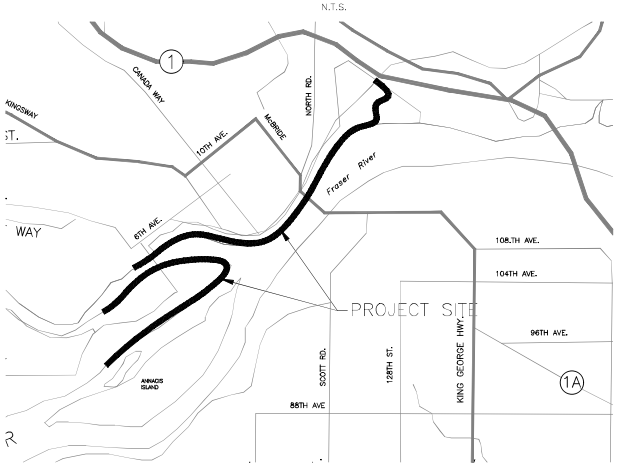
LOCATION PLAN

N.T.S.



GENERAL NOTES:

1. DIKE DESIGN CREST LEVELS (DCL) AND GENERAL DESIGN CRITERIA ARE DESCRIBED IN 'PROPOSED DIKE DESIGN CRITERIA FOR CLIMATE CHANGE DRAFT REPORT REV0' BY NHC, JUNE 23, 2021

2. ASSUMED EARTH DIKE GEOMETRY:
   - 4m CREST WIDTH
   - 3H:1V SIDE SLOPES
   - 7.5m RIGHT OF WAY FROM TOE OF DIKE

3. TEMPORARY STORM WATER MANAGEMENT TO BE IMPLEMENTED AT UPSTREAM MANHOLES DURING HIGH WATER EVENTS. ALL OUTFALLS SHALL BE FITTED WITH FLOOD GATES OR DUCK BILLS.

4. AERIAL PHOTOGRAPH FROM GEOMAP CIVIL 3D 2021

5. SURVEY DATA FROM FROM CITY OF NEW WESTMINSTER (2006), 2016 LIDAR, AND 2021 DIKE CREST SURVEY. ALL ELEVATIONS ARE REFERENCED TO CGVD2013 VERTICAL DATUM.

6. DIKE STATIONING FOR QUEENSBOROUGH DIKE PLAN+PROFILE PER CENTRE LINE OF SURVEY PATH. DIKE STATIONING FOR QUEENSBOROUGH SHEET 01 TO 09 BASED ON 2011 DELCAN CONCEPTUAL PLAN STATIONING WITH MINOR MODIFICATIONS.

LEGEND

PROPOSED

- EARTH DIKE
- TOE OF DIKE
- HYDROSEEDED BANK
- TOP OF DIKE
- DIKE CREST
- RIPRAP ARMOURED BANK
- DIKE YEAR 2100
- SHEET PILE
- CONCRETE FLOODWALL
- DEMOUNTABLE STRUCTURE; STOP LOG
- CONCRETE ABUTMENT
- FLOOD GATE
- RIGHT OF WAY
- DIKE ALIGNMENT
- RETAINING WALL

EXISTING

- SANITARY
- STORM
- WATER
- MAJOR CONTOUR (1m)
- MINOR CONTOUR (0.2m)
- EARTH DIKE
- FLOOD WALL

5.2 — PROPOSED ELEVATION YEAR 2100
2 — PROPOSED ELEVATION YEAR 2050
3.8 — EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)

YEAR 2100 EXTENT OF FLOOD PLAIN

DRA ING INDE

NAME	TITLE	PAGE No
	COVER PAGE LEGEND	00
001	UEENSBOROUG DIKE PLAN PROFILE	01
101	UEENSBOROUG PLANS 1 OF	02
102	UEENSBOROUG PLANS 2 OF	03
103	UEENSBOROUG PLANS 3 OF	0
10	UEENSBOROUG PLANS OF	0
10	UEENSBOROUG PLANS OF	0
10	UEENSBOROUG PLANS OF	0
10	UEENSBOROUG PLANS OF	0
10	UEENSBOROUG PLANS OF	0
10	UEENSBOROUG PLANS OF	10
M001	MAINLAND DIKE PLAN	11
M101	MAINLAND PLANS 1 OF 13	12
M102	MAINLAND PLANS 2 OF 13	13
M103	MAINLAND PLANS 3 OF 13	1
M10	MAINLAND PLANS OF 13	1
M10	MAINLAND PLANS OF 13	1
M10	MAINLAND PLANS OF 13	1
M10	MAINLAND PLANS OF 13	1
M10	MAINLAND PLANS OF 13	1
M10	MAINLAND PLANS OF 13	20
M110	MAINLAND PLANS 10 OF 13	21
M111	MAINLAND PLANS 11 OF 13	22
M112	MAINLAND PLANS 12 OF 13	23
M113	MAINLAND PLANS 13 OF 13	2

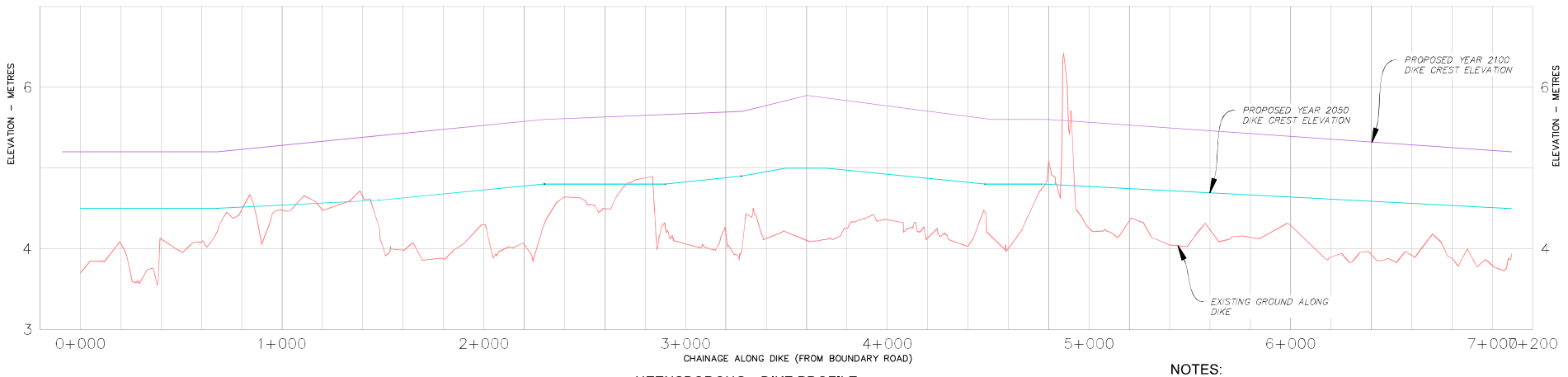
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan

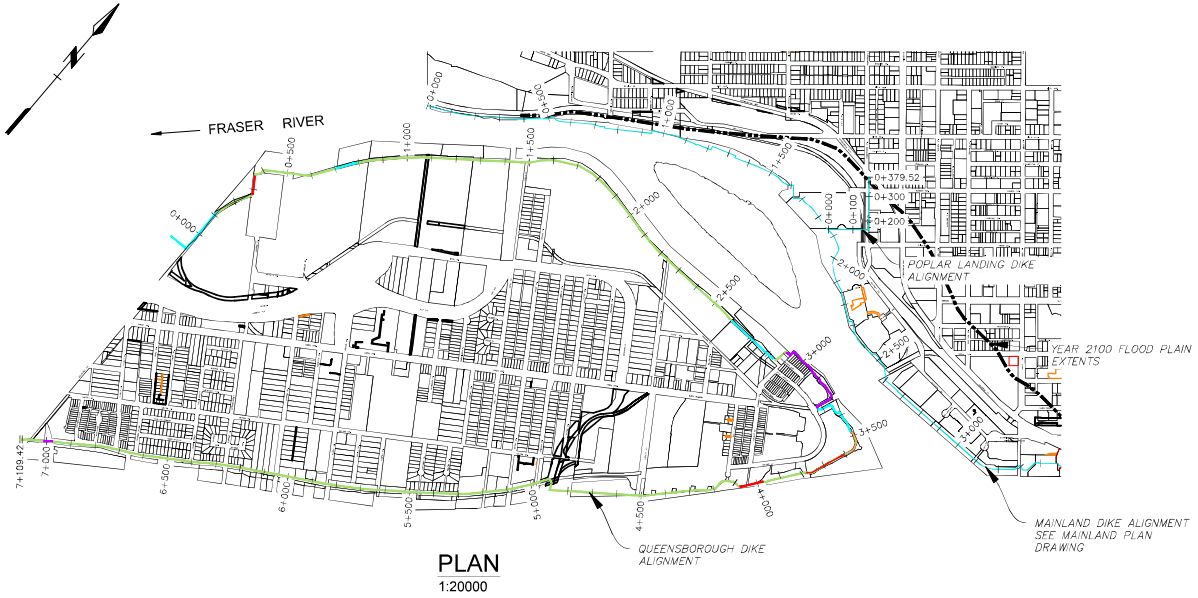
June 2022

nhc northwest hydraulic consultants

wsp



UEENSBOROUG DIKE PROFILE
1:20000 1: 00 V



PLAN
1:20000

0 200 1:20 000 1000m

NOTES:

- EXISTING DIKE CREST ELEVATIONS FROM 2021 SURVEY.
- DIKE DESIGN CREST LEVELS (DCL) AND GENERAL DESIGN CRITERIA ARE DESCRIBED IN THE JUNE 24, 2021 NHC 'PROPOSED DIKE DESIGN CRITERIA FOR CLIMATE CHANGE DRAFT REPORT REVO'.

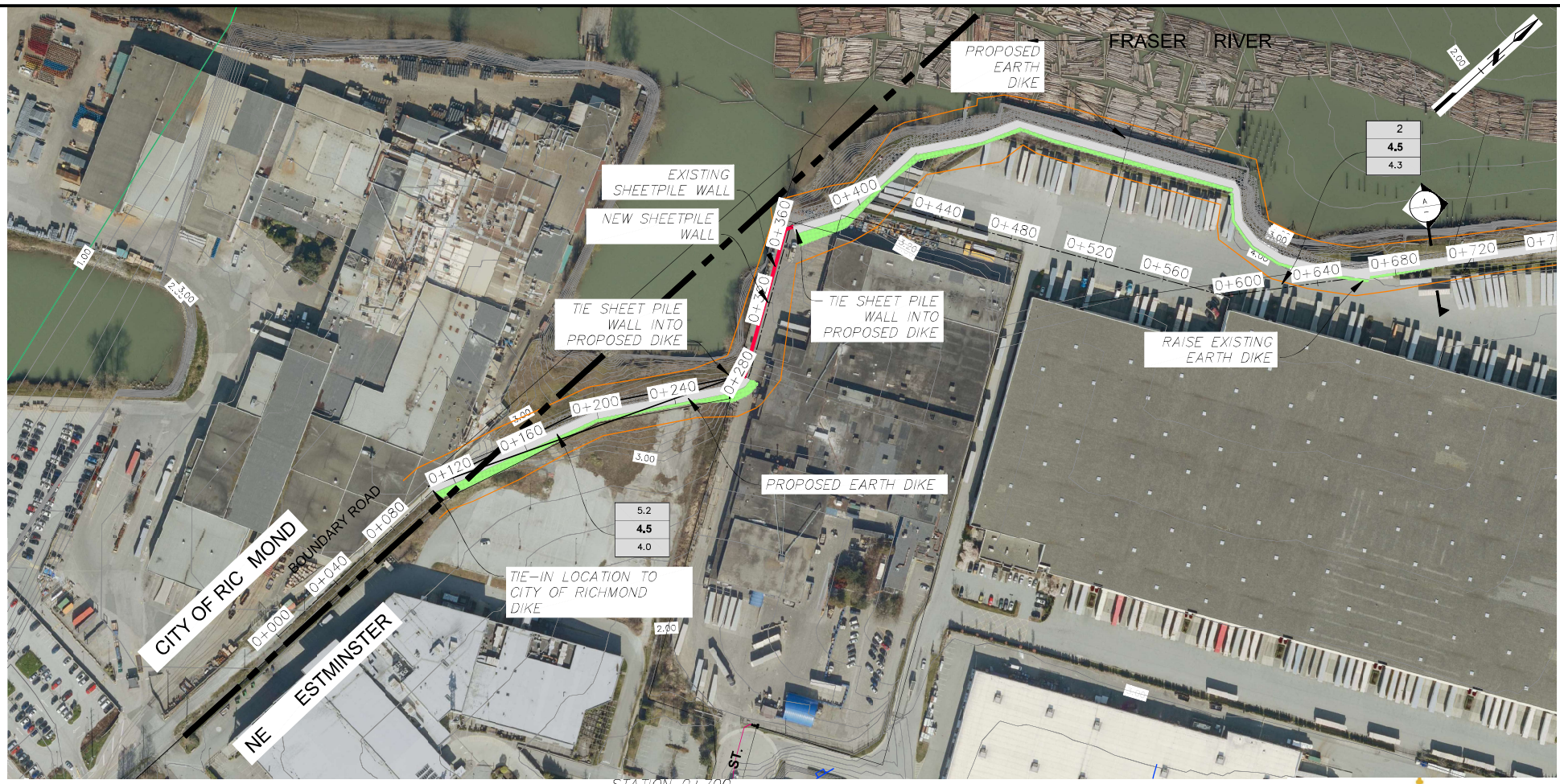
LEGEND
- EARTH DIKE TO 2050 DCL
- EARTH DIKE TO 2100 DCL
- FLOOD WALL TO 2050 DCL
- FLOOD WALL TO 2100 DCL
- NO FLOOD PROTECTION PROPOSED

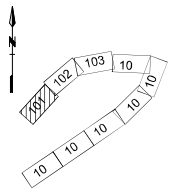
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
eensboro g
Plan Profile

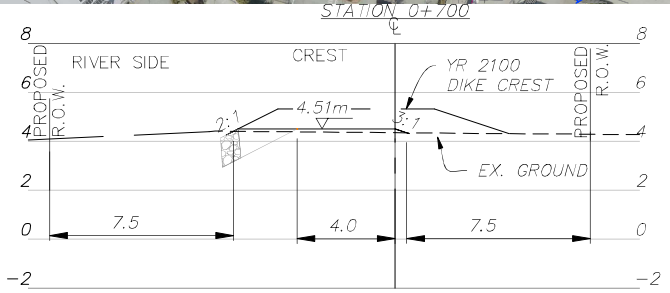
nhc northwest hydraulic consultants wsp

June 2022





0 20 1:2000 100m



SECTION A–A
1:200

LEGEND

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

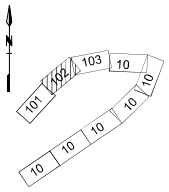
Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans 1 of 101

nhc northwest hydraulic consultants

wsp

June 2022

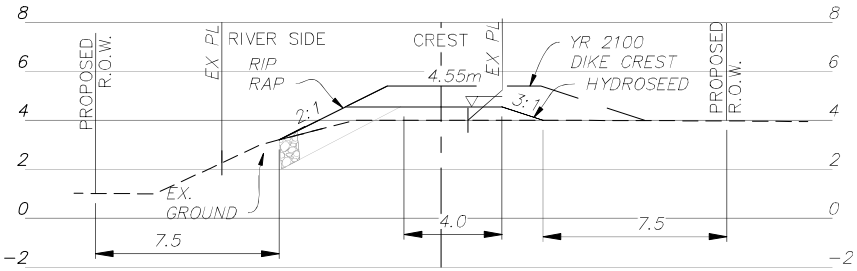




KEYPLAN

0 20 1:2000 100m

STATION 1+100



SECTION A-A
1:200

NEW WESTMINSTER

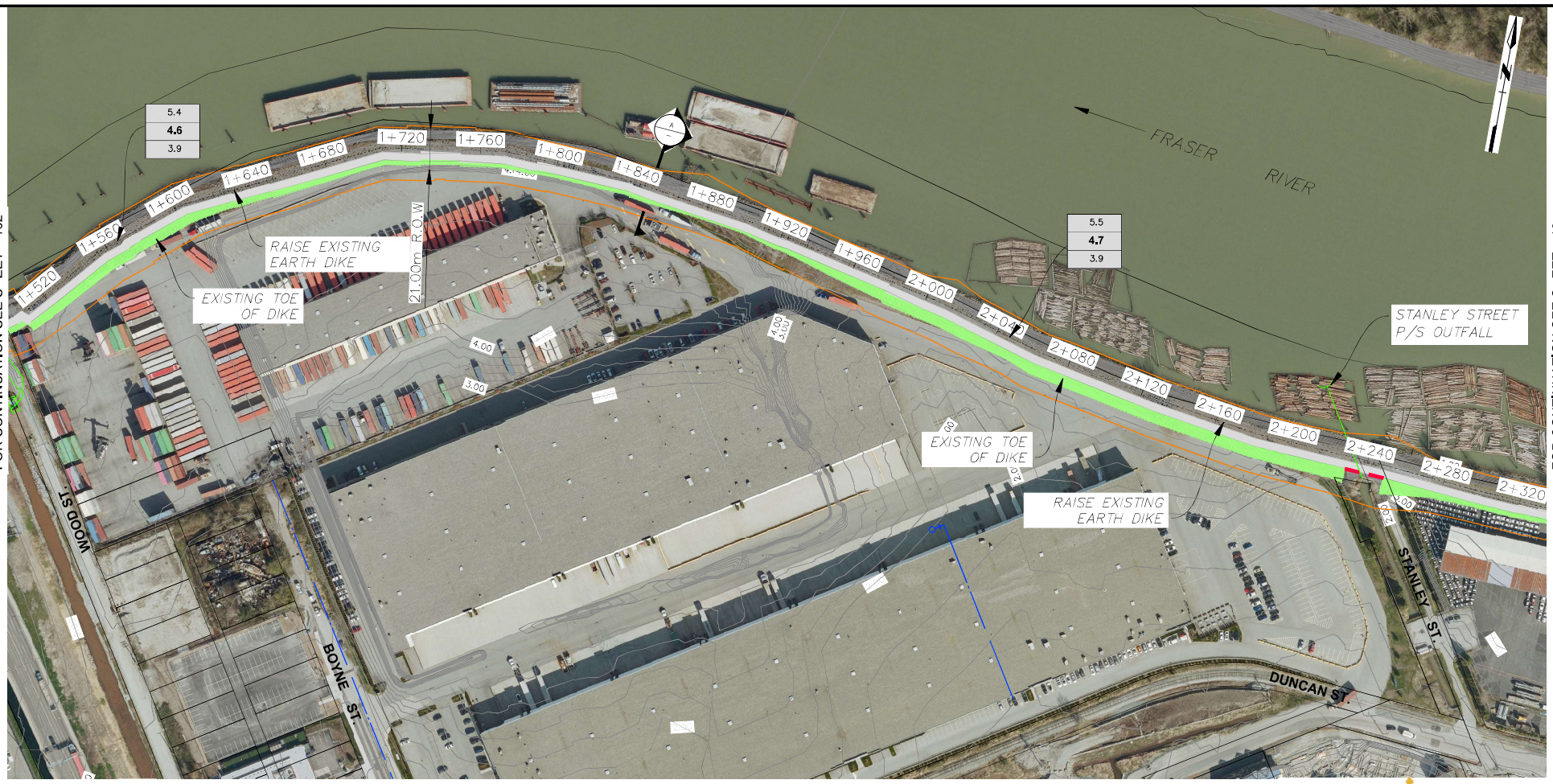
Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans 2 of 102

LEGEND
- PROPOSED ELEVATION YEAR 2100
- PROPOSED ELEVATION YEAR 2050
- EXISTING ELEVATION
- PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
- YEAR 2100 EXTENT OF FLOOD PLAIN

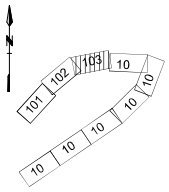
nhc northwest hydraulic consultants

wsp

June 2022

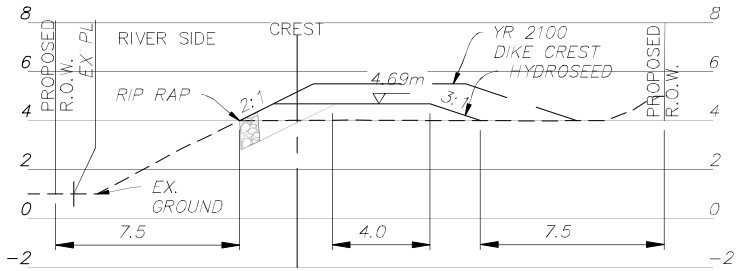


KEYPLAN



0 20 1:2000 100m

STATION 1+850



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

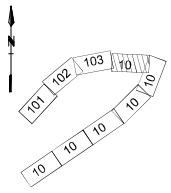
Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans 3 of 103

nhc | northwest hydraulic consultants

wsp

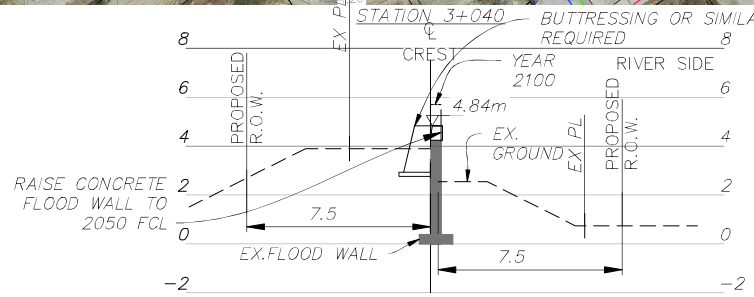
June 2022





KEYPLAN

0 20 1:2000 100m



SECTION A-A
1:200

LEGEND

5.2 PROPOSED ELEVATION YEAR 2100
4.2 PROPOSED ELEVATION YEAR 2050
3.8 EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)

YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

nhc northwest hydraulic consultants

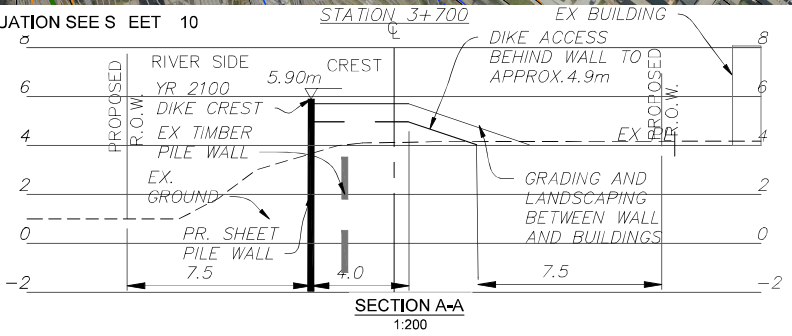
wsp

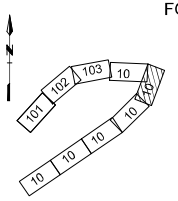
June 2022



FOR CONTINUATION SEE S EET 10

FOR CONTINUATION SEE S EET 10





0 20 1:2000 100m

LEGEND

5.2 4.2 3.5 PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

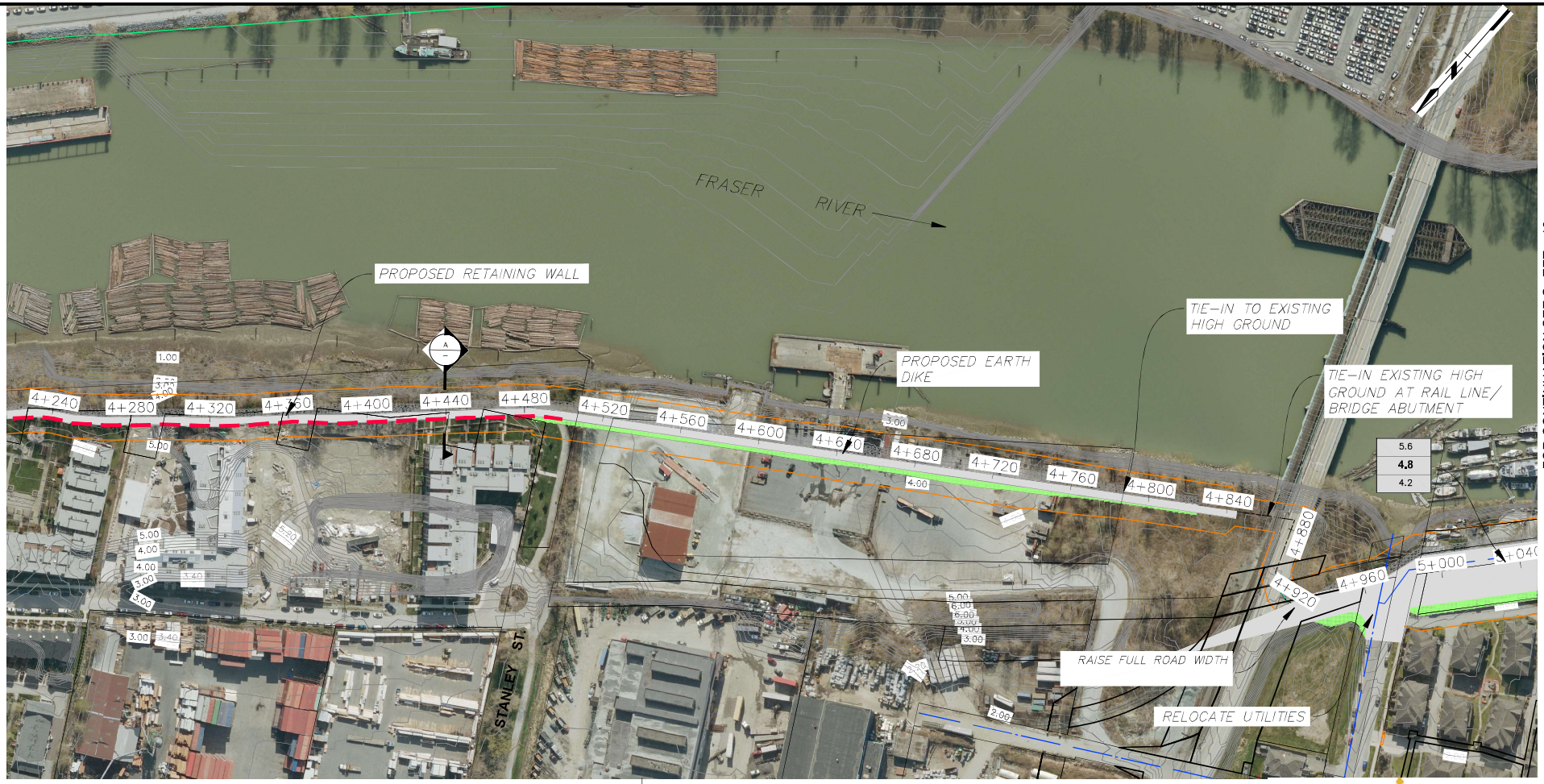
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

nhc northwest hydraulic consultants

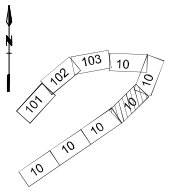
wsp

June 2022



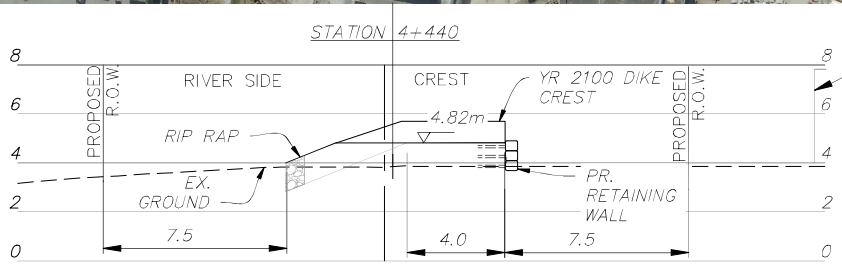
FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 10



KEYPLAN

0 20 1:2000 100m



SECTION A-A
1:200

LEGEND

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXSTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

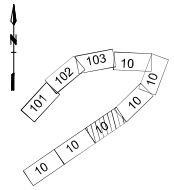
Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

nhc | northwest hydraulic consultants

wsp

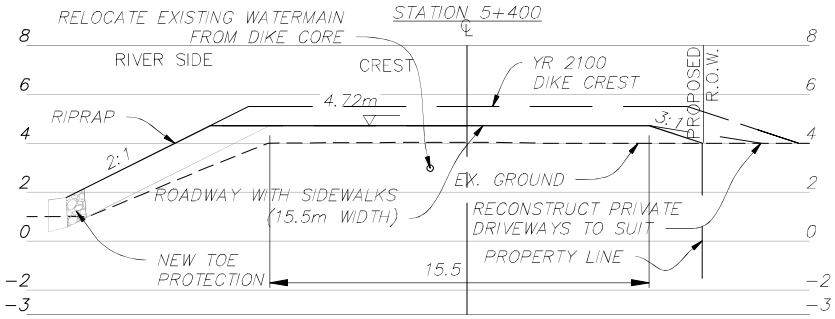
June 2022





KEYPLAN

0 20 1:2000 100m



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

nhc northwest hydraulic consultants

wsp

June 2022



FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 10

KEYPLAN

0 20 1:2000 100m

LEGEND

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

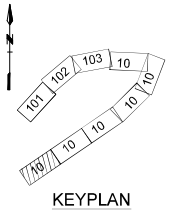
nhc northwest hydraulic consultants

wsp

June 2022



FOR CONTINUATION SEE SHEET 10



KEYPLAN

0 20 1:2000 100m

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

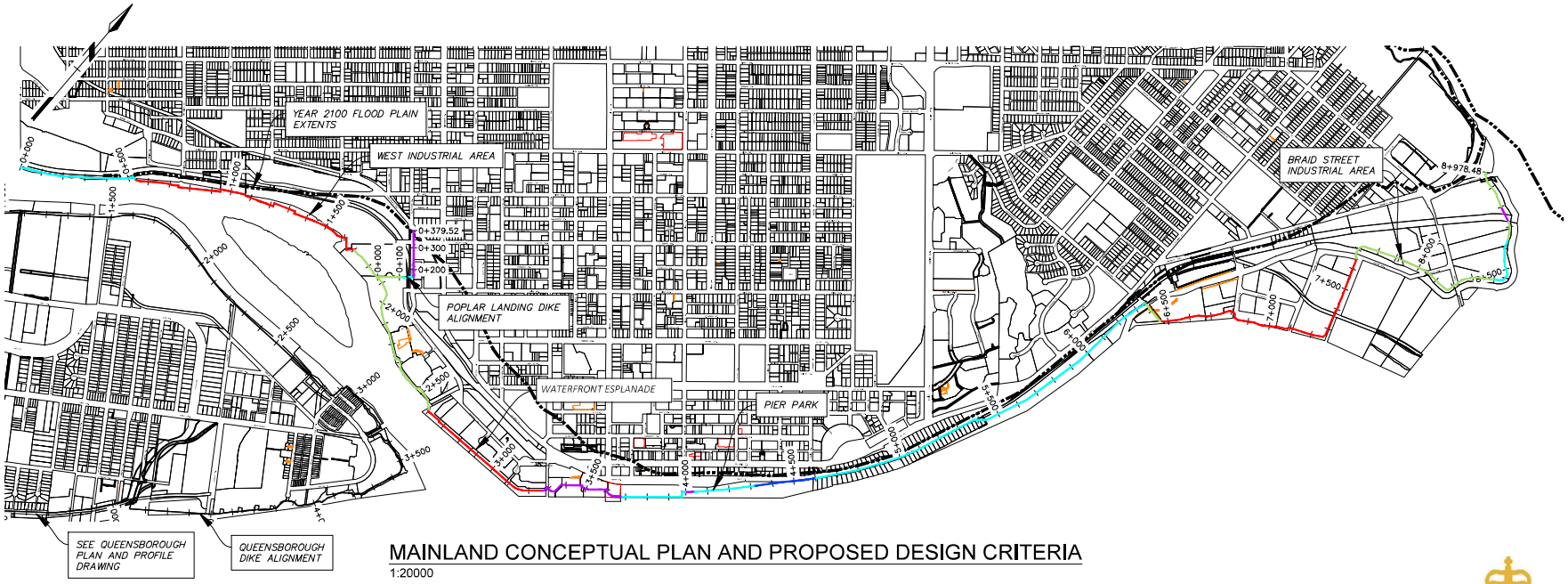
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Queensborough Plans of 10

nhc | northwest hydraulic consultants

wsp

June 2022



MAINLAND CONCEPTUAL PLAN AND PROPOSED DESIGN CRITERIA

1:20000

LEGEND

- EARTH DIKE TO 2050 DCL
- EARTH DIKE TO 2100 DCL
- FLOOD WALL TO 2050 DCL
- FLOOD WALL TO 2100 DCL
- NO FLOOD PROTECTION PROPOSED

0 200 1:20 000 1000m

NEW WESTMINSTER

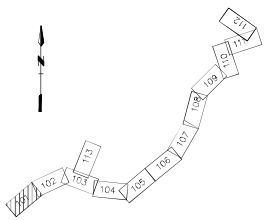
Floodplain Management Strategy Update
Feasibility Plan
Mainland
Plan

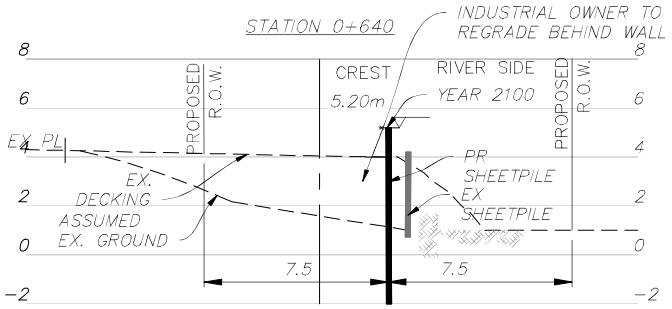
August 2022

nhc northwest hydraulic consultants

wsp







LEGEND

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

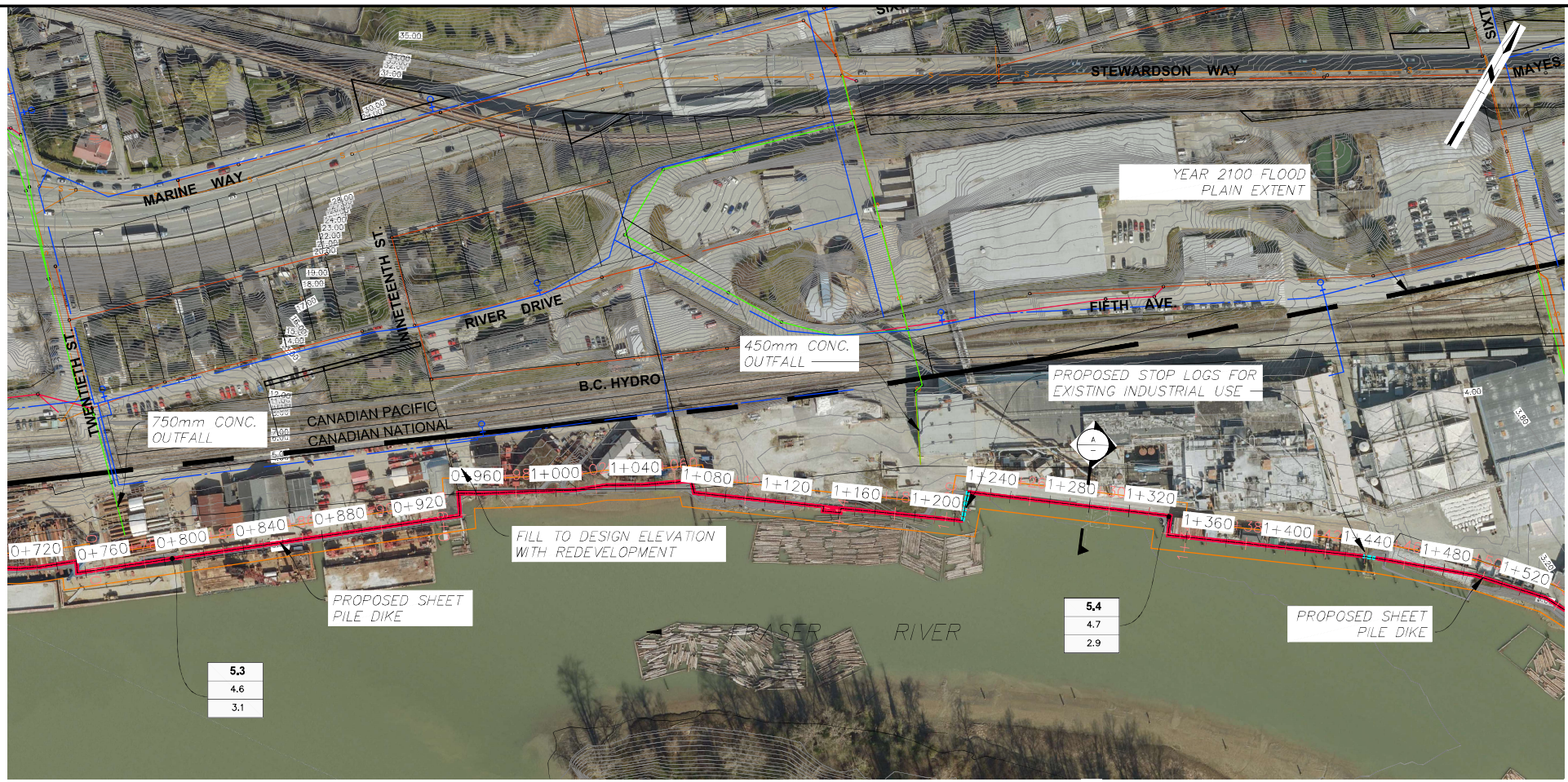
NEW WESTMINSTER

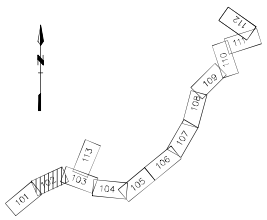
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 1 of 13
M101

nhc northwest hydraulic consultants

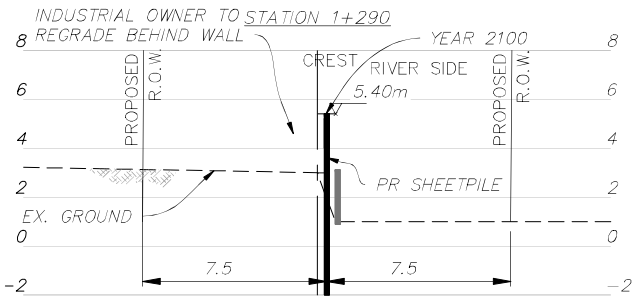
wsp

August 2022





0 20 1:2000 100m



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 2 of 13
M102

nhc | northwest hydraulic consultants

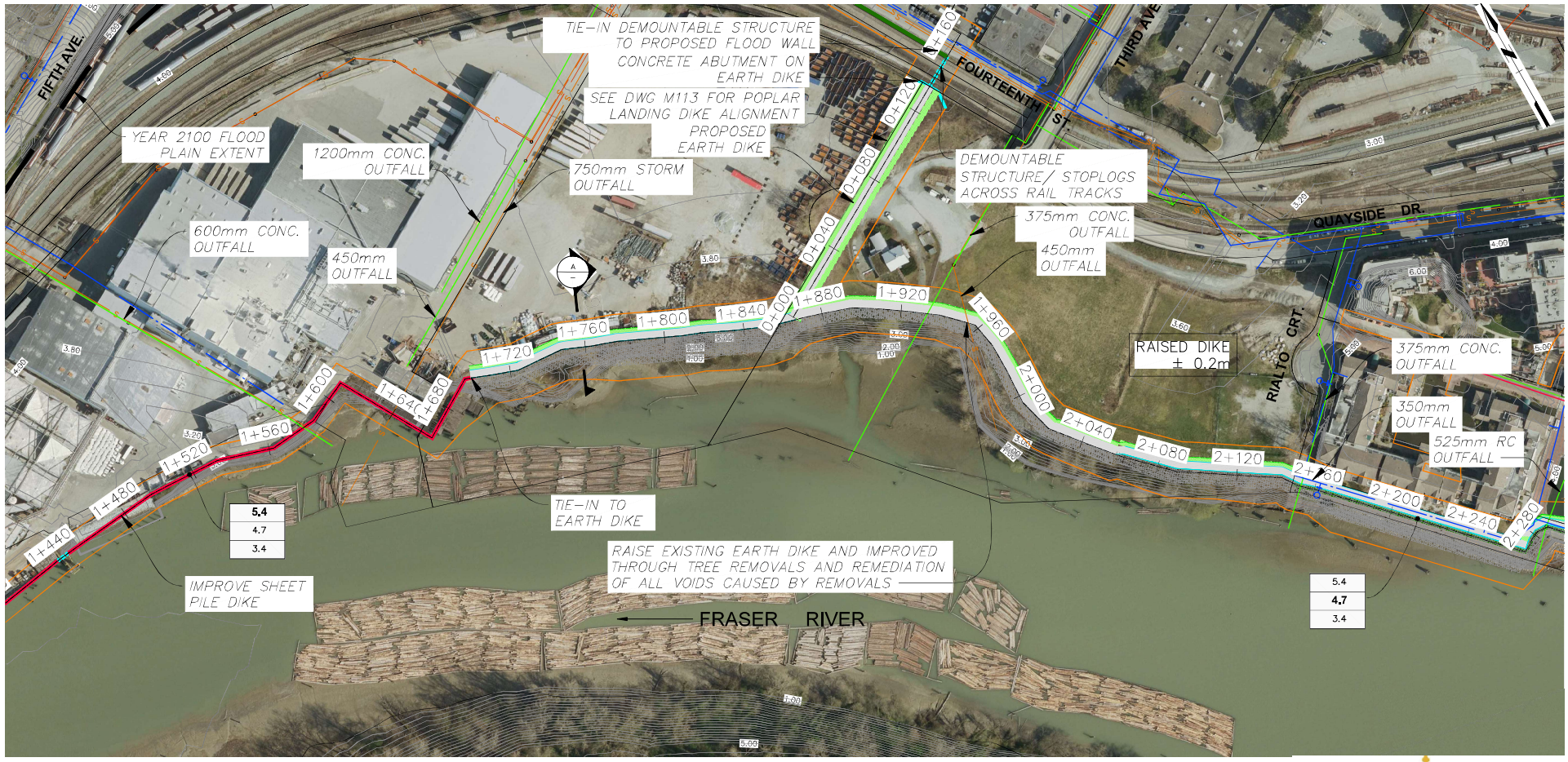
August 2022

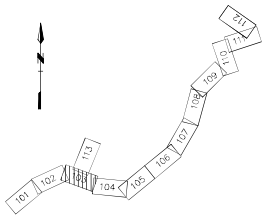
wsp

FOR CONTINUATION SEE S EET M113

FOR CONTINUATION SEE S EET M102

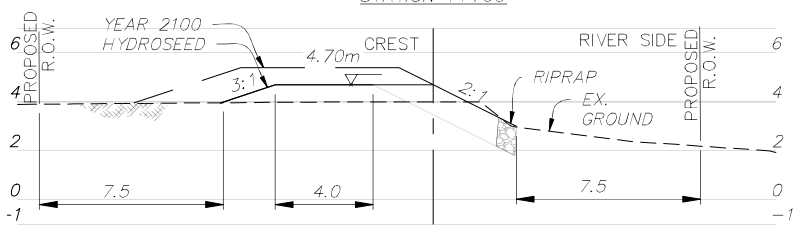
FOR CONTINUATION SEE S EET M10





0 20 1:2000 100m

STATION 1+760



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

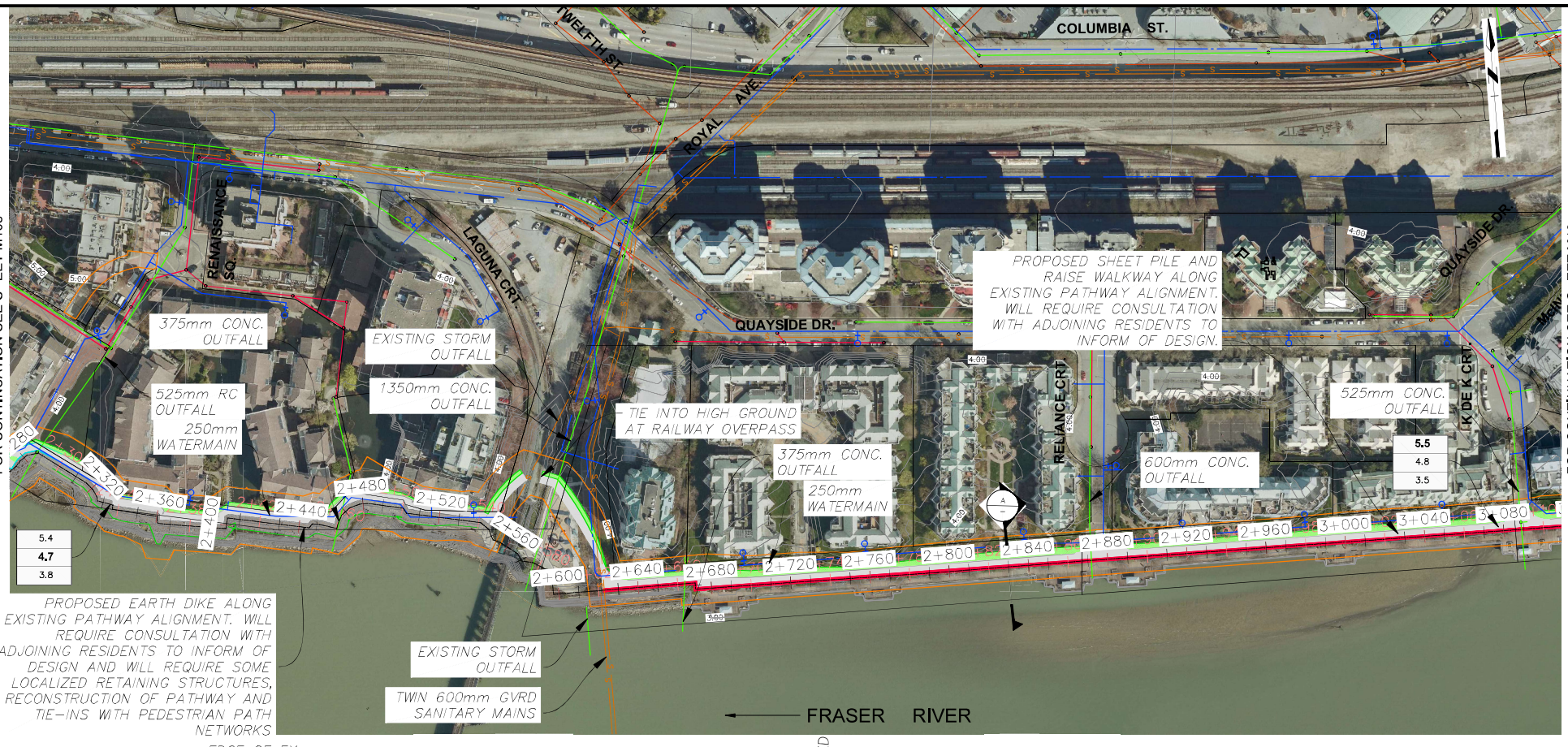
NEW WESTMINSTER

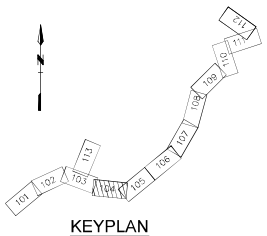
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 3 of 13
M103

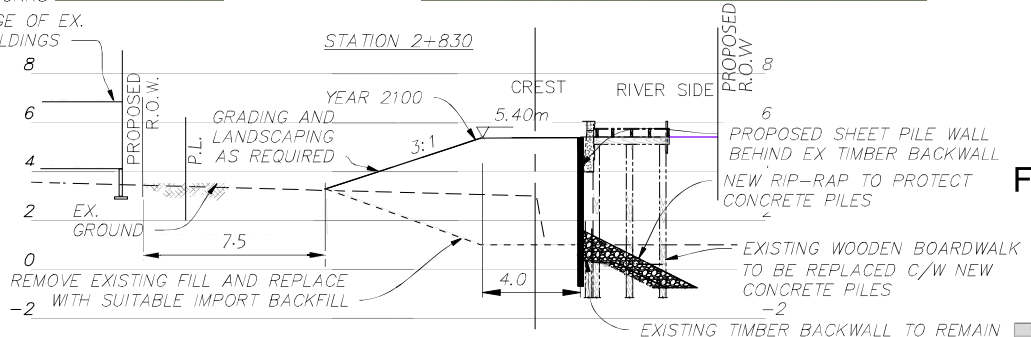
nhc northwest hydraulic consultants

August 2022

wsp







SECTION A-A
1:200

0 20 1:2000 100m

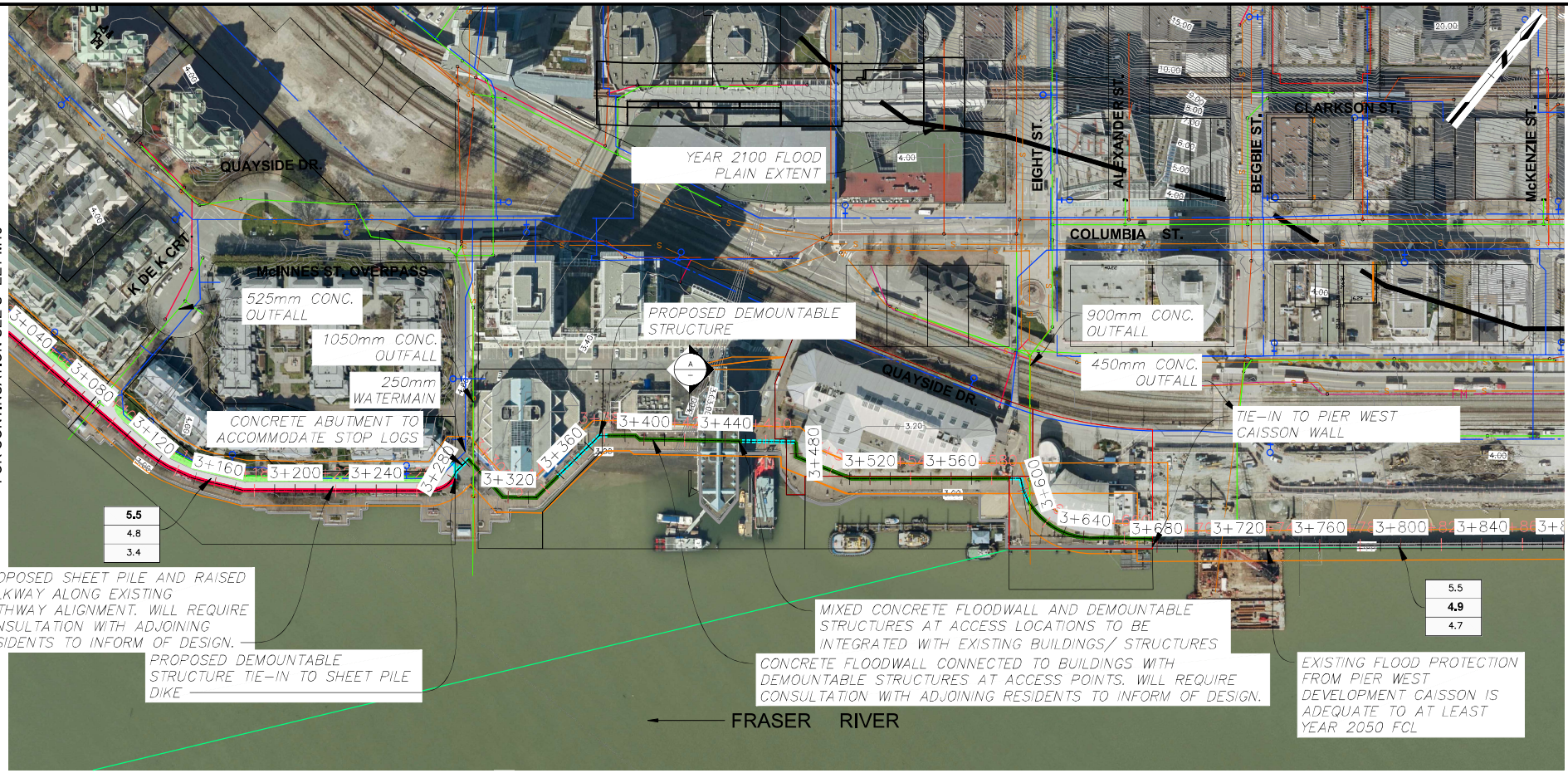
LEGEND
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

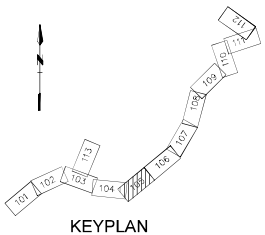
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

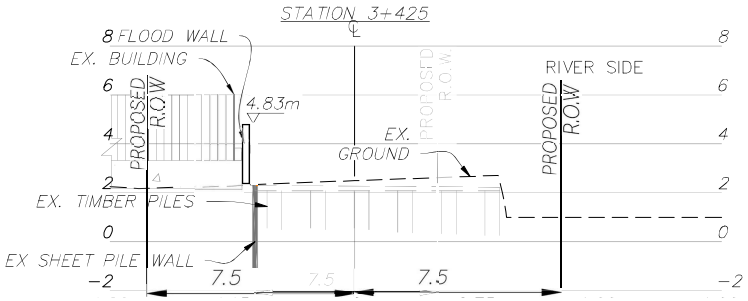
nhc northwest hydraulic consultants | wsp

August 2022





0 20 1:2000 100m



SECTION A-A
1:200

LEGEND
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

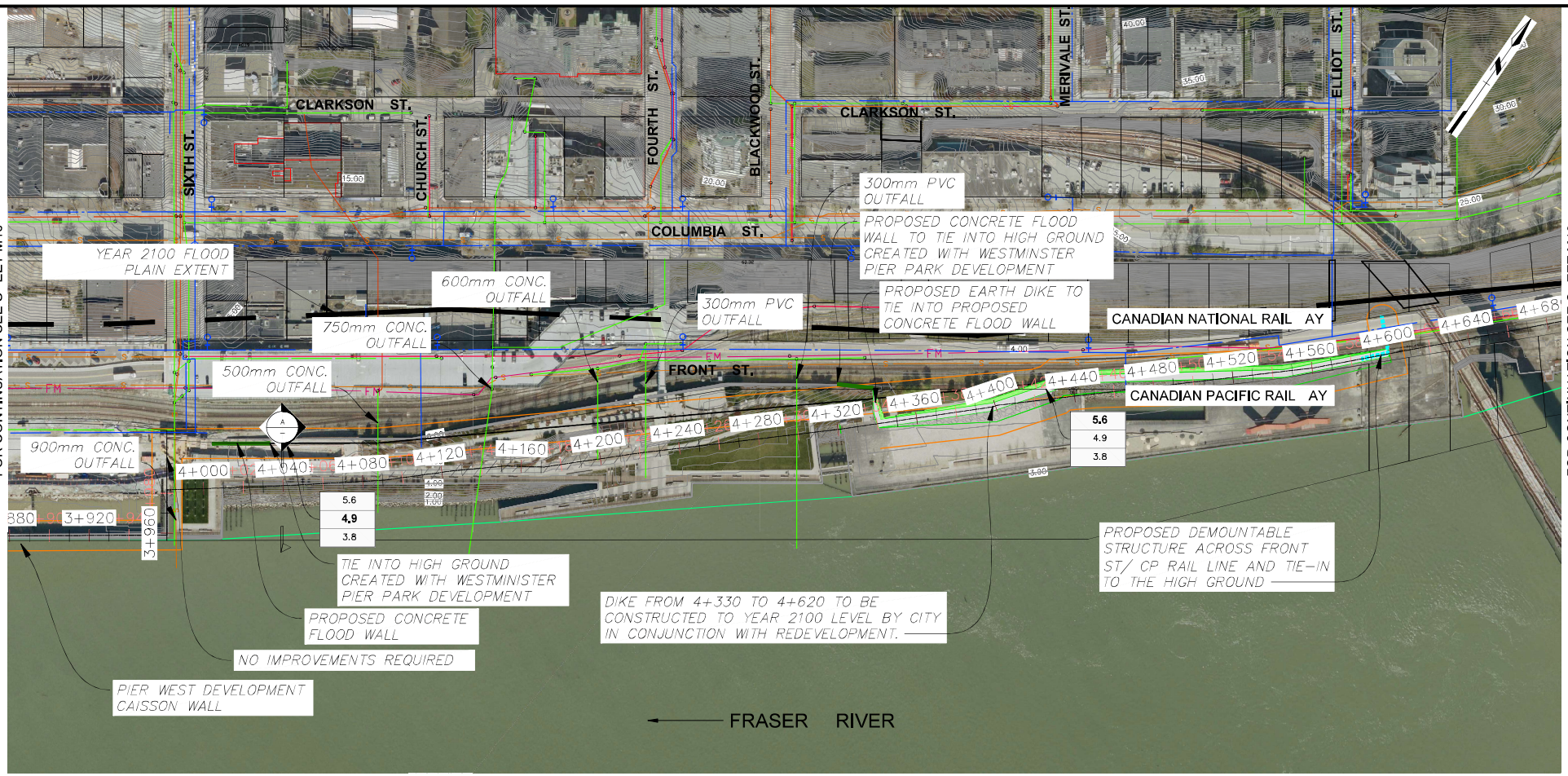
NEW WESTMINSTER

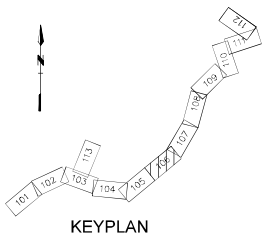
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

nhc northwest hydraulic consultants

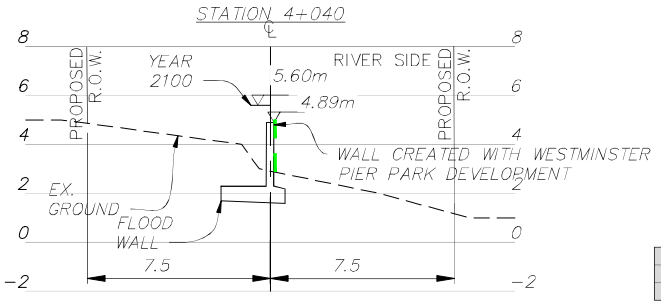
wsp

August 2022





0 20 1:2000 100m



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD) YEAR 2100 EXTENT OF FLOOD PLAIN

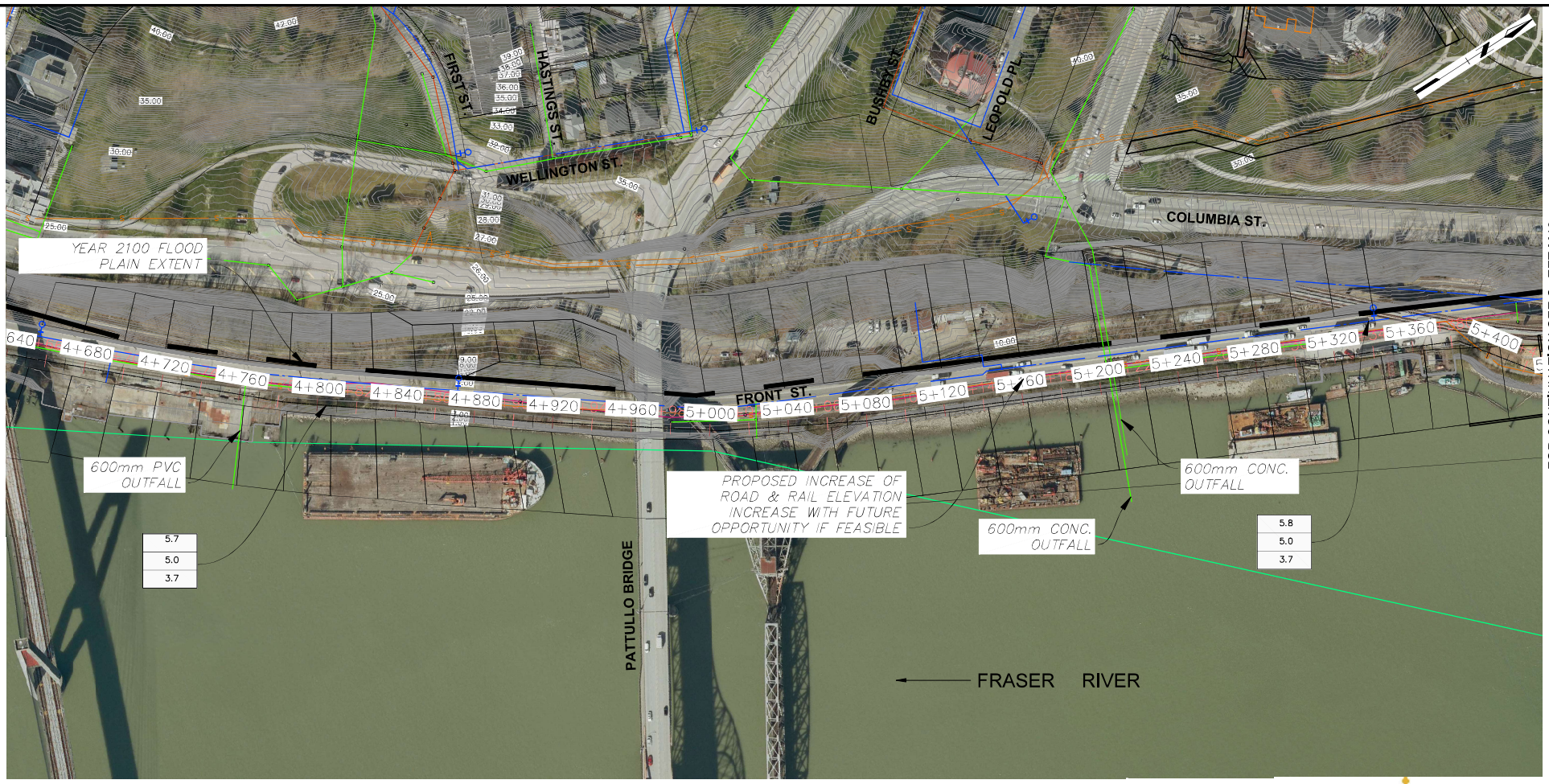
NEW WESTMINSTER

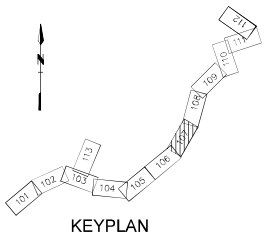
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

nhc | northwest hydraulic consultants

August 2022

wsp





0 20 1:2000 100m

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)

YEAR 2100 EXTENT OF FLOOD PLAIN

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

nhc | northwest hydraulic consultants

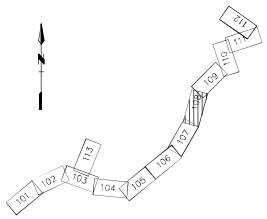
August 2022

wsp



FOR CONTINUATION SEE SHEET M10

FOR CONTINUATION SEE SHEET M10



KEYPLAN

0 20 1:2000 100m

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)

YEAR 2100 EXTENT OF FLOOD PLAIN

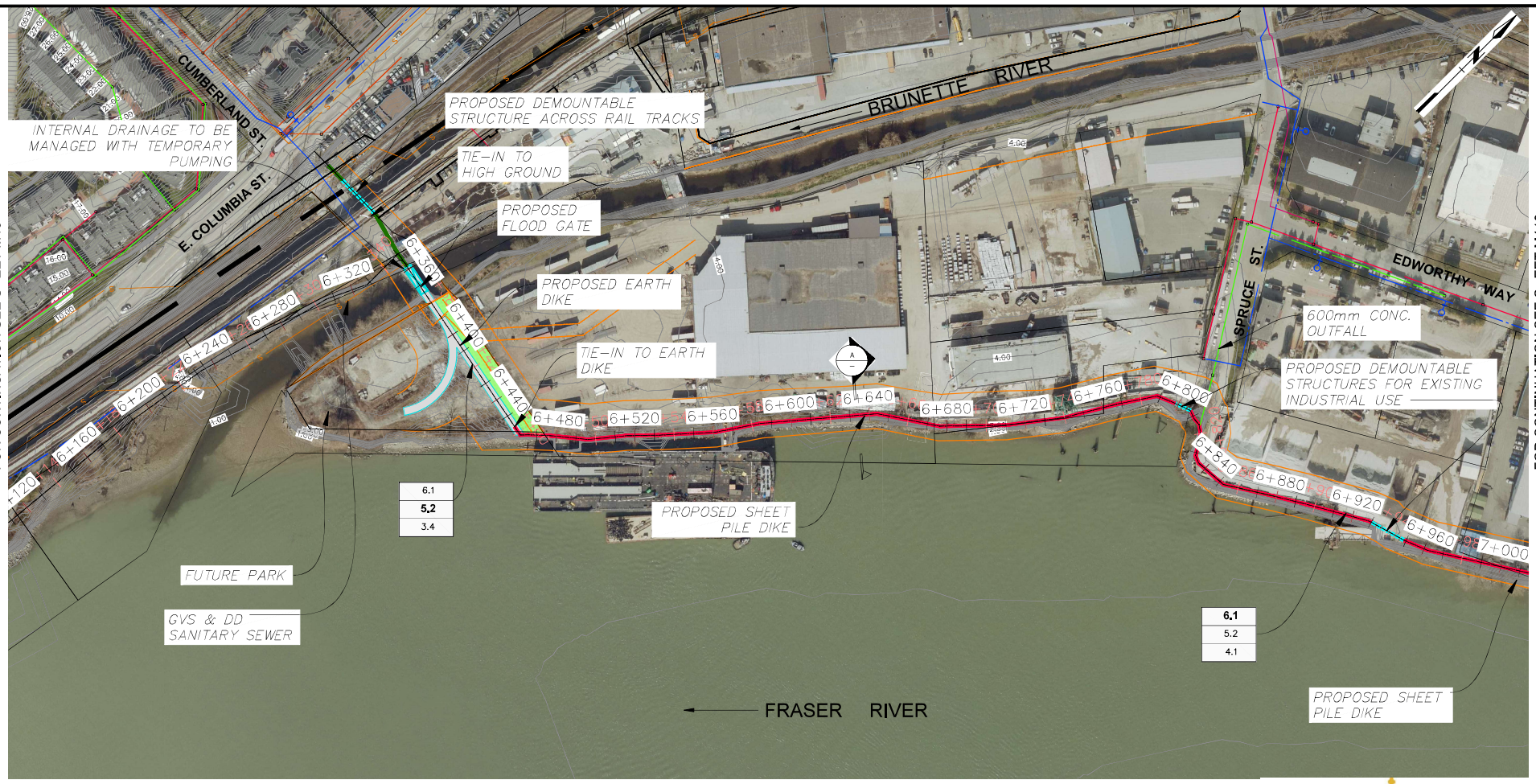
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

nhc | northwest hydraulic consultants

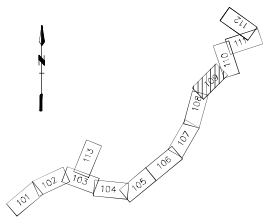
August 2022

wsp

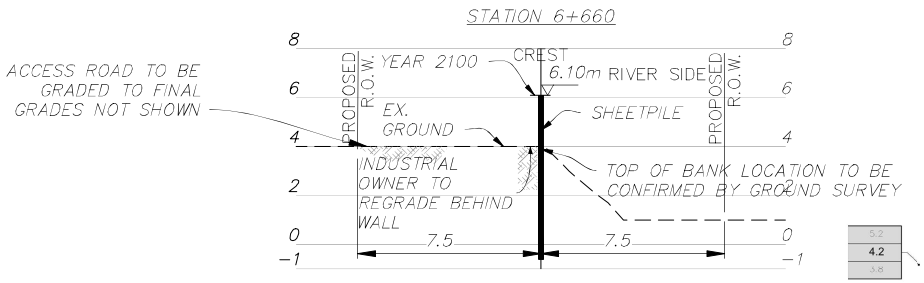


FOR CONTINUATION SEE S EET M10

FOR CONTINUATION SEE S EET M110



0 20 1:2000 100m



LEGEND

5.2 PROPOSED ELEVATION YEAR 2100
4.2 PROPOSED ELEVATION YEAR 2050
3.8 EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

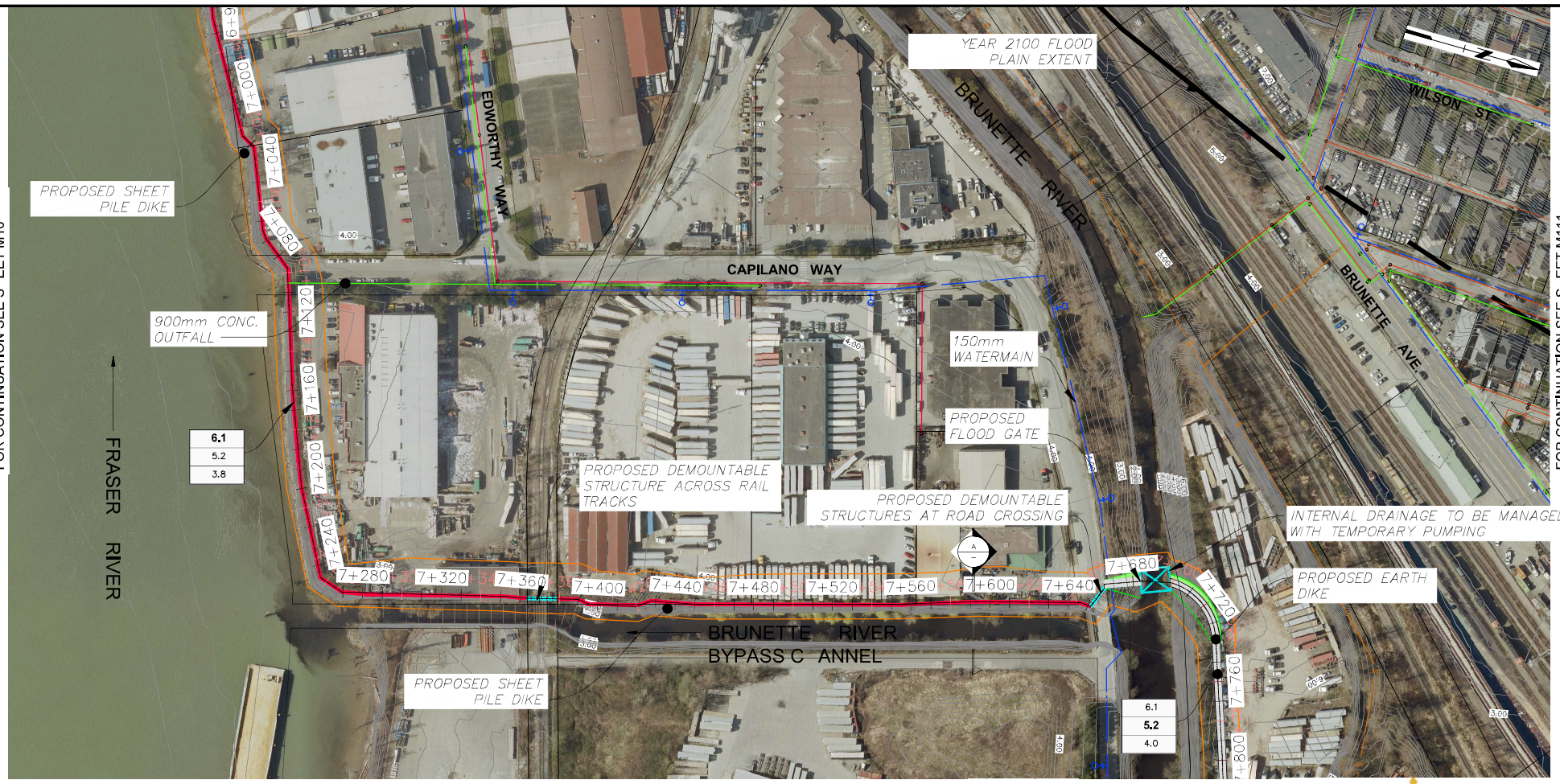
NEW WESTMINSTER

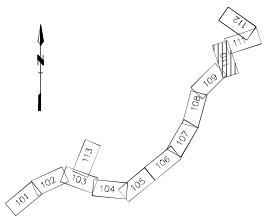
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans of 13
M10

nhc | northwest hydraulic consultants

August 2022

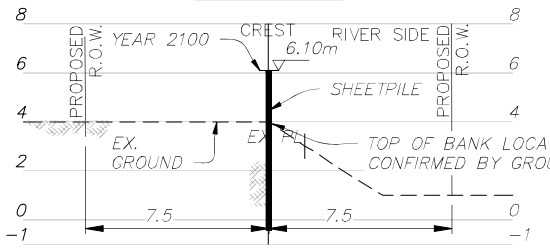
wsp





0 20 1:2000 100m

STATION 7+630



SECTION A-A
1:200

LEGEND



PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

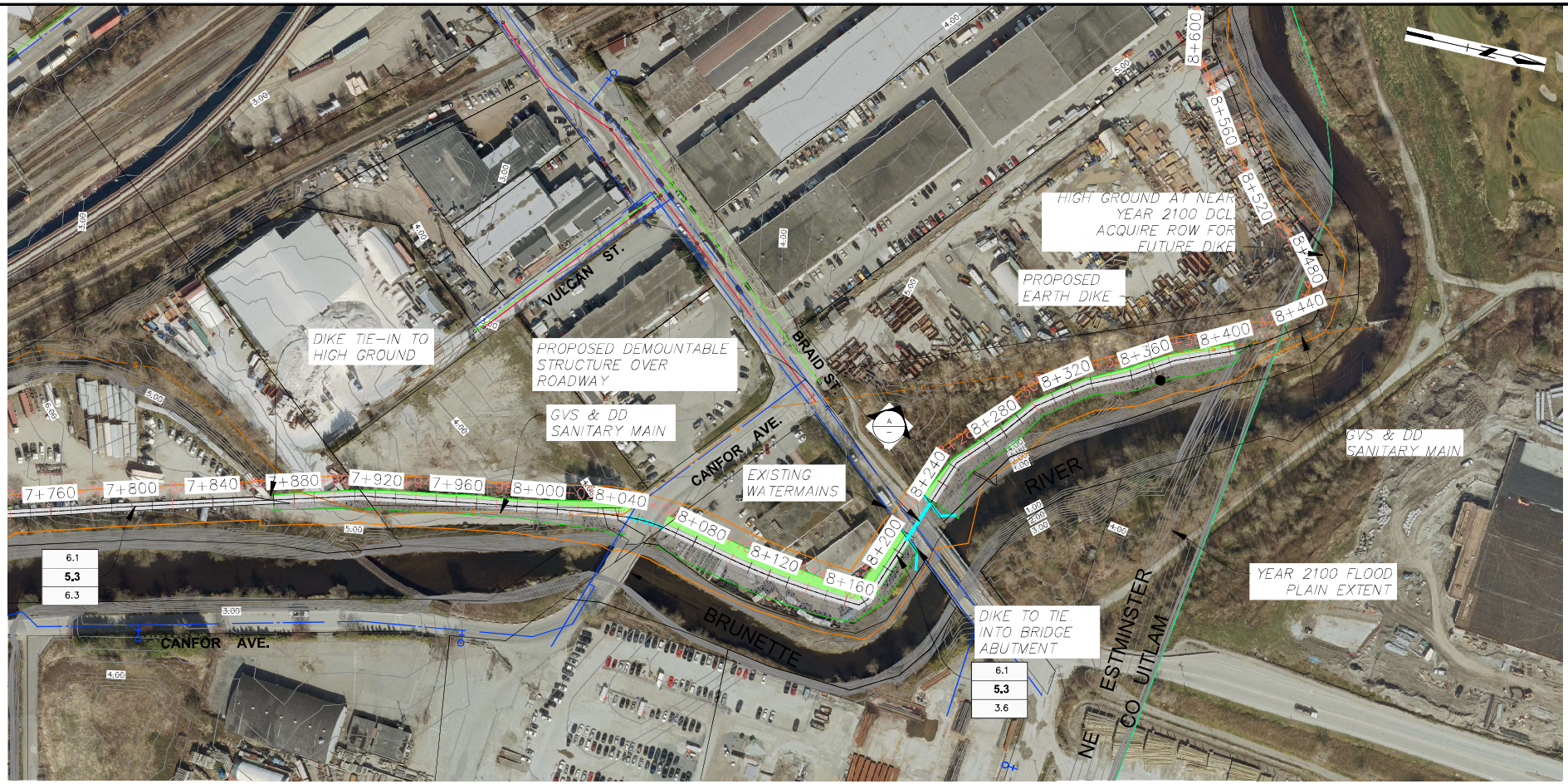
NEW WESTMINSTER

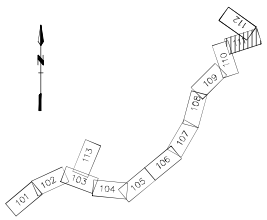
Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 10 of 13
M110

nhc | northwest hydraulic consultants

wsp

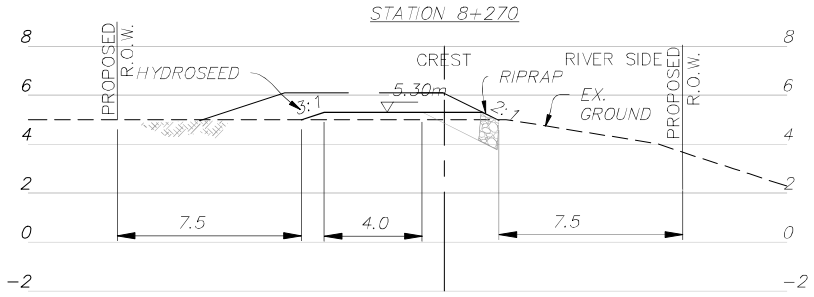
August 2022





0 20 1:2000 100m

STATION 8+270



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

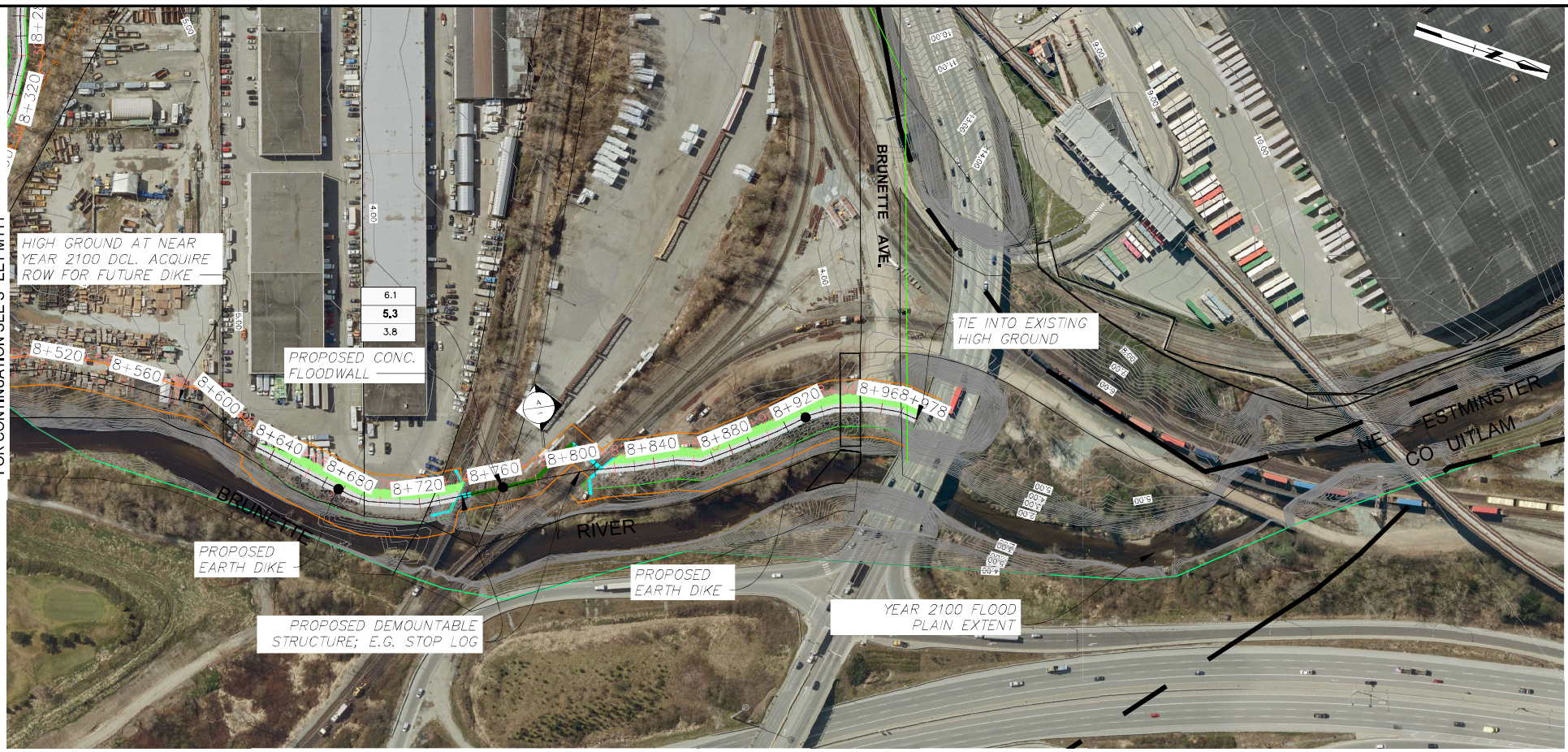
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

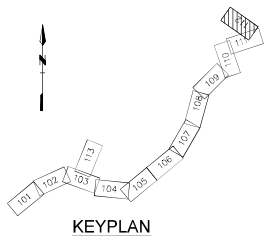
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 11 of 13
M111

nhc | northwest hydraulic consultants
August 2022

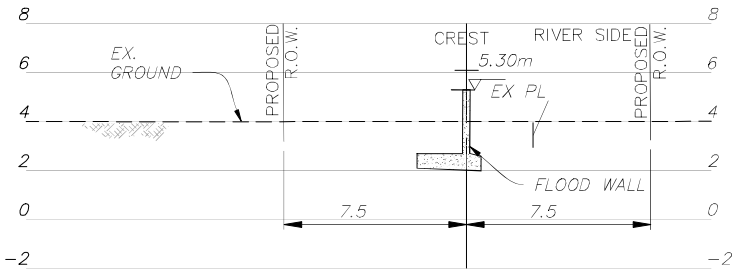
wsp





0 20 1:2000 100m

STATION 8+800



SECTION A-A
1:200

LEGEND

5.2
4.2
3.8

PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

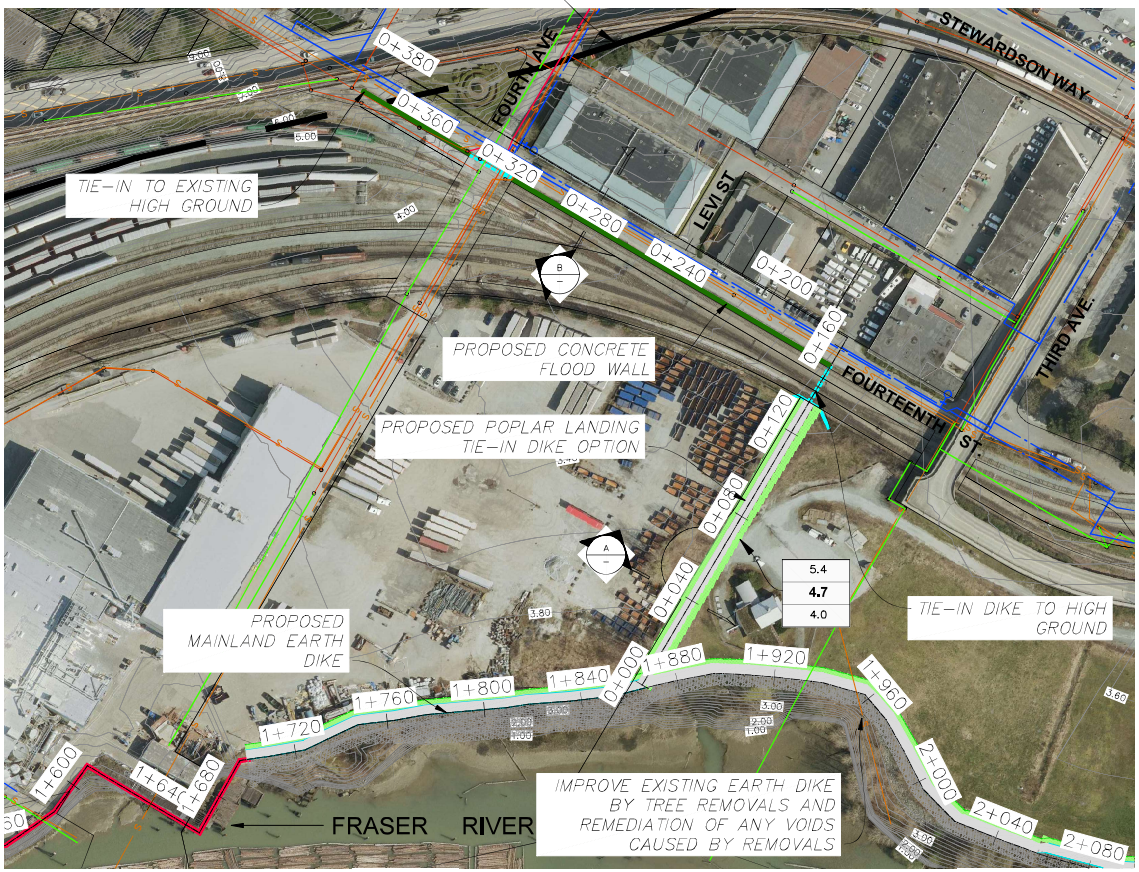
PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

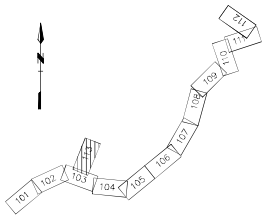
NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 12 of 13
M112

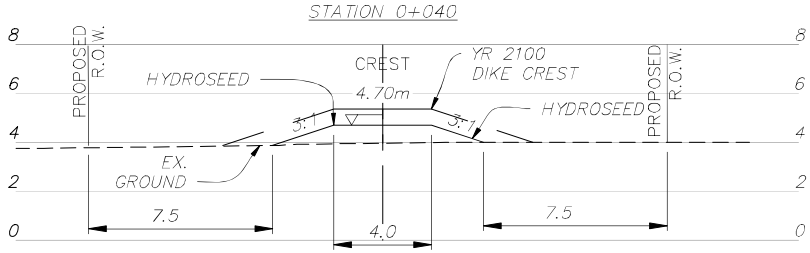
nhc | northwest hydraulic consultants
August 2022

wsp

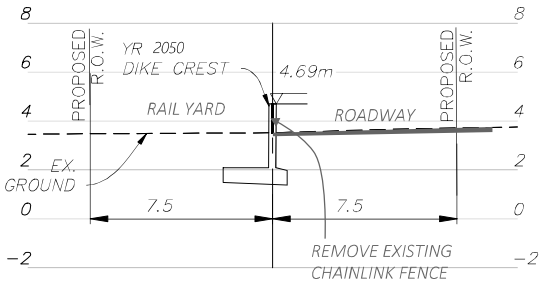




0 20 1:2000 100m



SECTION A-A
1:200



SECTION B-B
1:200

NEW WESTMINSTER

Floodplain Management Strategy Update
Feasibility Plan
Mainland Plans 13 of 13
M113

LEGEND

5.2
4.2
3.8
PROPOSED ELEVATION YEAR 2100
PROPOSED ELEVATION YEAR 2050
EXISTING ELEVATION

PROPOSED DCL (FRASER FLOOD LEVEL + FREEBOARD)
YEAR 2100 EXTENT OF FLOOD PLAIN

nhc | northwest hydraulic consultants
wsp

August 2022