution – action required in the near term.
	Stay the course – no action required.

3. Project Documents and Achievements to Date

Project Delivery	Project Planning and Development	<ul style="list-style-type: none"> • GMC Business Case (April 2021) • Cost Report (April 2021) • GMC Relationship Review Process Description (April 2021) • Request for Qualifications Issued (June 2021) and Closed (August 2021) • Request for Proposals Issued (September 2021) • Project Management Plan (October 2021) • Executed Design-Build Agreement (April 2022)
	Environmental	<ul style="list-style-type: none"> • Agricultural Land Commission (ALC) Approval (October 2021) • Fisheries and Oceans Canada (DFO) – Letter of Advice (October 2021) • Heritage Conservation Act (HCA) – Inspection Permit (November 2021) • Water Sustainability Act (WSA) – Order for Change Approval of Section 11 Permit (November 2021) • Water Sustainability Act (WSA) – Short-Term Use of Water (October 2022)
	Design and Construction	<ul style="list-style-type: none"> • Reference concept design developed (August 2021)
	Community Benefits	<ul style="list-style-type: none"> • Special Project Needs Agreement (SPNA) (June 2021)
Partners/Stakeholders	Indigenous Groups	<ul style="list-style-type: none"> • Ongoing engagement and consultation.
	Third Parties	<ul style="list-style-type: none"> • BC Hydro Protocol Agreement (December 2018) • City of Richmond Municipal Agreement (August 2022)
	Public and Stakeholder Engagement	<ul style="list-style-type: none"> • Presentations to various stakeholders (2021 – ongoing)

4. Monthly Highlights and Three Month Lookahead

4.1 Safety

Scope:	<ul style="list-style-type: none">• Manage Project OH&S activities using a collaborative and proactive management approach with all principal stakeholders.• Monitor relevant OH&S performance metrics by setting measurable targets and objectives in the form of key performance leading and lagging indicators.• Ensure the Project complies with relevant Federal and Provincial Acts and Regulations and Municipal Codes and By-laws, as well as applicable best industry practice guidelines.• Outline relevant health and safety management processes and activities to ensure health and safety of workforce and public is always safeguarded.
Monthly Highlights:	<ul style="list-style-type: none">• Total number of recorded incidents and accidents documented on the health and safety log for the month was zero.• Lost Time Injury Frequency Rate (LTIFR) for Project remains at zero, which is below the WorkSafeBC average of 1.2 for Bridge, Overpass, or Viaduct Construction or Repair.• Continued site monitoring, and review of submitted Design-Builder's documents and statistics.• Established an audit program for 2023 for review of the Design-Builder's safety performance.• Reviewed the Design-Builder's Job Hazard Analysis on site office laydown, drainage structures, and pile driving works.• Formalized an Audit Plan for traffic management.• Formalized an Audit Plan for site access and visitor management.
Three-Month Lookahead:	<ul style="list-style-type: none">• Refine the health and safety audit schedule to address ongoing Project work according to the Design-Build Agreement.

4.2 Quality

Scope:	<ul style="list-style-type: none">• Monitor the Design-Builder's Project Quality Management System performance.• Monitor the Design-Builder's site activities, including inspections and testing.• Monitor the Design-Builder's internal and external audits, including audit reports.• Conduct Quality Management System and Site Surveillance Audits of the Project work.• Monitor the Design-Builder's Non-Conformity Tracking System, Non-Conformity Reports, and Opportunity for Improvement Log.
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	<ul style="list-style-type: none"> Review the Design-Builder’s quality documentation, including Inspection and Test Plans and correlated check-sheets. Monitor the Design-Builder’s Quality Control and Quality Assurance activities.
Monthly Highlights:	<ul style="list-style-type: none"> Reviewed the Design-Builder's quality documentation (Inspection and Testing Plans, including checklists) and correlated items in Work Methods for upcoming work. Revised the Quality Management System Audit Schedule to reflect the Design-Builder’s current Quality Management System status and planned site activities. Conducted a Site Surveillance Audit relating to Stone Column installation.
Three-Month Lookahead:	<ul style="list-style-type: none"> Continue review of the Design-Builder’s updated quality documentation (i.e., Inspection and Testing Plans and checklists) for upcoming work. Implement the Province’s Quality Management System Audit Schedule. Monitor and conduct surveillance of the Design-Builder’s site activities, including inspections and testing. Conduct Site Surveillance Audits of the Project work based on the Design-Builder’s schedule. Conduct Quality Management System Audits on the Design-Builder. Monitor the Design-Builder’s internal and external audits including audit reports. Monitor the Design-Builder’s Non-Conformity Tracking System. Identify and implement continuous improvement initiatives. Monitor the Design-Builder’s Opportunity for Improvement Log.

4.3 Environmental

Scope:	<ul style="list-style-type: none"> Manage follow-up and compliance actions required under relevant environmental regulations and permits. Liaise with regulators and stakeholders on matters related to the Project commitments made through the environmental and public engagement processes. Manage outstanding environmental permits and associated environmental studies, monitoring, and compliance processes.
Monthly Highlights:	<ul style="list-style-type: none"> Submitted Water Sustainability Act Section 11 change approval amendment to accommodate final drainage and related designs. Reviewed the Design-Builder’s monthly and weekly Environmental reports. Prepared responses to Identified Indigenous Groups’ (IIGs) comments on Planting Plan and plant/seed selections. Reviewed surface water quality monitoring data from the Design-Builder and the Independent Environmental Monitor. Continued to monitor and review Recycled Concrete Aggregate Material mitigation effectiveness.

	<ul style="list-style-type: none"> Supported IIGs reviews on Design-Builder Planting Plan and plant/seed selections.
Three-Month Lookahead:	<ul style="list-style-type: none"> Schedule archaeological chance find training for the Design-Builder’s workers. Continue to support Indigenous Groups’ reviews and address comments on Planting Plan and plant/seed selections. Prepare City of Richmond Watercourse Crossing Permit applications. Review the Design-Builder’s Environmental Work Plans. Continue to monitor water quality of Recycled Concrete Aggregate Material runoff.

4.4 Design and Construction

Scope:	<ul style="list-style-type: none"> Provide technical advice to the Project Team on a broad range of Project issues, and inputs into the Design-Build Agreement (DBA). Oversee compliance with the design and construction requirements of the DBA, including undertaking reviews and audits, on-site monitoring, and other engagement with the Design-Builder, as needed.
Monthly Highlights:	<ul style="list-style-type: none"> Participated in weekly Technical Working Group and Construction Working Group meetings with the Design-Builder to progress design and construction items. Reviewed the Design-Builder’s updated design submittals including: <ul style="list-style-type: none"> Final Design Package 3 (Civil & Structural) Final Design Package 4 (Electrical) Temporary Retaining Wall Reviewed the Design-Builder’s updated construction Work Method Statements and associated Traffic Control Plans for: <ul style="list-style-type: none"> Drainage Structures Piling Monitored the Design-Builder’s on-site construction activities: <ul style="list-style-type: none"> Placement of fill and preload material along new northbound off-ramp alignment Setup new site laydown and offices Stone column installation and associated quality testing Settlement and vibration monitoring and surveying Delivery of abutment pile materials Topsoil stripping along southbound off-ramp
Three-Month Lookahead:	<ul style="list-style-type: none"> Review the Design-Builder’s submittals including the Intelligent Traffic System Implementation Plan and the Final Design packages. Monitor the Design-Builder’s on-site construction activities: <ul style="list-style-type: none"> Installation of stone columns and ground improvement Installation of Phase 2 Temporary Walls

	<ul style="list-style-type: none"> ○ Pile driving for bridge foundation ○ Pile rebar cage installation and concrete pour ○ Drainage excavation along Steveston ○ Placement of fill and preload materials along new ramp alignments ○ Remaining third party utility relocations and connections ○ Removal of preload from bridge embankments and Steveston Highway to Highway 99 on-ramp
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4.5 Indigenous Groups

Scope:	<ul style="list-style-type: none"> ● Consultation and engagement with the Identified Indigenous Groups (IIGs) on the design, Project logistics, permitting, environmental plans, economic development opportunities, cultural awareness and recognition, and construction monitoring.
Monthly Highlights:	<ul style="list-style-type: none"> ● Continued engagement on environmental plans and permitting. ● Updated the Cultural Recognition Plan to reflect expected timelines, opportunities, and responsibilities. ● Ongoing discussions with IIGs to support Project activities, including cultural awareness and recognition, mentorship opportunities for Indigenous youth, site visits, and construction and archaeological monitoring opportunities. ● Ongoing meetings between the Design-Builder and the IIGs. ● Continued procurement discussions between the Design-Builder and the IIGs.
Three-Month Lookahead:	<ul style="list-style-type: none"> ● Coordinate additional site visits with interested IIGs. ● Continue ongoing meetings between TI Corp and IIGs to develop a scope for Indigenous Cultural Awareness and Recognition opportunities, which will inform the implementation of the Indigenous Cultural Awareness and Recognition Plan. ● Continue engagement on environmental plans and permitting, landscaping and planting, and construction monitoring opportunities. ● Facilitate further discussions between the Design-Builder and IIGs, as needed. ● Discuss and develop job shadowing and mentorship opportunities for Indigenous youth.

4.6 Third Parties

Scope:	<ul style="list-style-type: none"> ● Project-specific Municipal Agreement (MA) with the City of Richmond (the City). ● Engagement with the City and TransLink on construction impacts, stakeholder concerns, and other inputs to the Project.
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Monthly Highlights:	<ul style="list-style-type: none"> • City of Richmond: <ul style="list-style-type: none"> ○ Ongoing bi-weekly meetings between the Project Team, the Design-Builder, and City of Richmond staff. ○ Completed engagement on Final Design Package 3 (Civil & Structural). • TransLink and Coast Mountain Bus Company (CMBC): <ul style="list-style-type: none"> ○ Ongoing bi-weekly meetings between the Project Team, the Design-Builder, TransLink, and CMBC. ○ Completed engagement on Final Design Package 3 (Civil & Structural), mutual agreement reached resolution for the Project’s bus stop designs. • Utilities: <ul style="list-style-type: none"> ○ Coordinated regular meetings with impacted utility companies regarding utility relocation designs and construction logistics.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Complete reviews of the Design-Builder submittals and design packages by the City of Richmond and TransLink. • Continue to support the Design-Builder in obtaining relevant permits for upcoming work including Watercourse Crossing Permits. • Monitor Phase 2 utility relocation works (Telus and Shaw) on Steveston Highway.

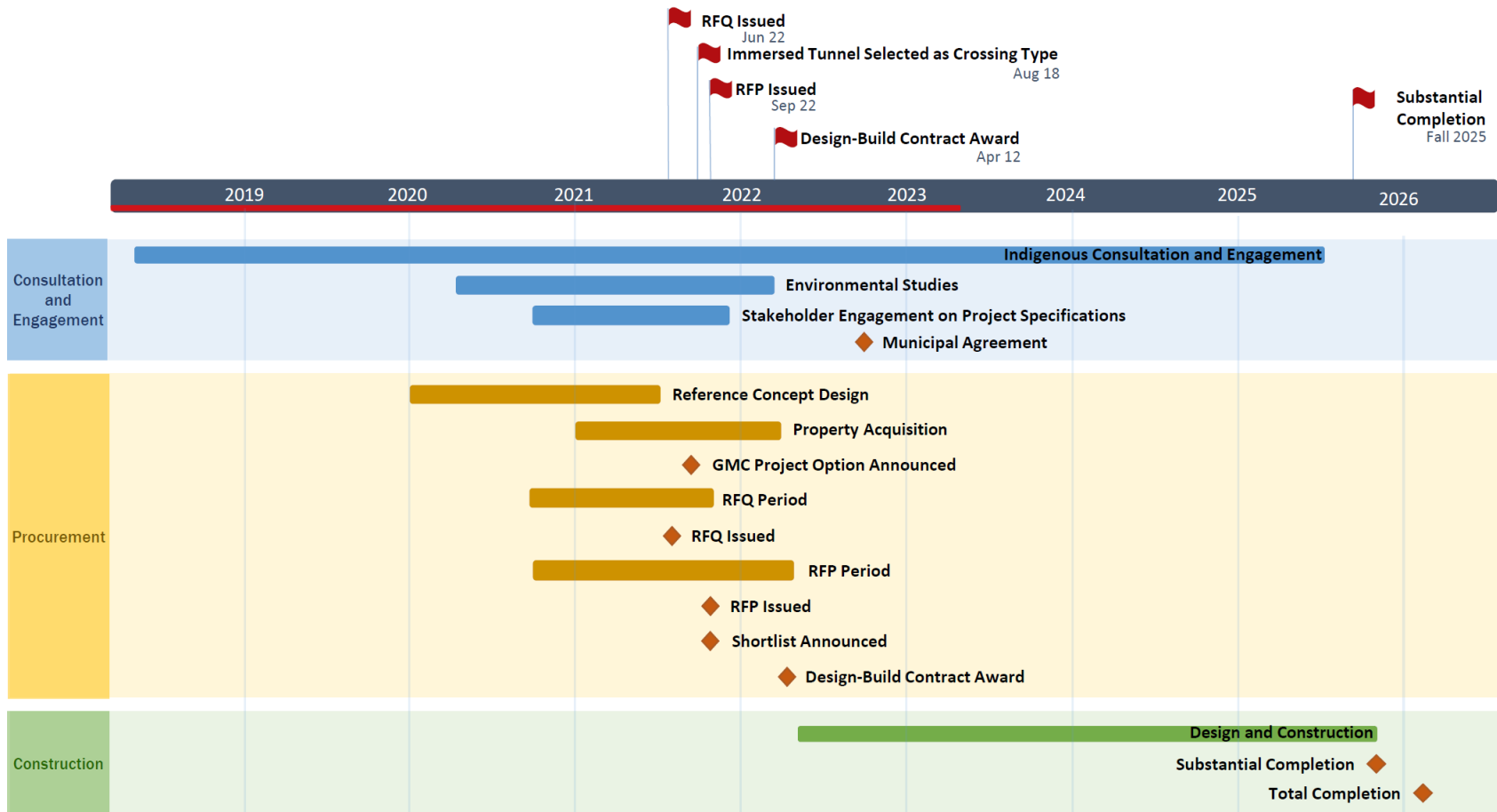
4.7 Public and Stakeholder Engagement

Scope:	<ul style="list-style-type: none"> • Overseeing and managing ongoing communications and engagement with the public and stakeholders. • Development and implementation of communication strategies. • Creation of compelling content and messaging, and the cultivation of relationships with key stakeholders.
Monthly Highlights:	<ul style="list-style-type: none"> • Conducted weekly meetings with the Design-Builder to assess potential public impacts and review proposed communication approaches. • Circulated two construction notifications for setup of the Project’s site office and pile driving activities. • Prepared a construction notification related to an upcoming Highway 99 closure. • Distributed a Project update postcard through Canada Post. • Hosted a site tour for Minister Rob Fleming and MLA Aman Singh.
Three-Month Lookahead:	<ul style="list-style-type: none"> • Place Project update display boards in the Highway 99 Tunnel Program Community Office. • Create renderings to be used for public communications. • Prepare construction notices related to traffic impacts on Steveston Highway.

- Plan and facilitate two stakeholder meetings: Traffic Advisory Committee and Western Quadrant.

5. Schedule

The following schedule depicts deliverables, milestones and associated dates and timelines for the implementation phase of the Project, as well as anticipated construction timelines.



6. Project Photos

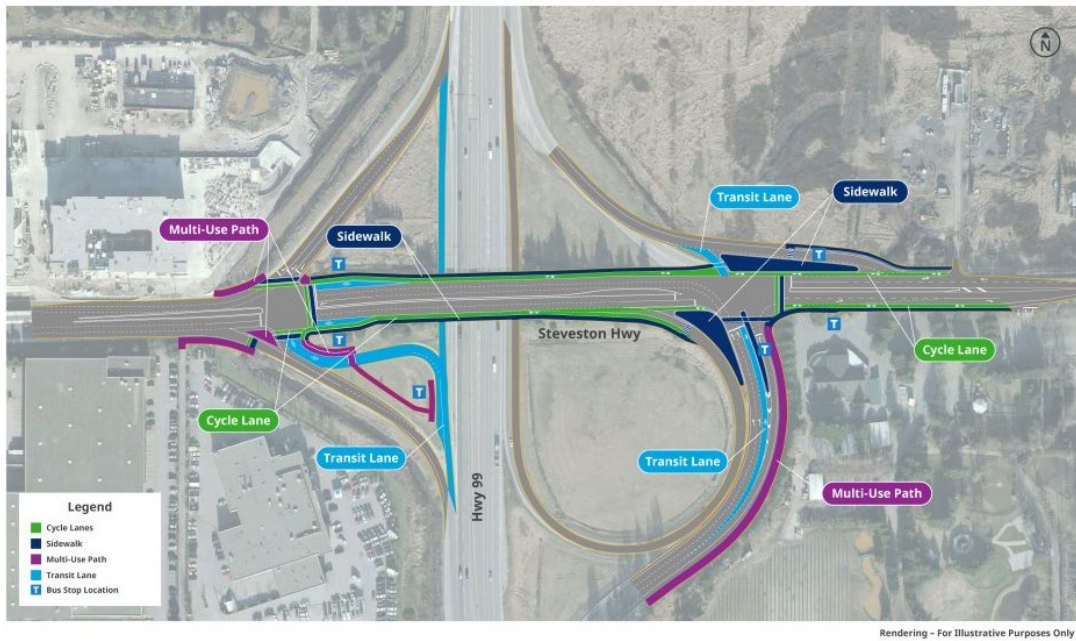


FIGURE 1 – DESIGN RENDERING



FIGURE 2 – PILE CAISSON INSTALLATION IN THE NORTHWEST QUADRANT (STAGE 1)



FIGURE 3 – PILE DRIVING IN THE NORTHWEST QUADRANT (STAGE 1)