

CORPORATE REPORT

NO: **R188**

COUNCIL DATE: **December 21, 2020**

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **December 10, 2020**

FROM: **General Manager, Engineering** FILE: **6020-001**
General Manager, Planning & Development XC: **5225-23**
General Manager, Parks, Recreation & Culture

SUBJECT: **Surrey Coastal Flood Adaptation Strategy and Disaster Mitigation Adaptation Fund 2020 Year End Update**

RECOMMENDATION

The Engineering Department, the Planning & Development Department and the Parks, Recreation & Culture Department recommend that Council:

1. Receive this report for information; and
2. Authorize the Mayor and City Clerk to execute a Memorandum of Understanding with the Government of British Columbia and the City of Delta to support the construction of Foreshore Enhancements in Mud Bay under the City's Disaster Mitigation and Adaptation Fund Program.

INTENT

The purpose of this report is to provide a year-end update to Council on the City's Disaster Mitigation and Adaptation Fund ("DMAF") Program, and to seek authorization to proceed with necessary steps to execute a Memorandum of Understanding ("MOU") to facilitate construction of one of the 13 assets required to be delivered as part of the DMAF Program.

BACKGROUND

Global sea level rise and extreme weather are impacting Surrey's coast. To help Surrey's coastal communities become more resilient in a changing climate, the City followed a comprehensive process to develop the Surrey Coastal Flood Adaptation Strategy ("CFAS"). This multi-year undertaking identified the current and anticipated future impacts of climate change on Surrey's large coastal floodplain area and developed a broadly supported, long-term strategy to reduce climate change driven coastal flooding risks. CFAS blended a values-based, participatory planning approach with robust technical analyses to develop 46 strategic Actions for Surrey's coastal communities (Mud Bay, Crescent Beach, Semiahmoo Bay).

During the final phases of CFAS, the City was able to leverage the collaborative work underway through CFAS to assemble a comprehensive funding application to Infrastructure Canada for DMAF. The City was successful in its application and received a Federal funding commitment for \$76.6 million (the "Contribution Agreement") to implement large-scale infrastructure and innovative nature-based solutions to address pressing concerns, while also preparing for future impacts associated with a changing climate. The City's DMAF Program directly addresses several CFAS Actions and advances CFAS planning to action on the ground and involves several partner organizations.

DISCUSSION

With the completion of the CFAS process, the focus has shifted on implementation of the DMAF Program, which significantly advances eight CFAS Actions prioritized for completion between 2020 and 2030. Based on the current Provincial Sea Level Rise Curve, a total of 32 CFAS Actions are proposed to commence in this decade. The timelines for each action will need to be adjusted as new information becomes available, such as when the Provincial Sea Level Rise Curve is updated, local observations of sea level rise, storm intensity and frequency and occurrence of extreme events.

To effectively address coastal flooding in Surrey, the delivery of the comprehensive set of CFAS Actions involves close collaboration and involvement of numerous City departments and divisions.

CFAS Awards and Recognition

CFAS continues to contribute to Surrey's recognition as a leader in climate resilience. In 2020, CFAS earned the following awards:

- 2020 Award for Planning Excellence (Merit) in the Climate Change category from Canadian Institute of Planners; and
- 2020 CAMA Environment Award in the Over 100,000 Population category from Canadian Association of Municipal Administrators.

In addition, one of the DMAF Program projects, the Nicomekl Riverfront Park, received the 2020 Award for Excellence in Planning in the City and Urban Areas from Planning Institute of BC.

CFAS continues to be featured in industry events and academia through guest presentations made by City staff and featured in various case studies and other publications. The awards and recognition continue to position Surrey as a leader in municipal Climate Action and may support the City in securing future grant funding.

CFAS Implementation

The City continues to advance the CFAS Actions part of the Ongoing Education, Communications and Advocacy Initiatives. The CFAS process incorporated significant engagement efforts to ensure that the perspectives and concerns of a wide range of sectors, stakeholders and partners impacted by coastal flooding throughout Surrey were integrated in the CFAS Strategy Document.

CFAS Advisory Group is a volunteer group of representatives from key partner and stakeholder organizations and agencies. The group met several times over the course of the CFAS process, was an integral part of the decision-making process and was able to provide valuable support for project implementation. On July 30, 2020, the Advisory Group met for the first time since CFAS completion. The meeting was conducted in a virtual setting for COVID-19 safety. All Advisory Group members who responded to a follow-up survey indicated that they wanted to continue to be involved with future CFAS-related updates as well as individual DMAF Program initiatives. CFAS Advisory Group meetings will continue to be held approximately once per year, periodically assessing sustained interest from participating members.

This year, the Planning & Development Department initiated a process to advance several CFAS Actions outlined in the recommendations adopted in Corporate Report No. R060; 2020 (attached as Appendix "II"). Consultation is currently underway with the Crescent Beach Property Owner's Association regarding establishing a Comprehensive Development Zone specific for the Crescent Beach Community.

The Engineering Department is advancing the CFAS Action to improve flood warning systems and communications through plans to deploy surveillance and coastal monitoring instrumentation in several locations in and along the shoreline of Boundary Bay in 2021, as well as supporting the development of a shared online resource at <http://www.stormsurgebc.ca> in collaboration with several other organizations. This work will support the CFAS adaptive management cycle of Plan-Do-Learn.

The Engineering Department and the Parks, Recreation & Culture Department continue to advance several CFAS Actions through the DMAF Program. There has been significant internal coordination between various City departments, as well as external engagement with key stakeholders, partners, government agencies and the public. Meaningful engagement and clear communications continue to play a key role in Surrey's coastal flood adaptation journey and are supported by a range of communication tools.

Information on the DMAF Program coastal flood adaptation initiatives is regularly updated and hosted at www.surrey.ca/CoastalTakingAction. The City's social media channels are used to raise the awareness of coastal flooding and related challenges, and the individual DMAF initiatives that are addressing these challenges using the project hashtag #SurreyCoastal. The ongoing DMAF Program communications help advance the six CFAS Actions set out under the Ongoing Education, Communications, and Advocacy Initiatives.

DMAF Program Status

Construction of thirteen assets that form the DMAF Program advance a number of the CFAS Area Specific Actions. The City and the partner organizations have made considerable progress since the Contribution Agreement for DMAF was executed last year. During this time, several measures and controls have been established to ensure compliance with the Contribution Agreement. The status of each asset in the DMAF Program are depicted in Appendix "I". Given the complexity of many of the assets, Table 1 identifies several assets to a more granular level than set out in the Contribution Agreement. The overall timeline for the DMAF Program is highly ambitious and significant effort has transpired to break ground on five of the 13 assets over the past year.

Staff is in frequent contact with staff at Infrastructure Canada about the project status and are working together to ensure the project remains on track to complete by March 31, 2028 as set out in the Contribution Agreement. The Contribution Agreement sets out the types of expenditures defined to be eligible for federal reimbursement (the "Eligible Expenditures"). Construction activity will need to increase significantly in the coming years to achieve this deadline. The City's DMAF Program is estimated at \$187 million in Eligible Expenditures. Based on actual eligible expenditures incurred up to October 31, 2020, the Program is 3% complete and is projected to reach 5% at year end.

Table 1: Updated Project Status

Assets	Design Status	Property\ Permits	Construction Stage	Eligible Expenditures Incurred to Oct. 31, 2020
1. Colebrook Dyke • Series 100 • Series 200 • Series 300	10% 100% 90%	To commence Secured Pending	2023 2021 Q1 2021 Q3	\$0 \$0.1M \$0.1M
2. Colebrook Pump Station	70%	To commence	2023	\$0
3. Sea Dam Serpentine River	30%	To commence	2025-2027	\$0.1M
4. 152 Street Road and Raising	30%	To commence	2022 Q2	\$0.2M
5. Nicomekl Riverfront Park • Haden Mill & Oxbow Zone • Other Park Zones	0% - Starting 2021 Q1 0%	To commence To commence	2023 2025	\$0.1M \$0
6. King George Boulevard Bridge and Nicomekl River Sea Dam	20%	To commence	2021 Q4	\$0.1M
7. Crescent Beach Storm Sewer • Phase 3 (Sullivan St and area) • Phase 4 (South of Sullivan St)	50% 0%	Pending To commence	2021-2023 2024	\$0.1M \$0
8. Dyking Lower Reaches of Nicomekl and Serpentine	20%	To commence	2023	\$0.1M
9. Serpentine SRY Rail Link Bridge and Surrey Dyking Crossing	100%	Complete	Complete	\$2.8M
10. Burrows Drainage Pump Station	100%	Complete	Ongoing/Active	\$1.8M
11. Stewart Farm Sanitary Pump Station	100%	Complete	Ongoing/Active	\$0.1M
12. Campbell River Pedestrian and Emergency Access Bridge	10% - by SFN	By SFN	TBD by SFN	\$0.1M
13. Foreshore Enhancements and Dyke in Delta • Boundary Bay Dyke • Foreshore enhancements	Varies by segment 100% 5%	Secured Pending	2020-2021 2021 Q4	\$0.4M \$0.1M
Program Level Contracts (reporting, environmental assessment, technical modelling, communications and engagement)	n/a	n/a	n/a	\$0.5M
Total Eligible Expenditures Incurred to October 31, 2020				\$5M
Total Eligible Expenditures to be incurred by March 31, 2028				\$187M

BC Environmental Assessment Certificate Exemption Process

Initially, four of the 13 projects forming the DMAF Program were deemed to require permitting per then current BC *Environmental Assessment Act* [SBC 2002, c. 43] ("BCEAA") prior to project construction. The scope of work related to this involves providing comprehensive environmental assessment services for major projects administered by the City, which require consultation with the BC Environmental Assessment Office ("BCEAO") as part of the DMAF Program. Through analysis and discussion with the BCEAO, it was established that one of the four assets (13. Foreshore Enhancements) is subject the BCEAA.

An overview of the full Environmental Assessment process is included in Figure 1. A baseline environmental study to support the Initial Project Description ("IPD") is nearing completion. The IPD will be submitted to the BCEAO once the MBCCAP design is refined, followed by a 90-day early engagement period.

The early engagement phase will build upon the extensive and successful consultation undertaken as part of CFAS to obtain public input on key issues and seek consensus with participating Indigenous nations. The red star in Figure 1 indicates the stage in the process at which either an Exemption Order is obtained, or the full Environmental Assessment commences for the 13. Foreshore Enhancements project.



Figure 1. BC Environmental Assessment process (Image source: BCEAO website)

DMAF Federal Reporting Requirements

Climate Lens Assessment

The Climate Lens is a requirement applicable to several Infrastructure Canada's funding streams, including DMAF. The Climate Lens generally consists of two components: the Greenhouse Gas ("GHG") Mitigation Assessment, which measures the anticipated GHG emissions impact of a project, and the Climate Change Resilience Assessment, which employs a risk management approach to anticipate, prevent, withstand, respond to, and recover from a climate change related disruption or impact.

The Climate Lens assessment for the City's DMAF Program was completed and submitted to the Federal Government in February 2020. The assessment estimated that over the life of the projects, the construction of the 13 DMAF projects will cumulatively result in a net decrease of 187,292 tonnes of carbon dioxide equivalent (t CO₂e), compared to a baseline scenario. The GHG emissions mitigation is anticipated to result mainly from less vehicle distance travelled due to less frequent flood road detours, less direct damages to buildings and fewer transportation disruptions over the lifespan of the constructed assets.

Community Employment Benefits

Development of the City’s approach to Community Employment Benefits required under the Contribution Agreement were provided through Corporate Report No. R171; 2020 on November 23, 2020. The Community Employment Benefits achieved through the City’s DMAF Program are summarized in Table 2. Future annual reports to Council will include an additional self-reported category for lesbian, gay, bisexual, transgender, queer or questioning (“LGBTQ+”) individuals.

Table 2: Summary of Community Employment Benefits achieved up to August 31, 2020

Category	Benefit	Summary
Apprentices	0 Hours 0 %	39% (min. target 20-30%)
Indigenous peoples	0 Hours 0 %	
Women	3,126 Hours 23.6 %	
Persons with disabilities	0 Hours 0 %	
Veterans	0 Hours 0 %	
Youth	1,808 Hours 13.7%	
Recent immigrants	102 Hours 2%	
LGBTQ+ individuals	TBD	
Small enterprises	\$2,829,798.06	81% (min. target 50%)
Medium enterprises	\$508,766.28	
Social enterprises	\$27,275.00	

Biannual Progress Reporting and Oversight Committee

The City has completed three biannual progress reports and reimbursement claims to Infrastructure Canada. An Oversight Committee has been established with representatives from City of Surrey and Infrastructure Canada meeting bi-annually. A collaborative approach to the project has been established through these meetings. City staff also continue to meet with Infrastructure Canada representatives regularly to monitor the progress on the City’s public communication requirements and the legal Duty to Consult with Indigenous governments.

DMAF Cost-Sharing and Partnerships

Ultimate Recipient Agreements

It is a requirement of the Federal Government that the City of Surrey, as a DMAF Recipient, enters into an Ultimate Recipient Agreement with each organization that will incur costs eligible for reimbursement by the City of Surrey, using Federal DMAF funds. As authorized by Council at Regular Council Meeting on July 22, 2019, and described in Corporate Report No. R158; 2019, staff prepared and executed Ultimate Recipient Agreements with the City of Delta and Southern Railway of British Columbia Limited. Ultimate Recipient Agreements with Semiahmoo First Nation, the Greater Vancouver Water District and the Government of British Columbia remain in discussion and all remain interested in developing agreements with the City of Surrey.

Partnerships

Several Indigenous nations, as well as Provincial and Federal agencies, are active in providing input into the Foreshore Enhancements (DMAF project 13) and participating in a Boundary Bay Living Dike Roundtable, in which the City actively participates as well. There have also been several multi-year research projects valued at over \$1 million each that have a considerable interest in the Foreshore Enhancements project. City staff are, along with multiple other governmental and academic partners, participating in the following research initiatives:

- *Coastal Adaptation: Living with Water.* Funded by Pacific Institute for Climate Solutions and led by University of British Columbia School for Architecture and Landscape Architecture. The overall objective of this project is to develop new planning, design and decision-making tools to help communities and the ecosystems they depend on adapt to the impacts of sea level rise and coastal flooding along the South Coast of British Columbia.
- *Nature-Based Infrastructure for Coastal Resilience and Risk Reduction.* Funded by Defence Research and Development Canada and led by National Research Council Canada. This project is addressing key factors and data gaps limiting the uptake of nature-based infrastructure for coastal flood and erosion risk reduction in Canada.

In addition to the abovementioned partnerships, several other partners will be contributing funds to the various DMAF projects.

Memorandum of Understanding

Implementation of the Foreshore Enhancements (DMAF project 13) requires the authorization of the Province for the portion of works located within the Boundary Bay Wildlife Management Area. A portion of the works also falls within the City of Delta, Surrey's partner on this project. These interjurisdictional arrangements will be formalized in an MOU between the parties. Staff have prepared a draft MOU, which is currently being review by the Province (Ministry of Forests, Lands, Natural Resource Operations and Rural Development) and the City of Delta.

Next Steps

Annual Corporate Reports will be provided to Council to provide updates on the implementation of CFAS and DMAF. As construction and consulting contracts are awarded throughout the year as part of delivering the DMAF Program, Corporate Reports will be provided with additional updates to Council, as and when available.

FUNDING

Funding for implementation of DMAF projects remains in accordance with the Contribution Agreement, which provides for up to 41.5% of eligible costs to be reimbursed by the Federal Government. To date, approximately \$5.0 million of eligible expenditure has been incurred. Federal reimbursement is expected to be complete for three of the 13 assets this winter, and financial claims will continue to be made to the Government of Canada, as expenditures are incurred for the remaining assets throughout 2021.

To ensure the City remains eligible for the grant funding received, the overall program must be completed by March 31, 2028, including satisfying the program requirements set out in the Contribution Agreement.

The work continues to be conducted in phases, and necessary funding for the phases of work between 2021 and 2025 is available for the City's portion of the DMAF Project within the Approved 5-Year Financial Plan.

SUSTAINABILITY CONSIDERATIONS

The implementation of CFAS supports the objectives of the City's Sustainability Charter 2.0. In particular, the CFAS relates to the Sustainability Charter 2.0 themes of Infrastructure, Built Environment and Neighbourhoods, Ecosystems, and Public Safety. Specifically, CFAS and the DMAF projects support the following Desired Outcomes ("DO") and Strategic Directions ("SD"):

- All Infrastructure DO3: Infrastructure systems are designed to protect human health, preserve environmental integrity, and be adaptable to climate change impacts;
- Energy and Climate SD7: Address long term sea level rise and related climate impacts in Surrey's lowlands and affected communities;
- Emergency Preparedness and Prevention DO8: The community's critical infrastructure and systems are designed to withstand climate change impacts and natural events and disasters, and include emergency response and reconstruction plans;
- Emergency Preparedness and Prevention SD6: Promote development types and locations that will be minimally impacted by natural disasters; and
- Green Infrastructure DO12: Surrey protects ecosystem services and manages natural assets in order to create resiliency to adapt and thrive in a changing climate.

CONCLUSION

Based on the above discussion, the Engineering Department, the Planning & Development Department and the Parks, Recreation & Culture Department recommend that Council receive this report as information and authorize the Mayor and City Clerk to execute an MOU between the City of Delta, the Province and the City.

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General Manager,
Engineering

Laurie Cavan
General Manger,
Parks, Recreation & Culture

Jean Lamontagne
General Manager,
Planning & Development

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Appendix "I" – Corporate Report No. Ro60; 2020
Appendix "II" –DMAF Program Status Map

NO: **RO60**

COUNCIL DATE: **April 6, 2020**

REGULAR COUNCIL

TO: **Mayor & Council** DATE: **April 2, 2020**
FROM: **General Manager, Planning & Development** FILE: **6520-20 (Crescent Beach)**
SUBJECT: **Crescent Beach Neighbourhood Zoning - Response to Higher Flood
Construction Levels**

RECOMMENDATIONS

The Planning & Development Department recommends that Council:

1. Receive this report for information;
2. Rescind Council Policy O-28 "Development Variance Permit – Crescent Beach" (attached as Appendix "I");
3. Instruct staff to consult with area residents on proposed new zoning provisions that take into account current and future flood construction level requirements for all new single-family dwellings constructed in the Crescent Beach Neighbourhood;
4. Direct staff to report back to Council on the outcome of the neighbourhood consultation process prior to bringing forward new Crescent Beach zoning provisions for Council's consideration; and
5. Instruct the City Clerk to forward a copy of this report and the related Council resolution to representatives of the Crescent Beach Property Owner's Association.

INTENT

The intent of this report is to provide background on the current Development Variance Permit ("DVP") process used to vary flood construction levels ("FCLs") for new house construction in Crescent Beach, and to seek endorsement for a City-led public consultation process on proposed new zoning provisions for Crescent Beach, which respond to Council's approval of the Coastal Flood Adaptation Strategy and recent amendments to the Provincial Flood Hazard Area Land Use Management Guidelines.

Repealing Council Policy No. O-28 will provide Council a more thorough opportunity to consider any proposal to vary the flood construction levels.

BACKGROUND

The Crescent Beach neighbourhood in South Surrey is adjacent to Boundary Bay and contains approximately 350 single-family lots (Appendix "II"). The Crescent Beach neighbourhood is located entirely within the 200-year floodplain. The FCL in Crescent Beach is based on the Geodetic Survey of Canada and has been set at 3.3 metres above sea level ("ASL") since the mid-1990s.

Current City Policy for Development Variance Permits to Flood Construction Levels

The floodproofing provisions of *Surrey Zoning By-law, 1993, No. 12000*, as amended, requires that all habitable space of buildings be located above the FCL of 3.3 metres ASL. In August 1992, Council passed a resolution (No. 92-3220) and adopted Policy O-28 "Development Variance Permit – Crescent Beach" ("Policy O-28"), permitting owners to apply for variances to reduce the FCL to 0.3 metres above the elevation of the road centre line fronting their property (Appendix "II"). The rationale for varying FCL elevations was to ensure that the neighbourhood's unique form and character would be maintained, without causing neighbourhood concerns about the visual impacts associated with raising the minimum floor elevation for the habitable area. This policy was reconfirmed by Council in July 2001.

Policy O-28 allows for an expedited Development Variance Permit ("DVP") process, which does not require a planning report to be presented for Council's consideration and approval. Area residents are notified of the DVP as required under the *Local Government Act*, and after the notification period is concluded, Council may issue the DVP by a Council resolution.

As part of the process, owners are required to register an indemnification Restrictive Covenant in favour of the City in order to allow the construction of habitable space below the FCL. Most Crescent Beach owners who have obtained building permits for new house construction have elected to follow the DVP process outlined in Policy O-28. Since 1992, approximately 83 DVPs have been approved in order to reduce the required FCL in the Crescent Beach community.

Rescinding Council Policy No. O-28 will ensure that any application that is proposing to develop below the FCL will be considered following the City's standard DVP process, including requiring a Planning Report to Council, prior to Public Notification. Given efforts to manage for sea level rise as identified in this report, it is considered appropriate to rescind Policy O-28 and follow the City's standard process for DVPs.

DISCUSSION

On January 1, 2018 the Ministry of Forests, Lands, Natural Resource Operations and Rural Development amended its Provincial Flood Hazard Area Land Use Management Guidelines. The amendment recommends that coastal communities allow for a 1.0 metre sea level rise to the year 2100, and a 2.0 metre sea level rise to the year 2200.

The Provincial Flood Hazard Land Use Management Guidelines indicates that for a property to be considered properly flood protected, requirements for flood construction levels need to be met. This entails ensuring that areas used for habitation, business or storage of goods damageable by floodwaters are not be constructed below the FCL. The provincial *Emergency Program Act* (Section 30) indicates that if an area is designated as a flood plain, homeowners will not qualify

for Provincial emergency assistance if they construct below the FCL. It is noted that this applies to newer construction, as historic homes may be eligible for compensation from damage caused by a flood event.

Related to the above changes at the provincial level, the City has been working on a Coastal Flood Adaptation Strategy ("CFAS") since 2016 in order to explore ways to reduce climate change-driven coastal flood risk now and into the future. A range of strategic actions were developed to help the City's coastal communities become more resilient to the challenges posed. Council endorsed the Surrey Coastal Flood Adaptation Strategy – Final Report on November 4, 2019 (Corporate Report No. R212; 2019, Appendix "III").

The CFAS identified five actions related to FCL in Crescent Beach that would aid in reducing risk related to rising sea levels:

1. Support flood resilient design (Action 11);
2. Explore Sea Level Rise Planning Areas (Action 12);
3. Design Standards Guidebook (Action 13);
4. Build Back Better Program (Action 19); and
5. Drainage Improvements (Action 43).

These actions are anticipated to commence between 2020 and 2030.

There was a high level of public participation in developing the CFAS. The online survey for Crescent Beach revealed the following:

- 55% support building new homes above expected flood levels;
- 27% support raising existing homes above expected flood levels;
- 39% support existing practice of leaving existing houses as they are and raising new homes slightly; and
- 41% support building new homes using flood tolerant materials.

Crescent Beach Pilot Projects with Increased Flood Construction Levels

In response to the CFAS and the recent amendments to the Provincial Flood Hazard Area Land Use Management Guidelines, some owners in Crescent Beach have been proactive to ensure that their new houses consider anticipated sea level rises.

Staff recently worked with the owner of 2954 O'Hara Lane as a "pilot project" to design a flood resilient, three-storey single-family dwelling on this lot. The ground level is comprised of uninhabited, flood tolerant space, while the second and third levels of the dwelling would be habitable living space that is constructed above current and future FCL requirements. To achieve this, the owner submitted a development application (Application No. 7917-0550-00) to rezone their property to a Comprehensive Development (CD) Zone, which made allowances for

calculation of density, and increased lot coverage and building height. Final adoption of the CD zone was approved by Council on December 16, 2019. The house was carefully designed to be integrated with the existing character of the neighbourhood (Appendix "IV").

Staff are currently reviewing two new rezoning applications for properties in Crescent Beach, which also propose new houses that have all habitable space located above current and future FCL requirements, similar to the approved rezoning for the house at 2954 O'Hara Lane. These development applications are expected to be presented to Council for consideration later this spring.

Proposal

In accordance with the approved recommendations in the CFAS, as well as recent amendments to the Provincial Flood Hazard Area Land Use Management Guidelines, staff are proposing that the current DVP process to reduce FCLs be phased out, and that new zoning provisions which would be applied to all single-family lots in Crescent Beach be investigated with area residents. The new zoning provisions are intended to respond to current and future FCL requirements, while recognizing the uniqueness of the Crescent Beach community and mitigating potential visual impacts associated with raising minimum floor elevations through appropriate design guidelines.

Proposed Neighbourhood Consultation Process

Subject to Council approval, staff is proposing that a City-led public consultation process be undertaken with area residents around new zoning provisions which support new house constructions that consider anticipated sea level rise. Staff anticipate that the public consultation process could begin once the various directives put in place by the authorities to combat the spread of the COVID-19 coronavirus have been lifted. It is anticipated that the public consultation process may take approximately six to eight weeks.

The proposed neighbourhood consultation process would entail at least one Public Information Meeting ("PIM") with area residents and working closely with the Crescent Beach Property Owner's Association ("CBPOA").

Upon completion of the public consultation process, staff will provide a report to Council for consideration that summarizes the input of area residents and the CBPOA, along with recommendations for proposed zoning provisions that would apply to the Crescent Beach neighbourhood.

SUSTAINABILITY CONSIDERATIONS

The work of this review supports the objectives of the City's Sustainability Charter 2.0. In particular, this work relates to Sustainability Charter 2.0 themes of Built Environment and Neighbourhoods and Public Safety. Specifically, this project supports the following Desired Outcomes ("DO") and Strategic Directions ("SD"):

- Built Environment and Neighbourhoods DO7: Exposure to natural hazards is minimized through appropriate location and design of development.
- Built Environment and Neighbourhoods DO9: All aspects of planning, design and construction include climate change impacts, greenhouse gas (GHG) mitigation, adaptation, and resiliency strategies.

- Public Safety SD6: Promote development types and locations that will be minimally impacted by natural disasters.

CONCLUSION

This report provides members of Council with background information on proposed steps to address recommendations in the 2019 Climate Flood Adaptation Strategy report to reduce risk associated with sea level rise in the Crescent Beach neighbourhood.

Given the discussion in this report staff recommend that Council approve the recommendations in this report directing staff to initiate a public consultation process to identify appropriate tools that may be used to accommodate anticipated sea level rise in Crescent Beach.

For 

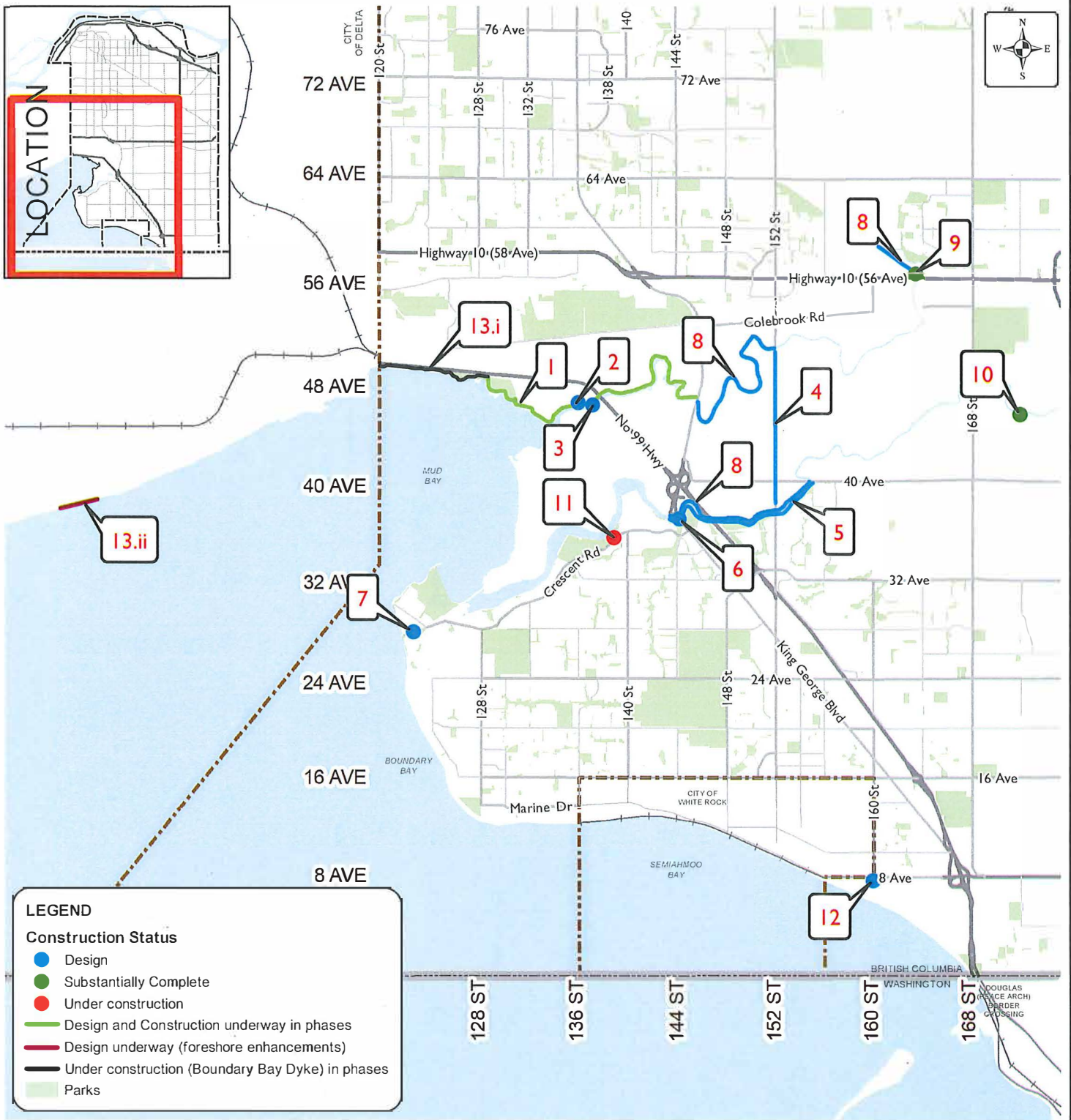
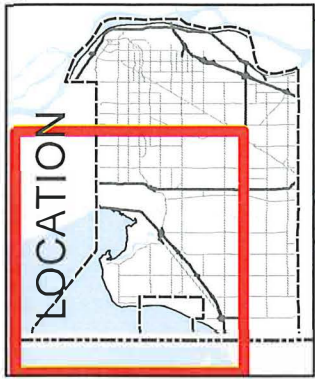
Jean Lamontagne
General Manager, Planning & Development

Appendix "I"	Policy O-28 "Development Variance Permit – Crescent Beach"
Appendix "II"	Crescent Beach Neighbourhood
Appendix "III"	Corporate Report No. R212; 2019 Surrey Coastal Flood Adaptation Strategy – Final Report (November 4, 2019)
Appendix "IV"	2954 O'Hara Lane (Development Application No. 7917-0550-00) House Plans

[https://surreybc-my.sharepoint.com/personal/p206375_surrey_ca/documents/desktop/1final crescent beach report.docx](https://surreybc-my.sharepoint.com/personal/p206375_surrey_ca/documents/desktop/1final%20crescent%20beach%20report.docx)
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Note: Appendices available upon request

APPENDIX "II"



Produced by GIS Section: 30-Nov-2020, P205934

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2020 DMAF Program Status

ENGINEERING DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey. This information is provided for information and convenience purposes only. Lot sizes, Legal descriptions and encumbrances must be confirmed at the Land Title Office.