



North Shore Wastewater Treatment Plant

PROJECT STATUS UPDATE

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PROJECT MANAGER, NSWWTP PROGRAM

LIQUID WASTE SERVICES

Liquid Waste Committee Meeting, January 17, 2019

27973157



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Integrated Liquid Waste and Resource Management

A Liquid Waste Management Plan
for the Greater Vancouver
Sewerage & Drainage District
and Member Municipalities



y 2010

vancouver.org



CANADA

CONSOLIDATION

CODIFICATION

Wastewater Systems
Effluent Regulations

Règlement sur les
effluents des systèmes
d'assainissement des eaux
usées

SOR/2012-139

DORS/2012-139

Current to March 16, 2013

À jour au 16 mars 2013

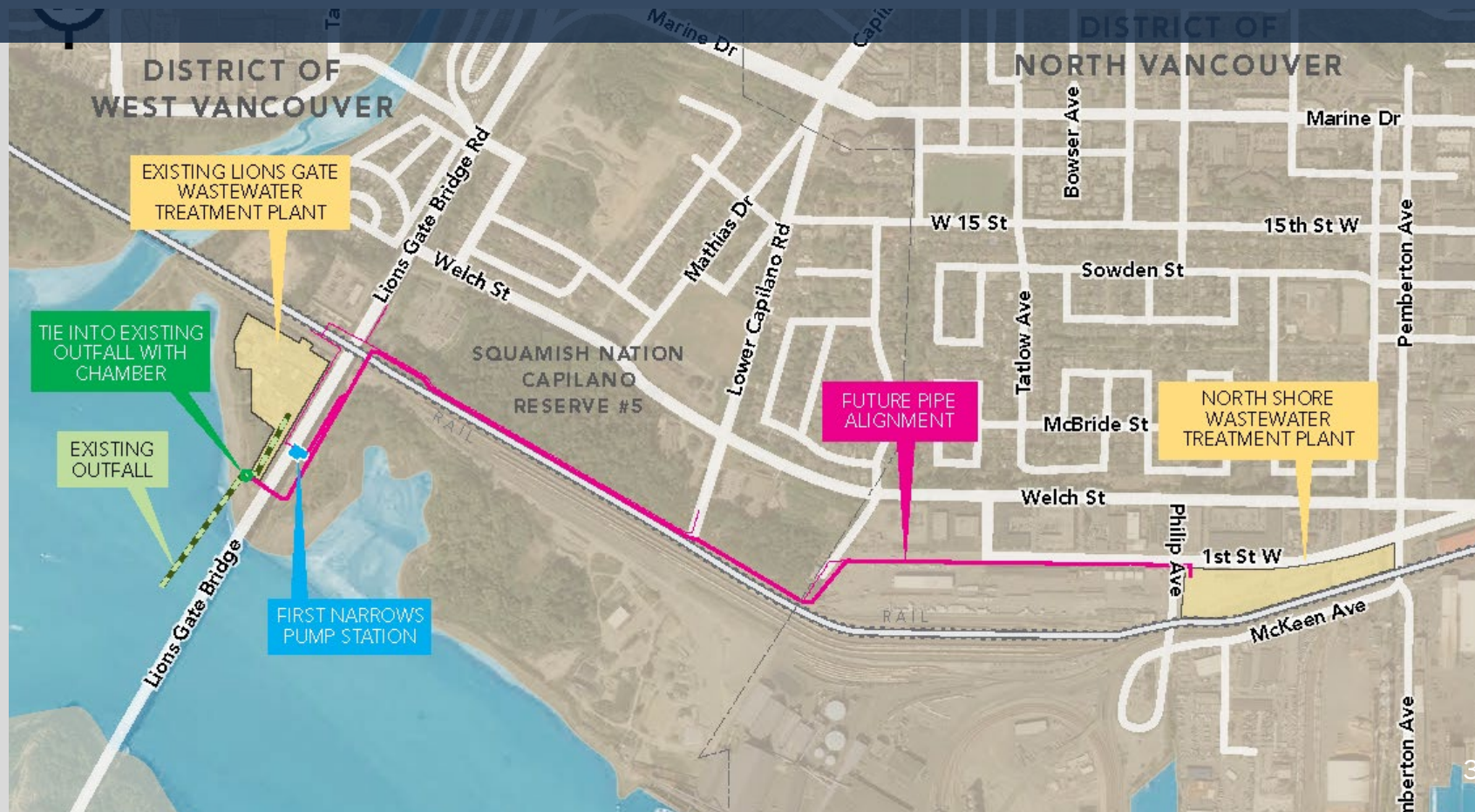
Last amended on January 1, 2013

Dernière modification le 1 janvier 2013



Regulatory Driven

Components



- Robust Secondary Wastewater Treatment
- Sustainable
- Recovers Resources
- Integrated into the Community

Project Objectives

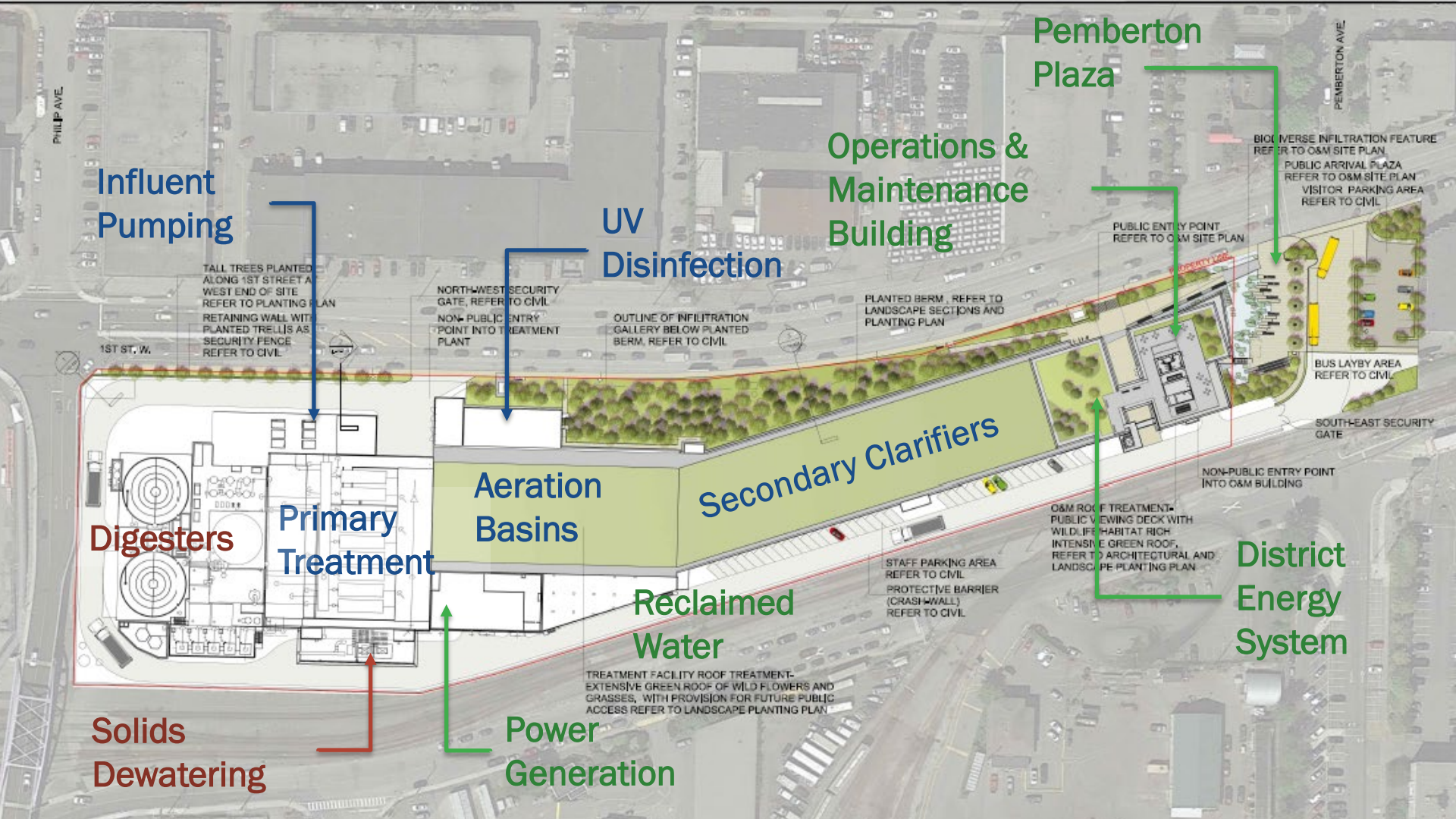
NORTH SHORE WASTEWATER TREATMENT PLANT



District Energy Option - October 5, 2017

- Awarded District Energy Heating, October 5, 2017
- Agreement with Lonsdale Energy Corp for the purchase of the heat
- GHG Neutral Liquid Waste Utility (5700 T/year)





Influent Pumping

UV Disinfection

Operations & Maintenance Building

Pemberton Plaza

District Energy System

Power Generation

Primary Treatment

Aeration Basins

Secondary Clarifiers

Digesters

Solids Dewatering

Reclaimed Water

TALL TREES PLANTED ALONG 1ST STREET A WEST END OF SITE REFER TO PLANTING PLAN
RETAINING WALL WITH PLANTED TRELLIS AS SECURITY FENCE REFER TO CIVIL

NORTHWEST SECURITY GATE, REFER TO CIVIL
NON-PUBLIC ENTRY POINT INTO TREATMENT PLANT

OUTLINE OF INFILTRATION GALLERY BELOW PLANTED BERM, REFER TO CIVIL

PLANTED BERM, REFER TO LANDSCAPE SECTIONS AND PLANTING PLAN

PUBLIC ENTRY POINT REFER TO O&M SITE PLAN

BIO DIVERSE INFILTRATION FEATURE REFER TO O&M SITE PLAN
PUBLIC ARRIVAL PLAZA REFER TO O&M SITE PLAN
VISITOR PARKING AREA REFER TO CIVIL

BUS LAYBY AREA REFER TO CIVIL

SOUTH-EAST SECURITY GATE

NON-PUBLIC ENTRY POINT INTO O&M BUILDING

O&M ROOF TREATMENT: PUBLIC VIEWING DECK WITH WILDLIFE HABITAT RICH INTENSIVE GREEN ROOF, REFER TO ARCHITECTURAL AND LANDSCAPE PLANTING PLAN

STAFF PARKING AREA REFER TO CIVIL
PROTECTIVE BARRIER (CRASH WALL) REFER TO CIVIL

TREATMENT FACILITY ROOF TREATMENT: EXTENSIVE GREEN ROOF OF WILD FLOWERS AND GRASSES, WITH PROVISION FOR FUTURE PUBLIC ACCESS REFER TO LANDSCAPE PLANTING PLAN









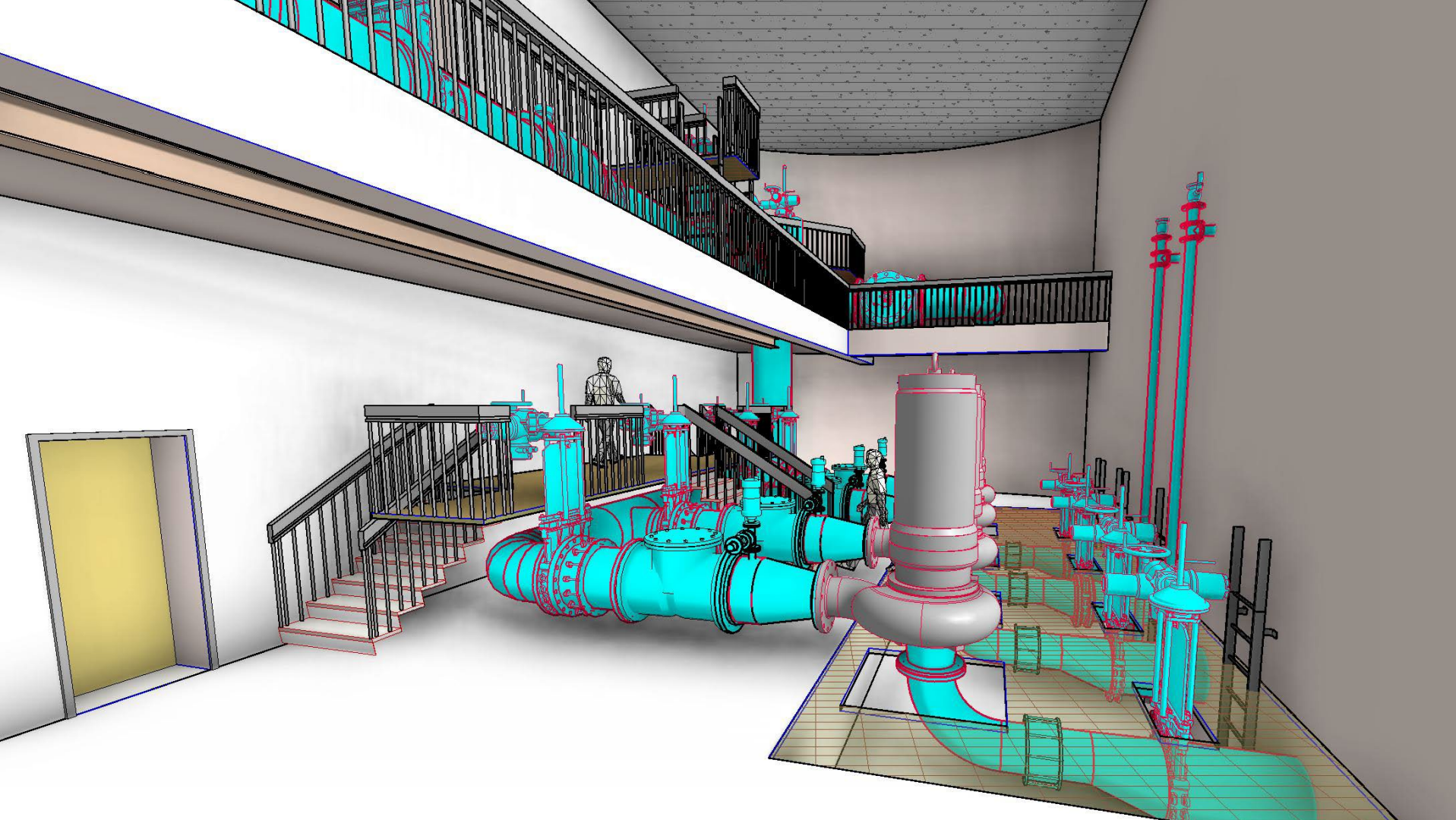


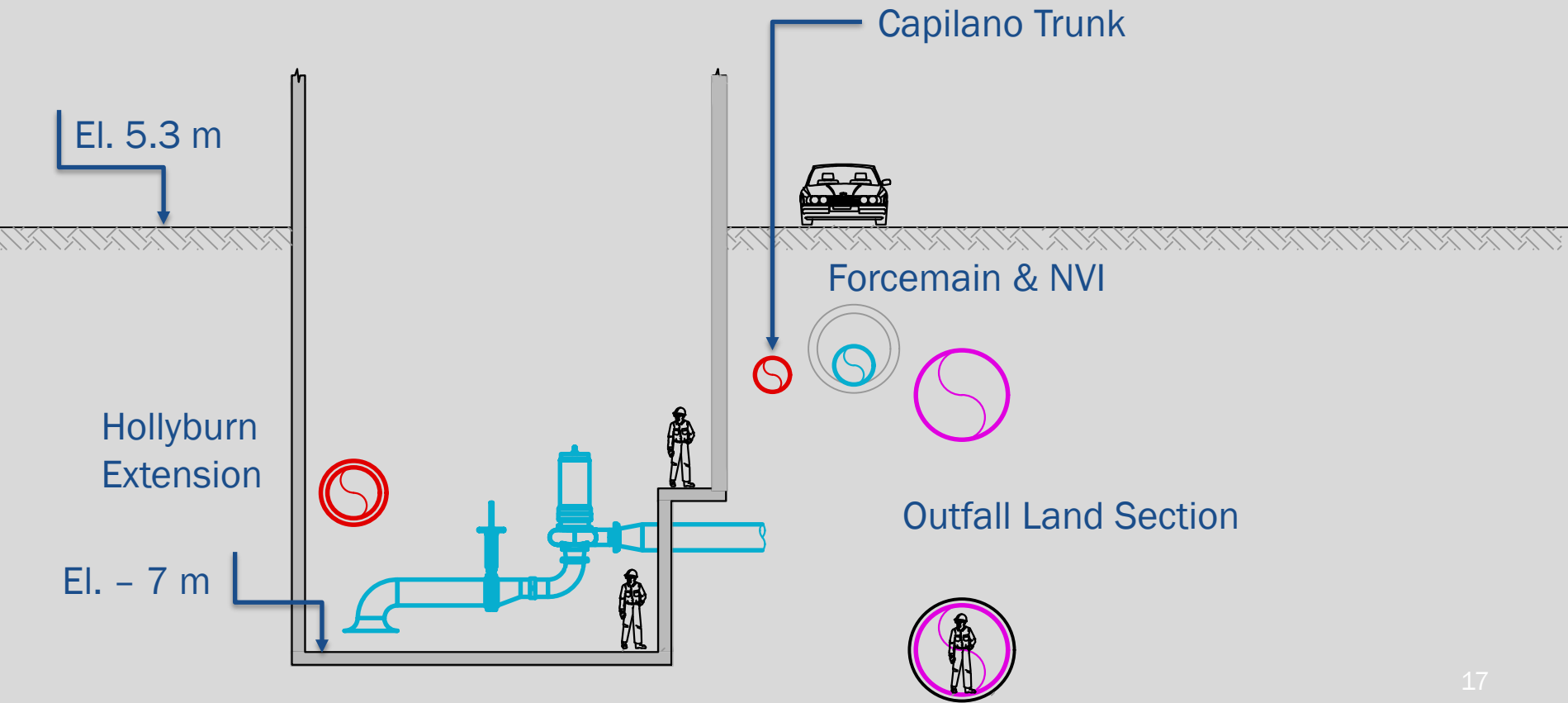






First Narrows Pump Station









Budget and Funding

Item	Projected Expenditures
Project Initiation / Definition (Complete)	\$ 20,000,000
NSWWTP Program	\$ 727,900,000
Contingency	\$ 30,000,000
Total Project Budget	\$ 777,900,000
Government of Canada Funding	\$ 212,300,000
Province of British Columbia Funding	\$ 193,000,000
GVS&DD Net Project Amount	\$ 372,600,000



Questions



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