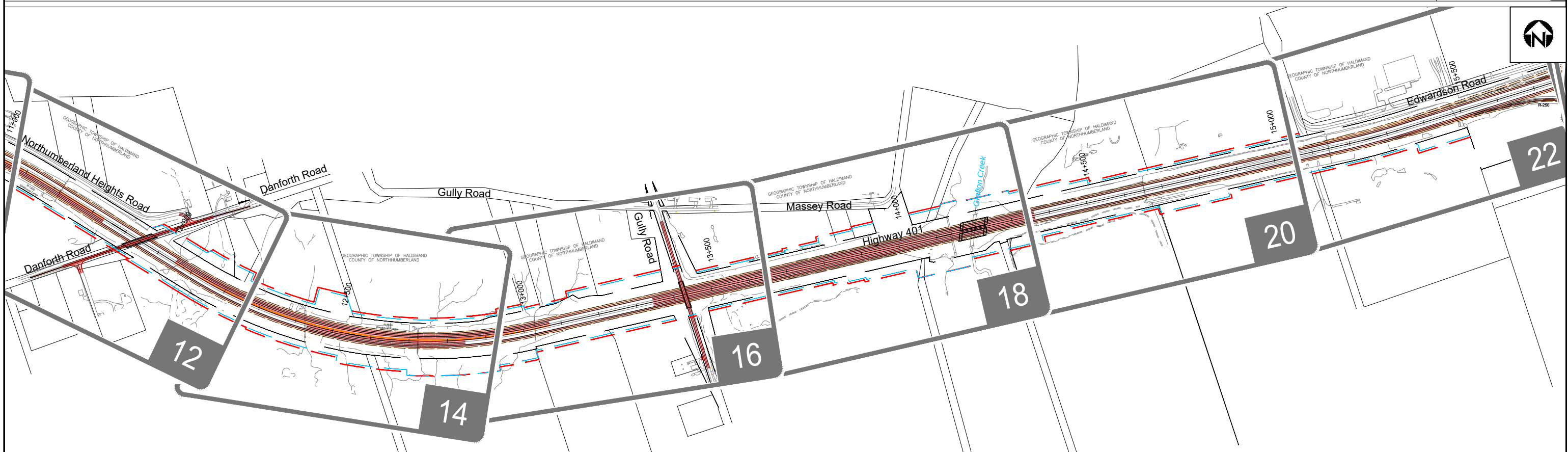
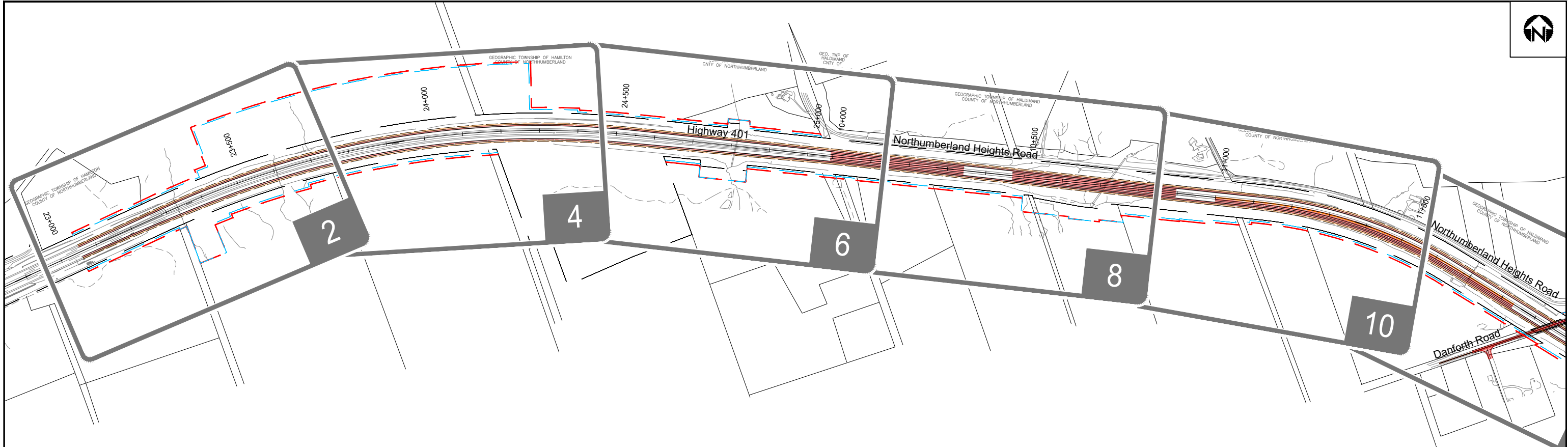


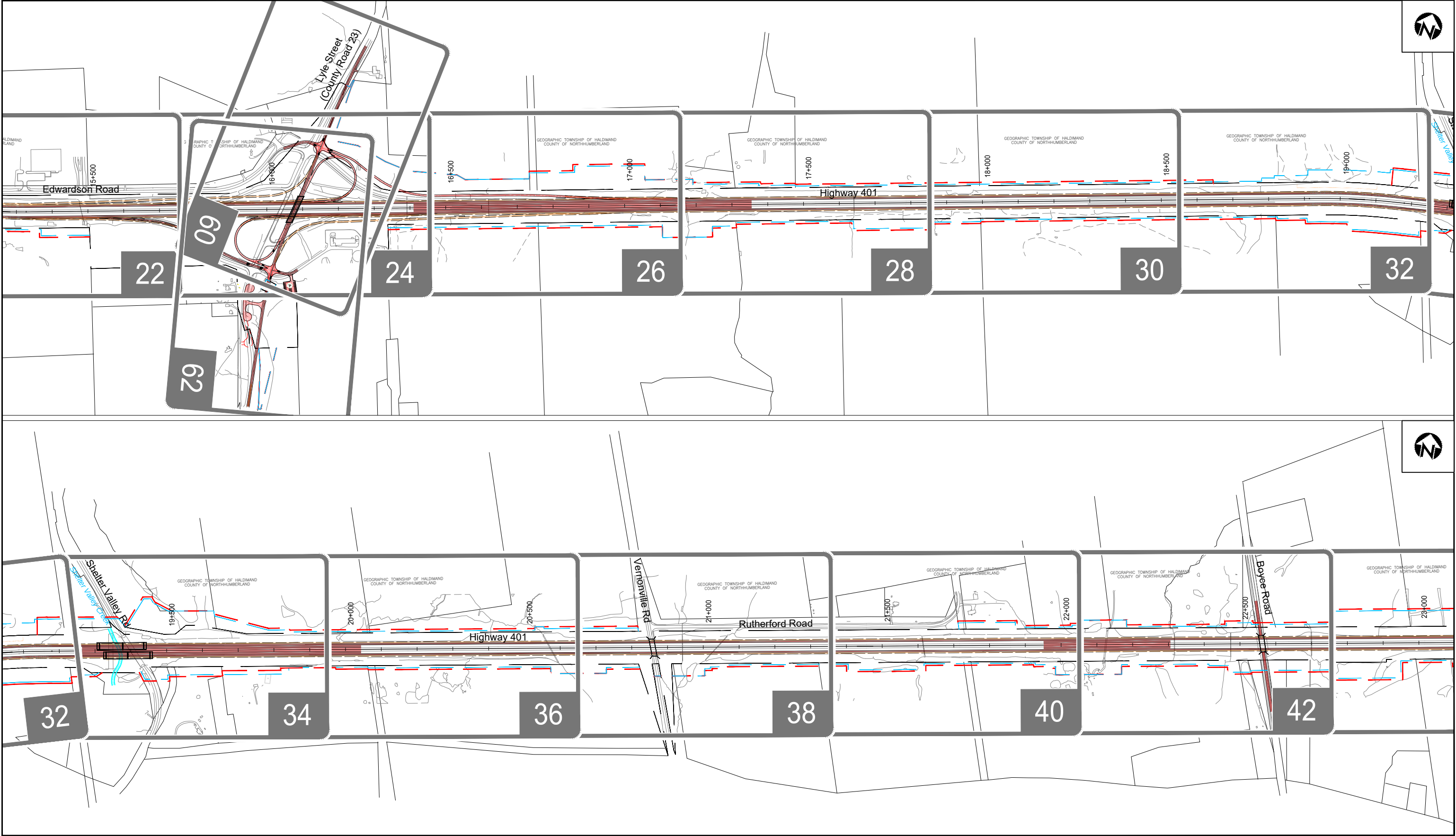


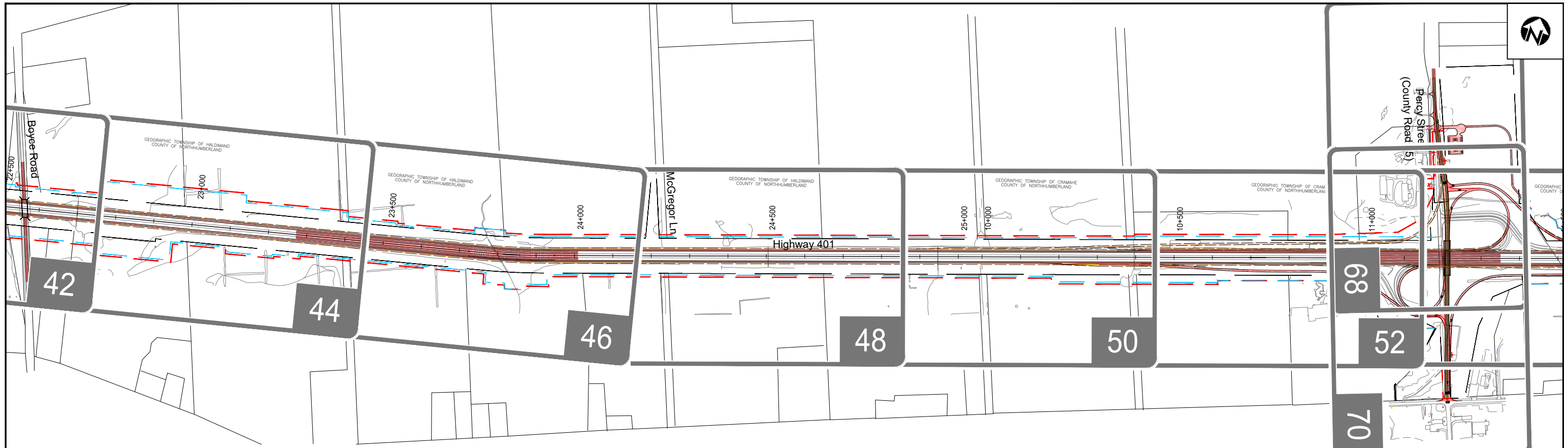
Highway 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

100 m
1:10,000

Key Plan
HIGHWAY 401

SHEET
1





Highway 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

100 m
1:10,000

Key Plan
HIGHWAY 401

SHEET
iii

LEGEND

BASE PLAN & DESIGN PLAN

- Existing MTO Right-of-Way
- Rehabilitate Existing Roadway - Interim (Future 6-lanes)
- New Roadway - Interim (Future 6-lanes)
- New Roadway - Ultimate (Future 8-lanes)
- Property Required - Interim (Future 6-lanes)
- Property Required - Ultimate (Future 8-lanes)
- Property Fabric (Approximate based on Assessment Mapping)
- Proposed Retaining Wall
- Municipal Township Boundary
- Bike Lane
- Existing Culvert
- New Culvert or Culvert Extension
- Existing Driveway to be Closed
- Property Acquisition
- Potential Stormwater Management Facility
- Proposed Carpool Lot

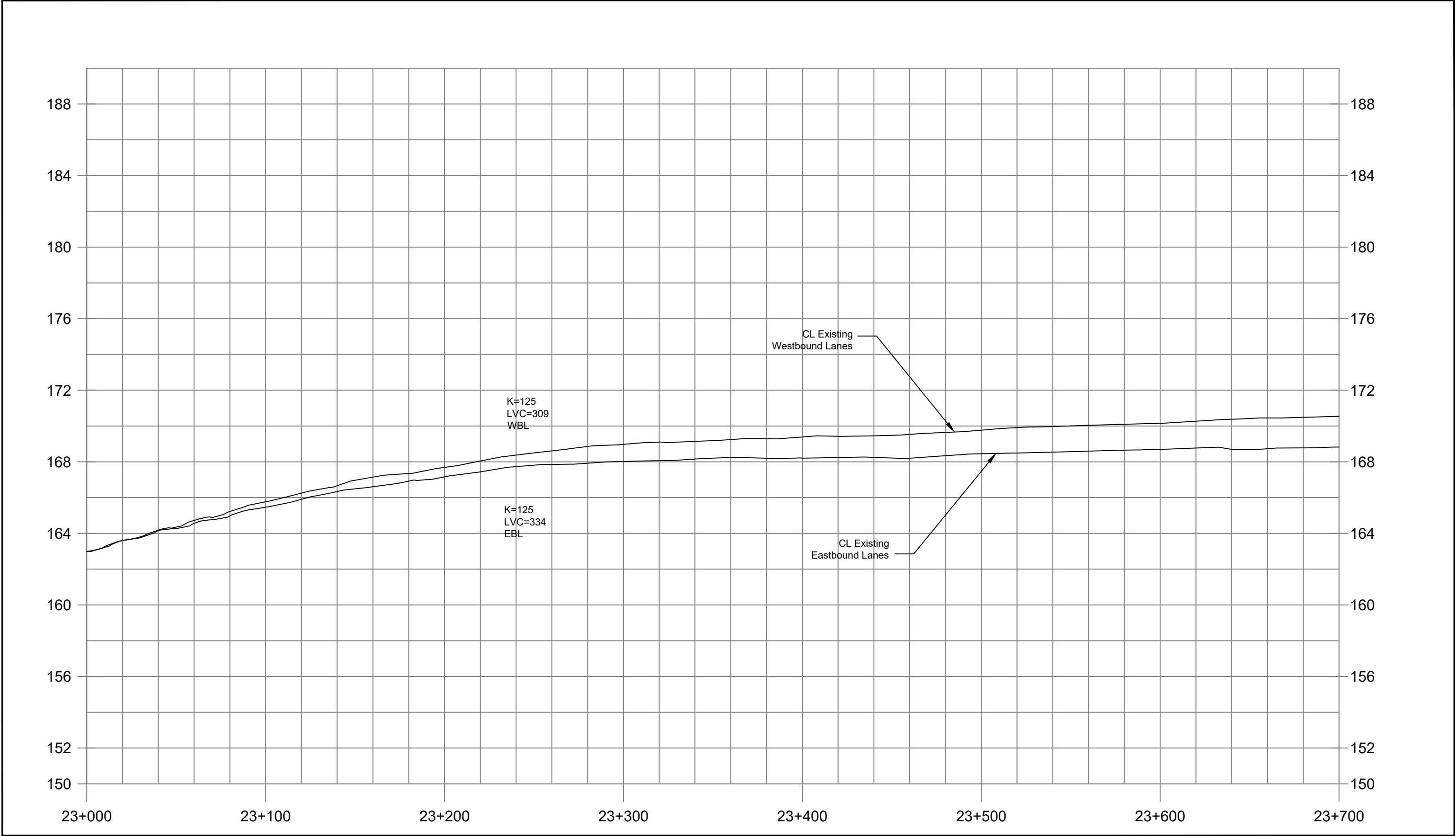
PROFILE PLANS

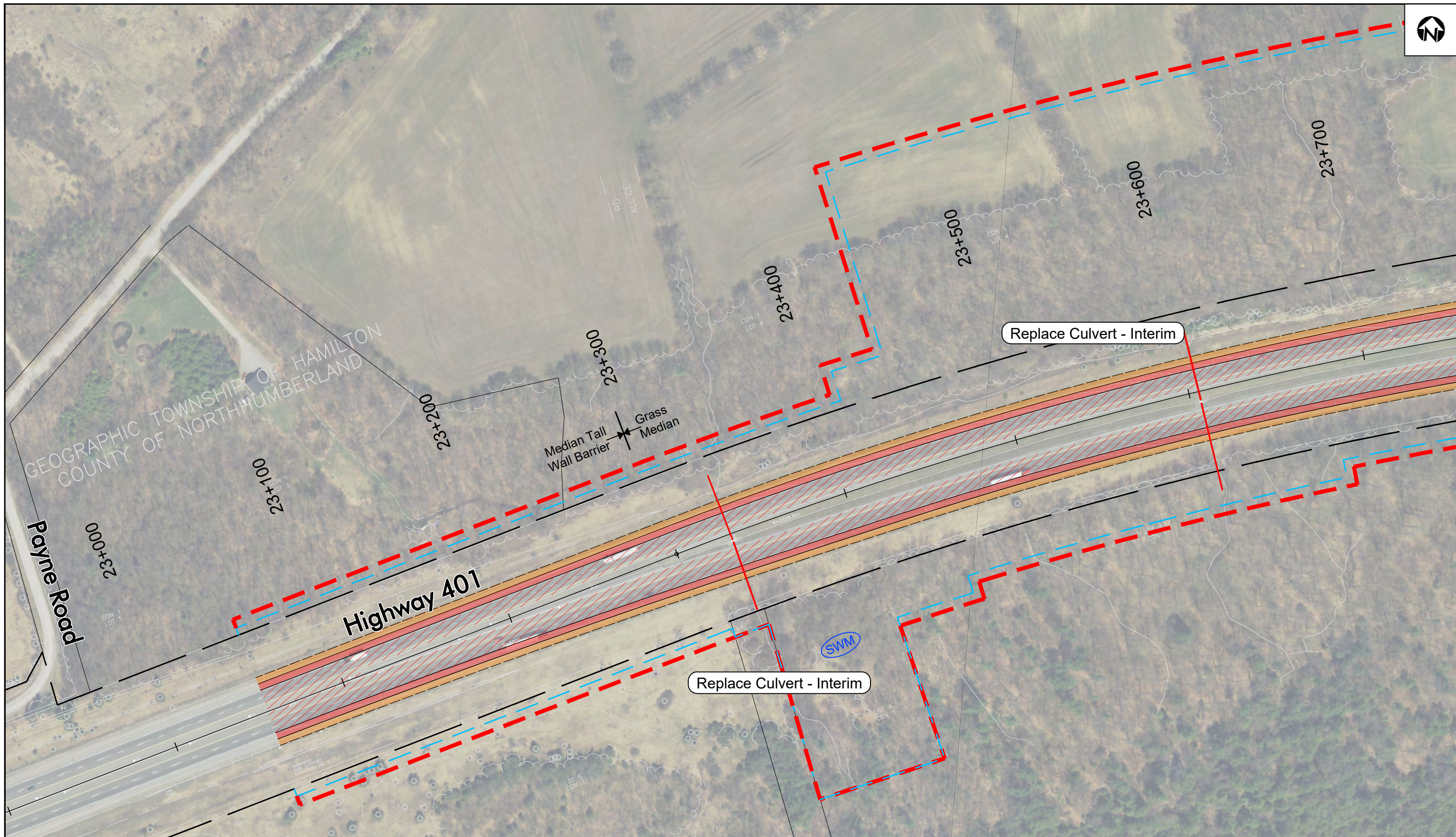
- Existing Ground Profile
- Existing Vertical Curve
- New Roadway Profile
- New Vertical Curve

EXISTING UTILITIES

- Overhead Bell
- Underground Bell
- Overhead Hydro
- Overhead Bell & Hydro
- Underground Union Gas
- Watermain
- Cell Tower





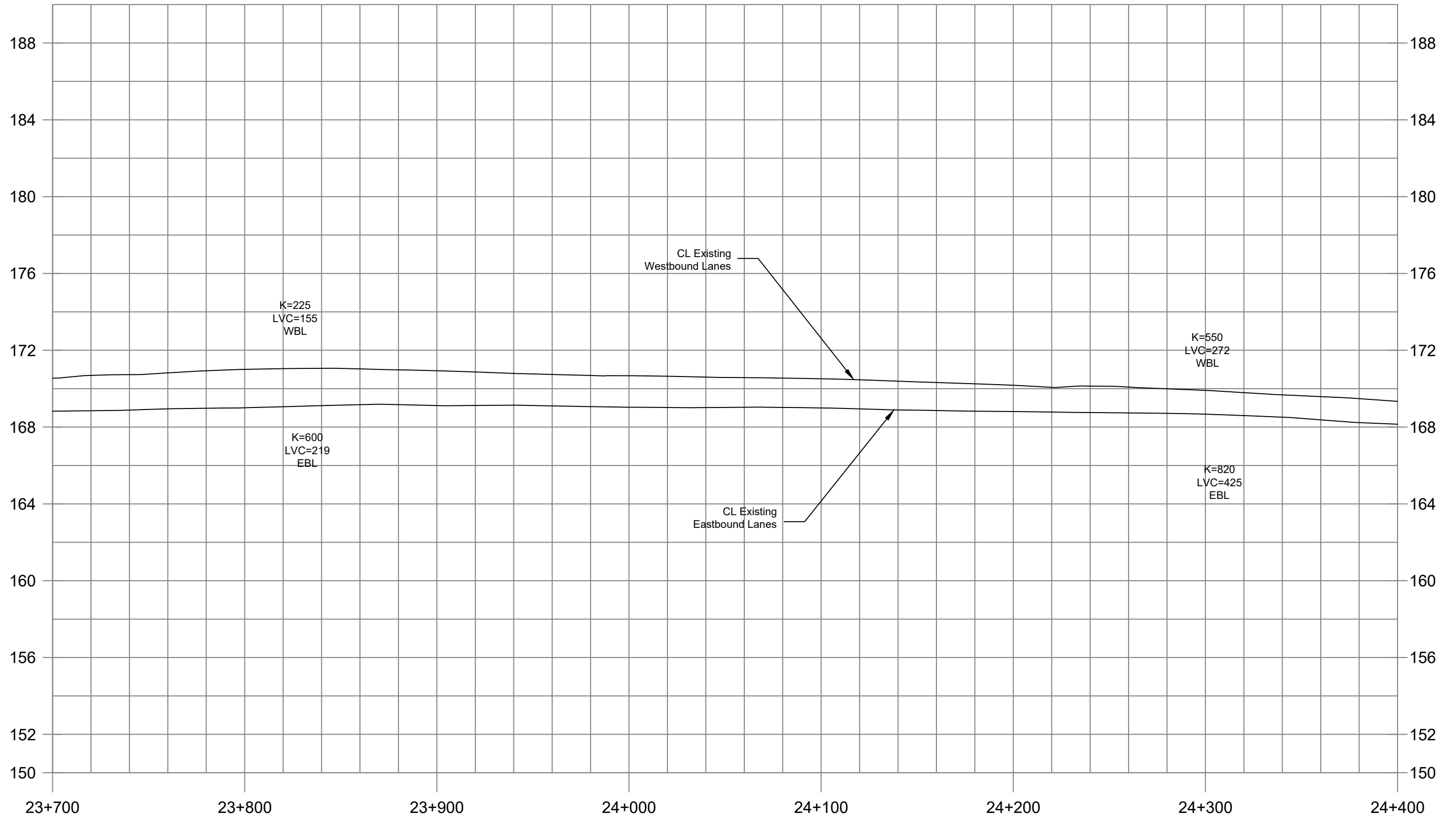


HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00

25 m
 1:2000

Recommended Plan
 HIGHWAY 401
 Sta 23+000 to Sta 23+700
 Hamilton Township

SHEET
2



SHEET

3

Recommended Profile

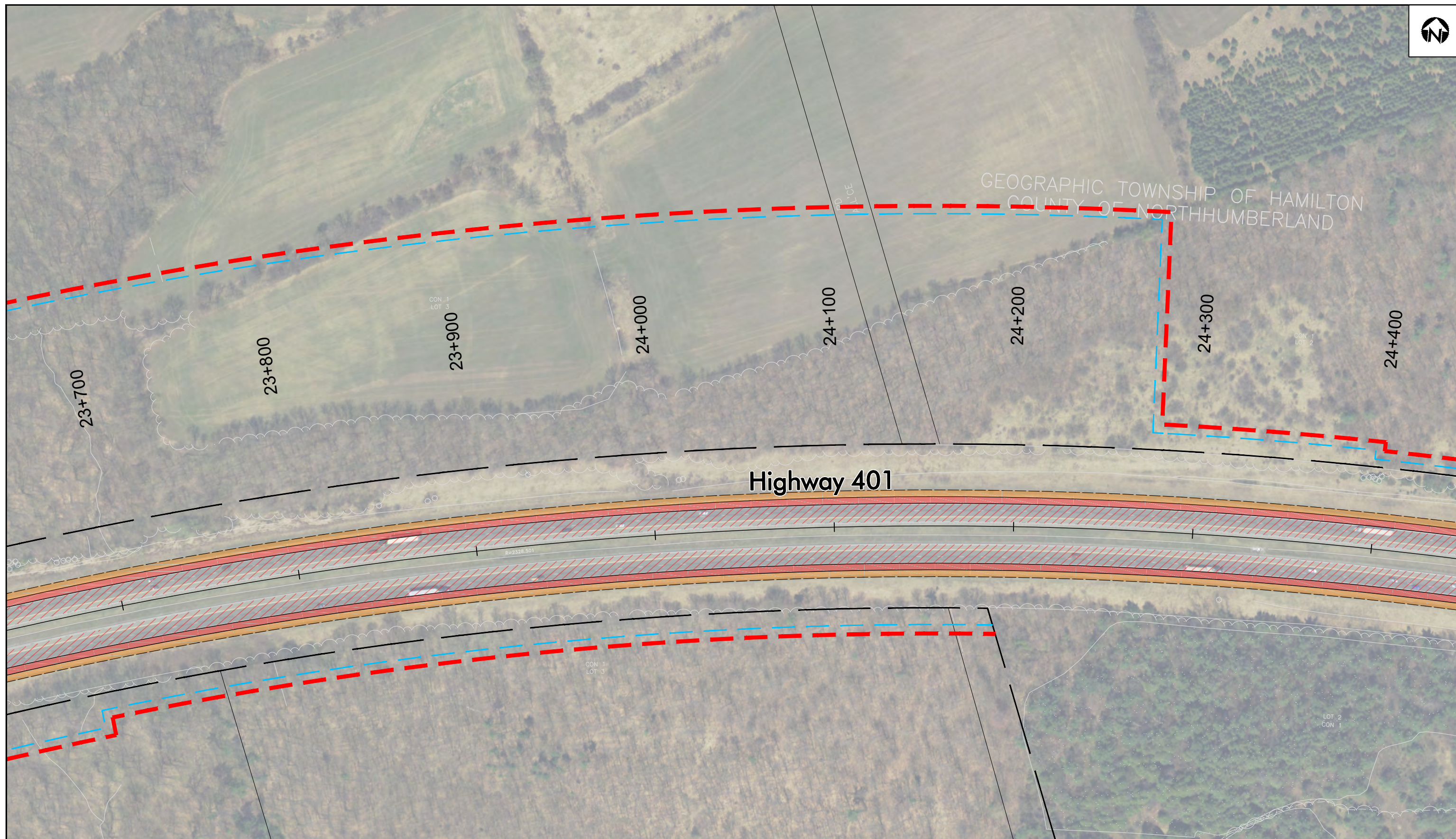
Highway 401
Sta 23+700 to Sta 24+400
Hamilton Township

HIGHWAY 401 Planning Study

from Cobourg to Colborne

Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



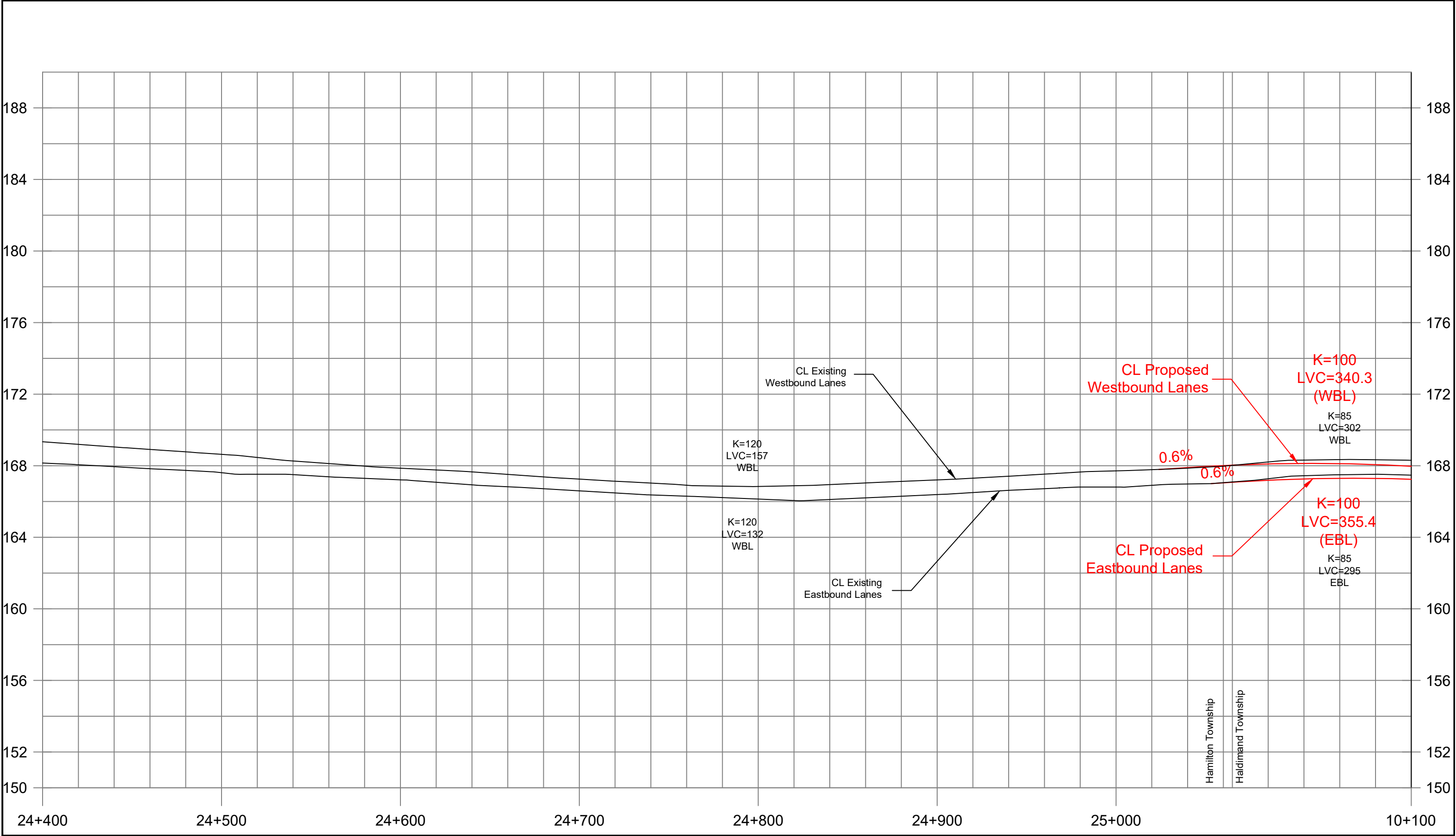


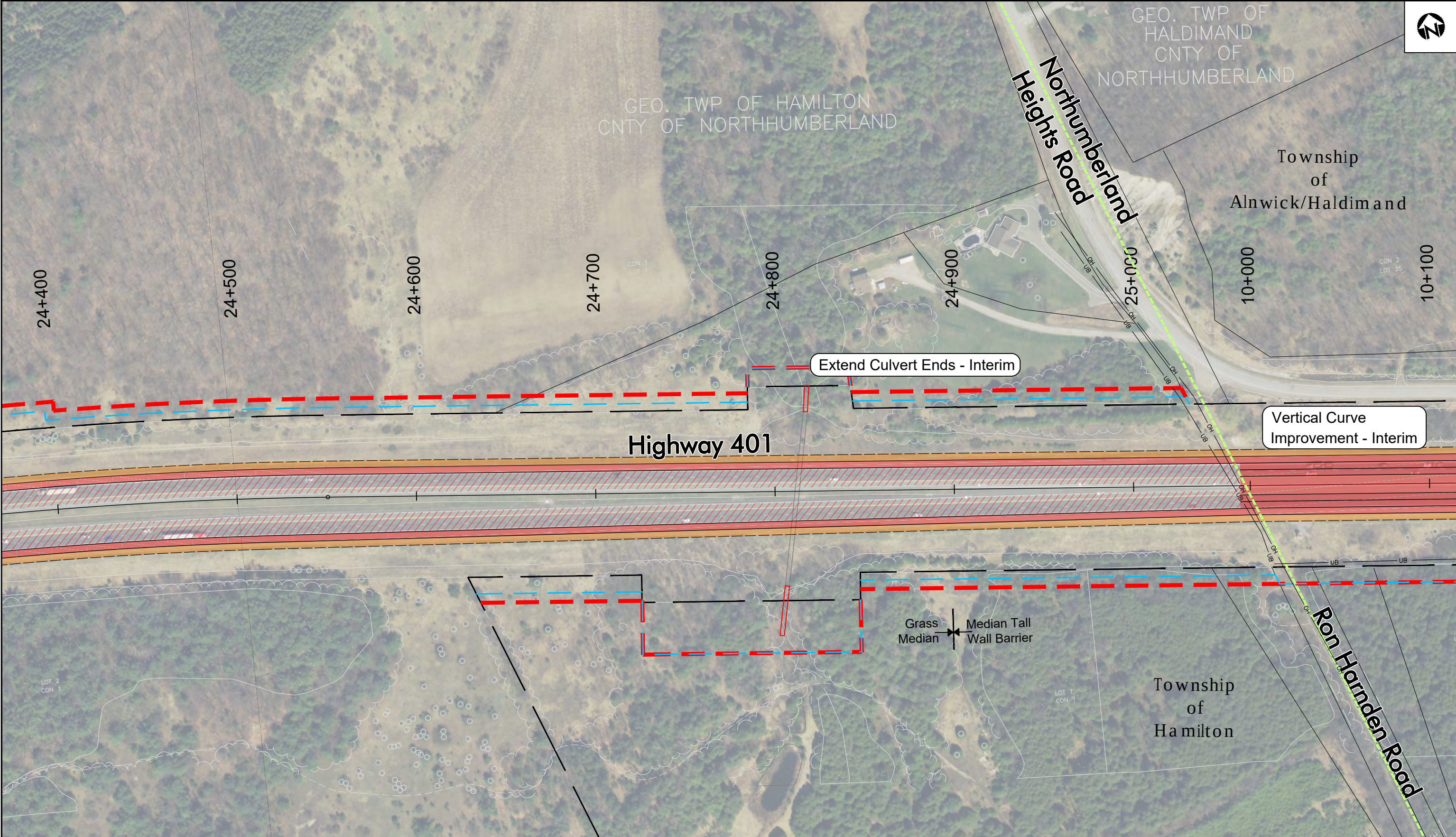
HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 23+700 to Sta 24+400
Hamilton Township

SHEET
4

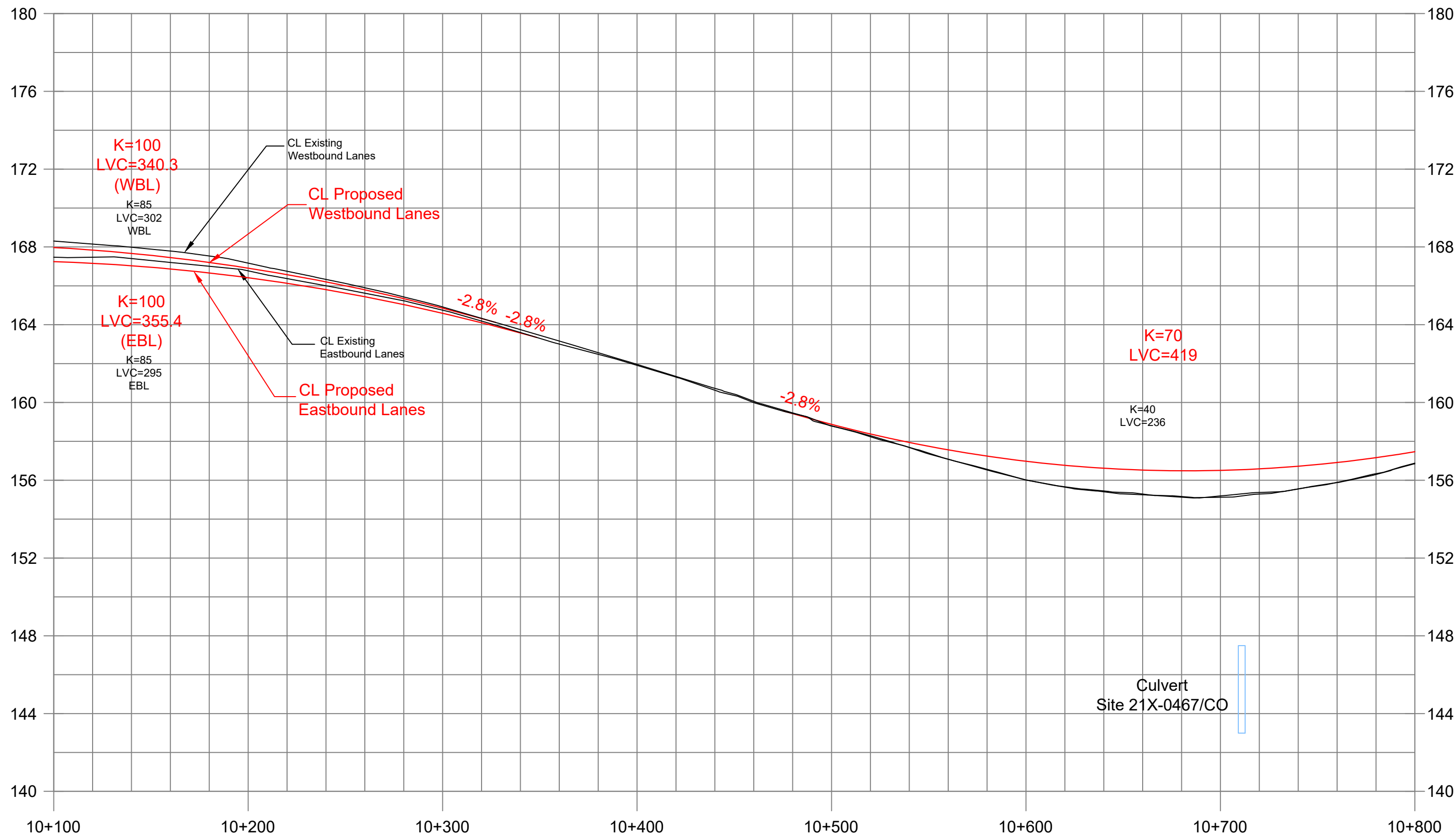


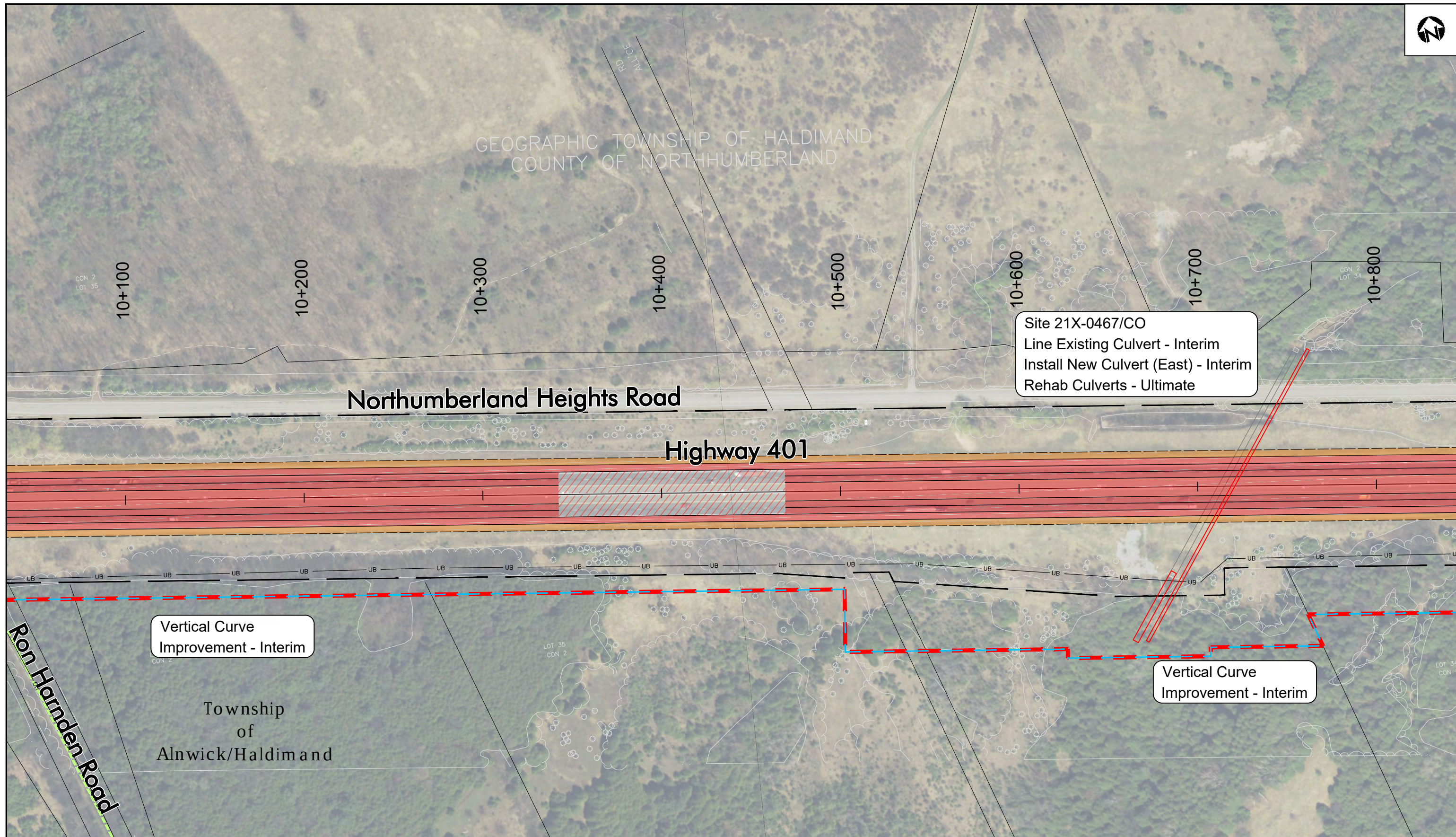


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 24+400 to Sta 10+100
Hamilton & Haldimand Townships



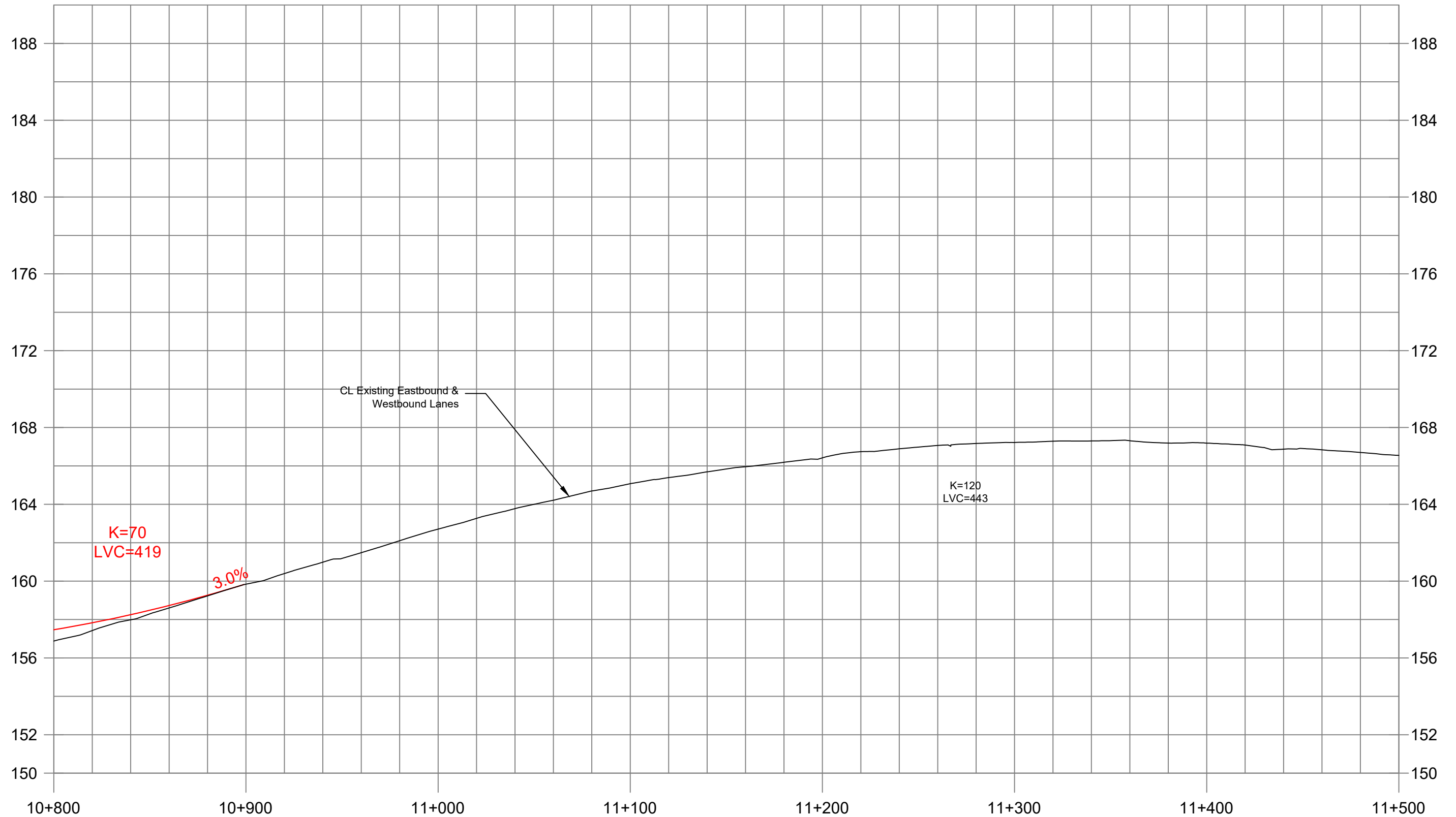


HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00

25 m
 1:2000

Recommended Plan
 HIGHWAY 401
 Sta 10+100 to Sta 10+800
 Haldimand Township

SHEET
8



SHEET

9

Recommended Profile

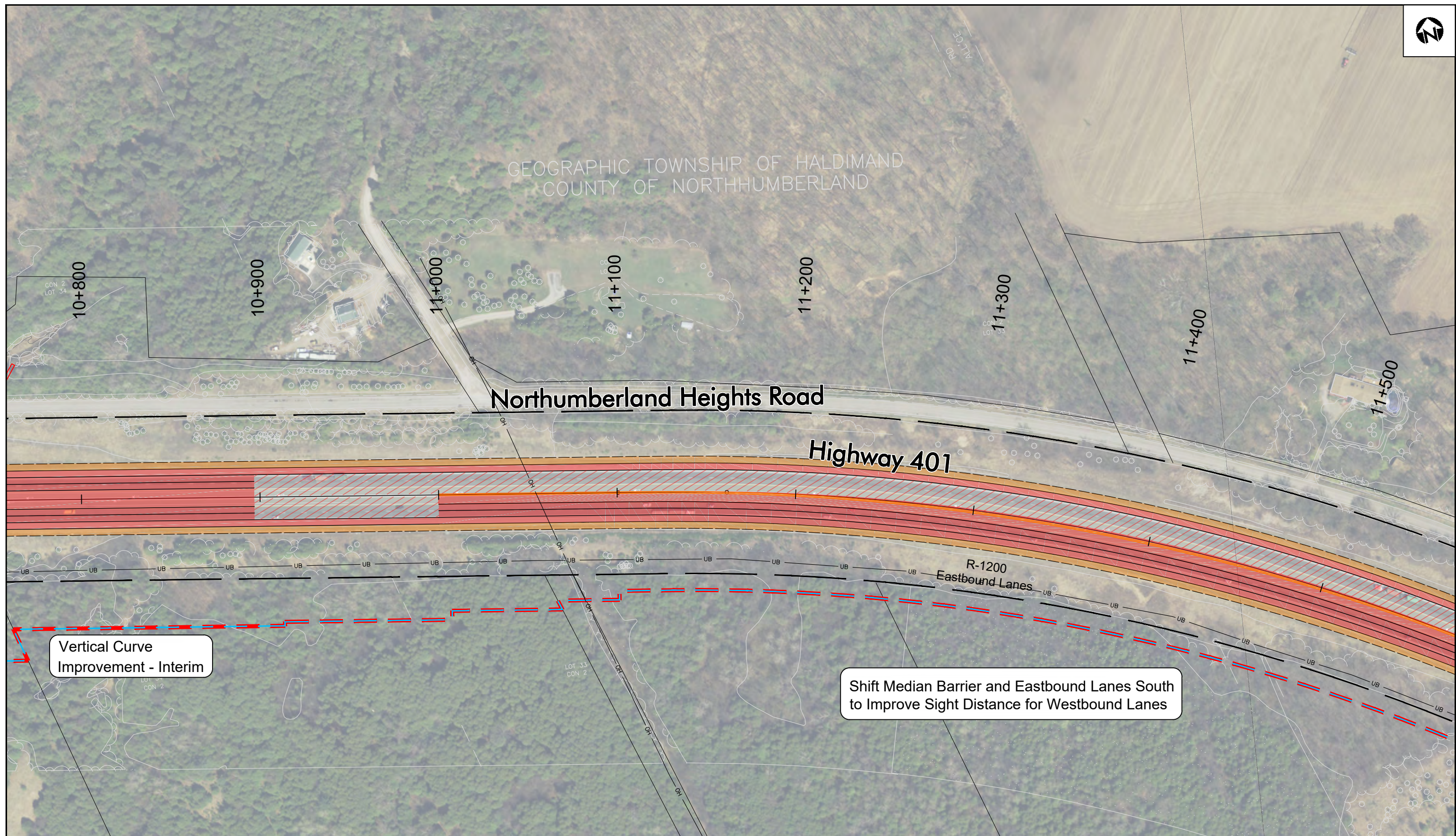
Highway 401
Sta 10+800 to Sta 11+500
Haldimand Township

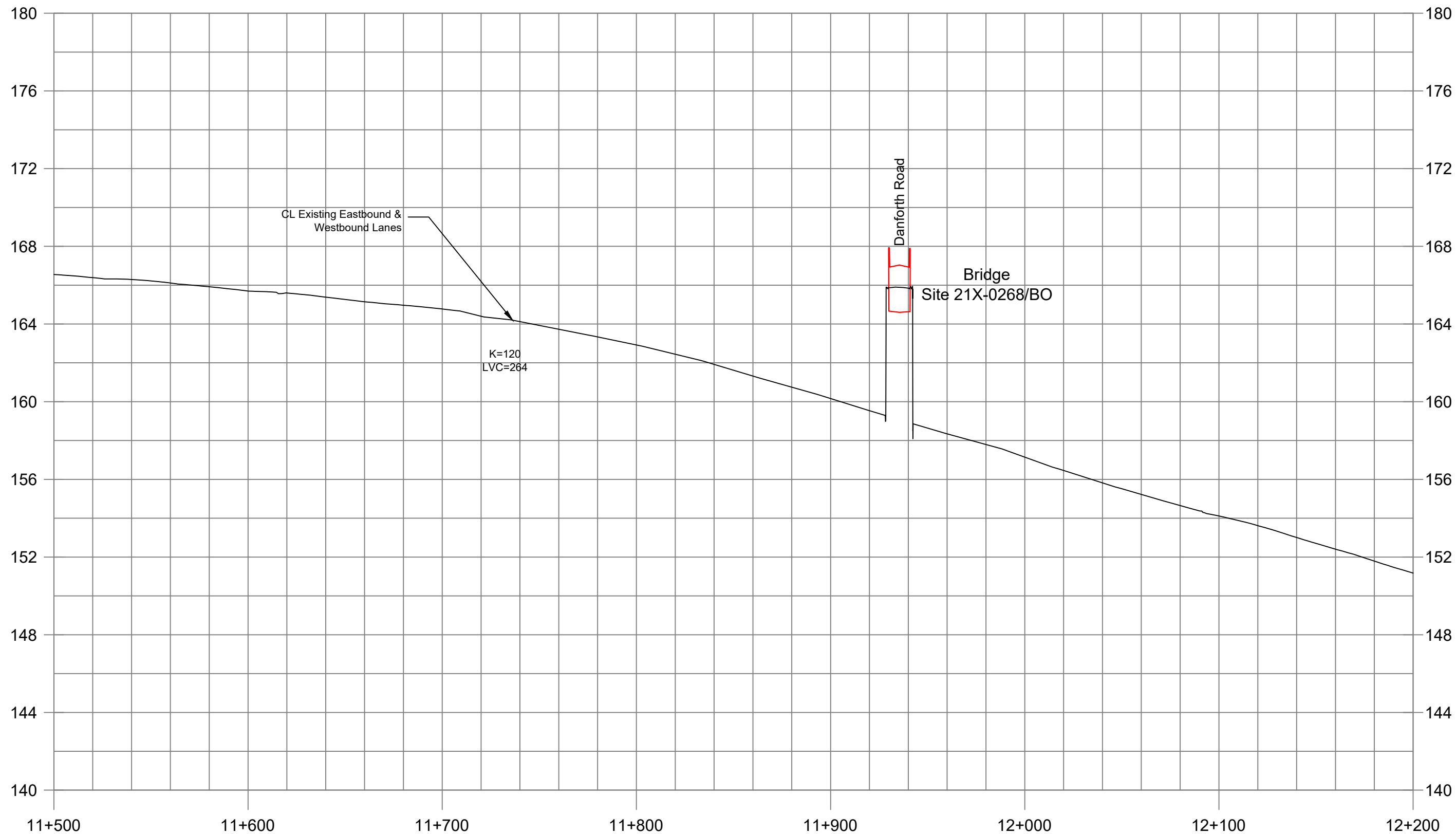
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







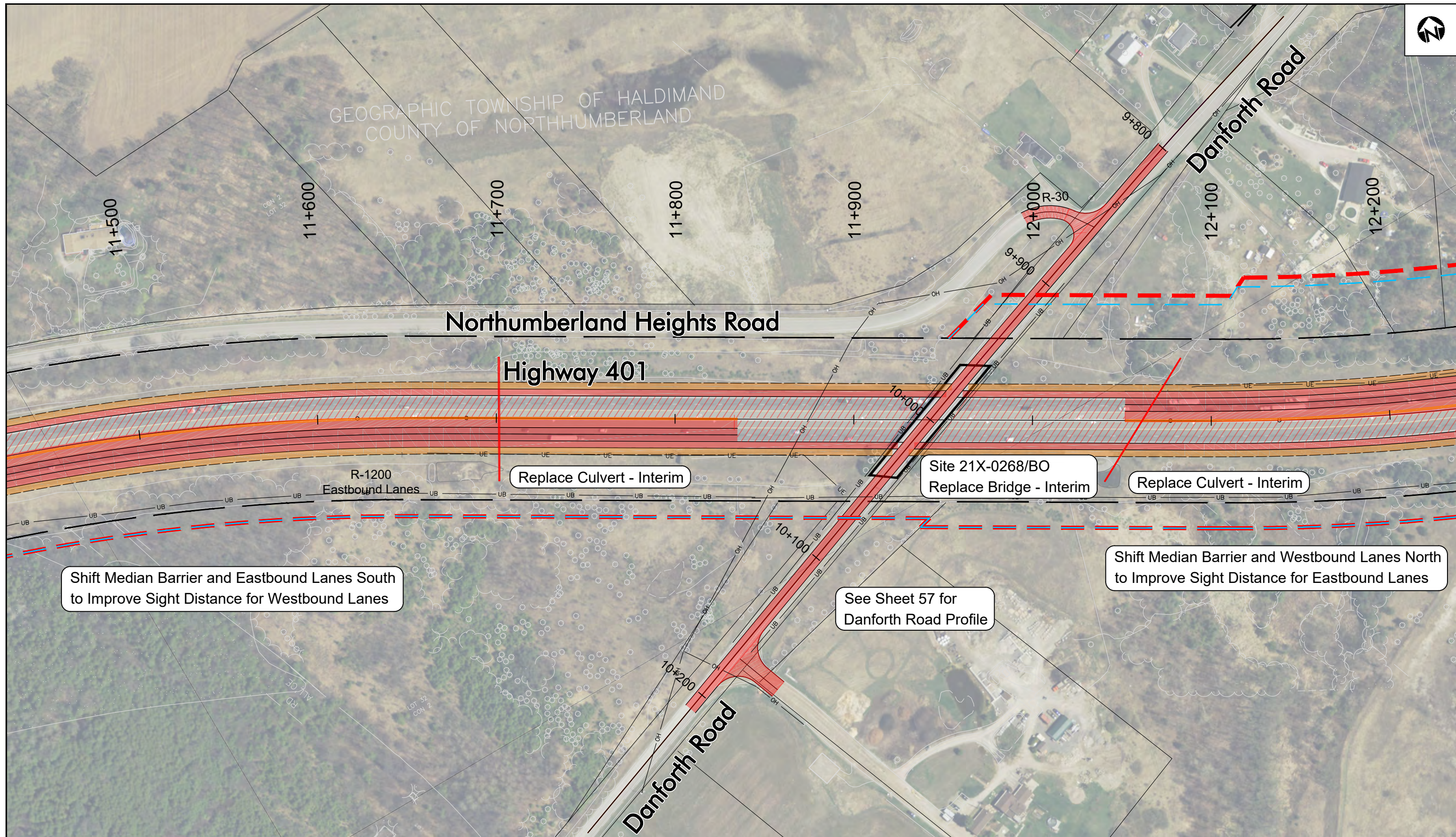
SHEET
11

Recommended Profile
 Highway 401
 Sta 11+500 to Sta 12+200
 Haldimand Township

2 m
 20 m
 1:2000

HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00



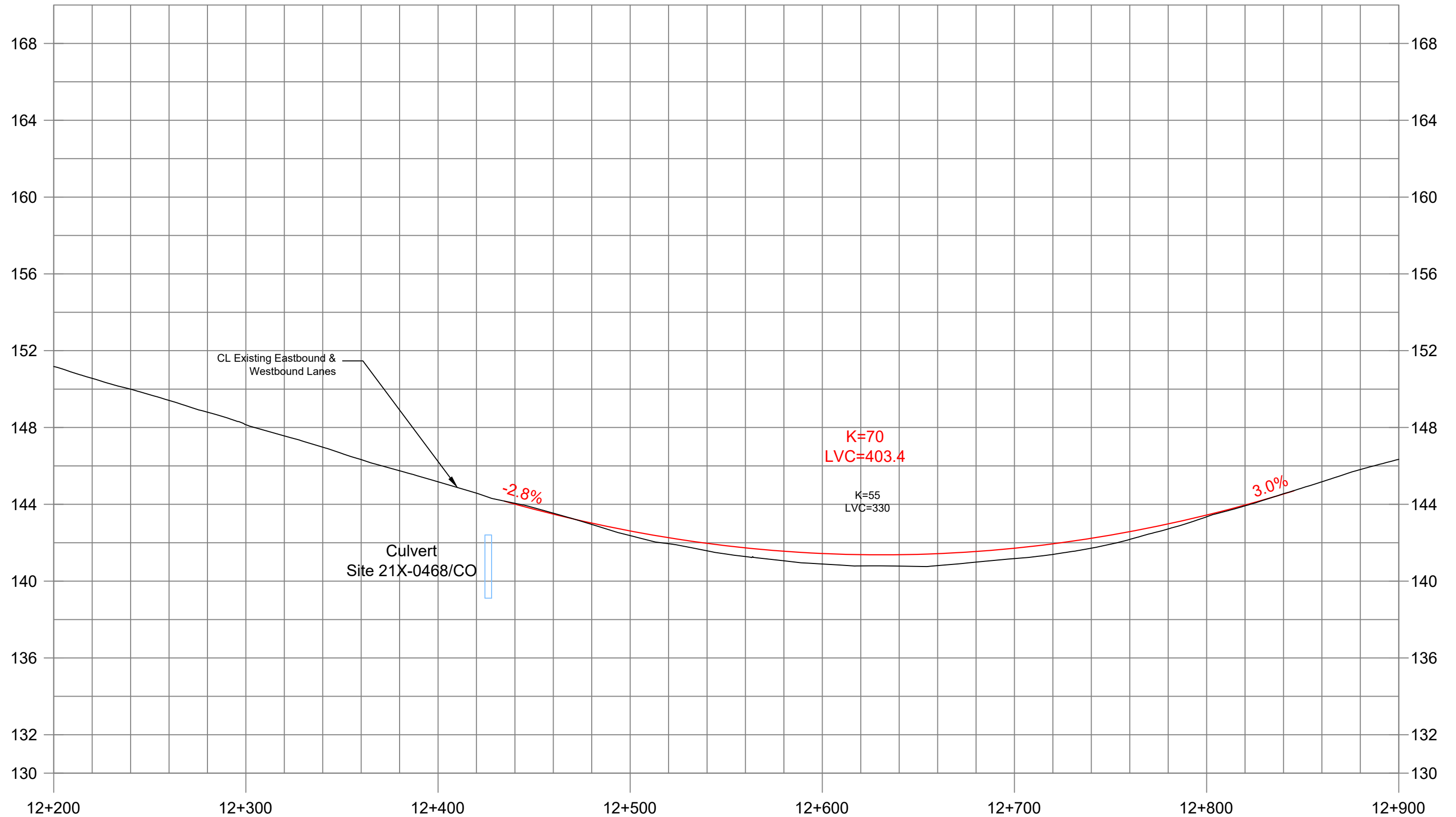


HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00

25 m
 1:2000

Recommended Plan
 HIGHWAY 401
 Sta 11+500 to Sta 12+200
 Haldimand Township

SHEET
12



SHEET

13

Recommended Profile

Highway 401
Sta 12+200 to Sta 12+900
Haldimand Township

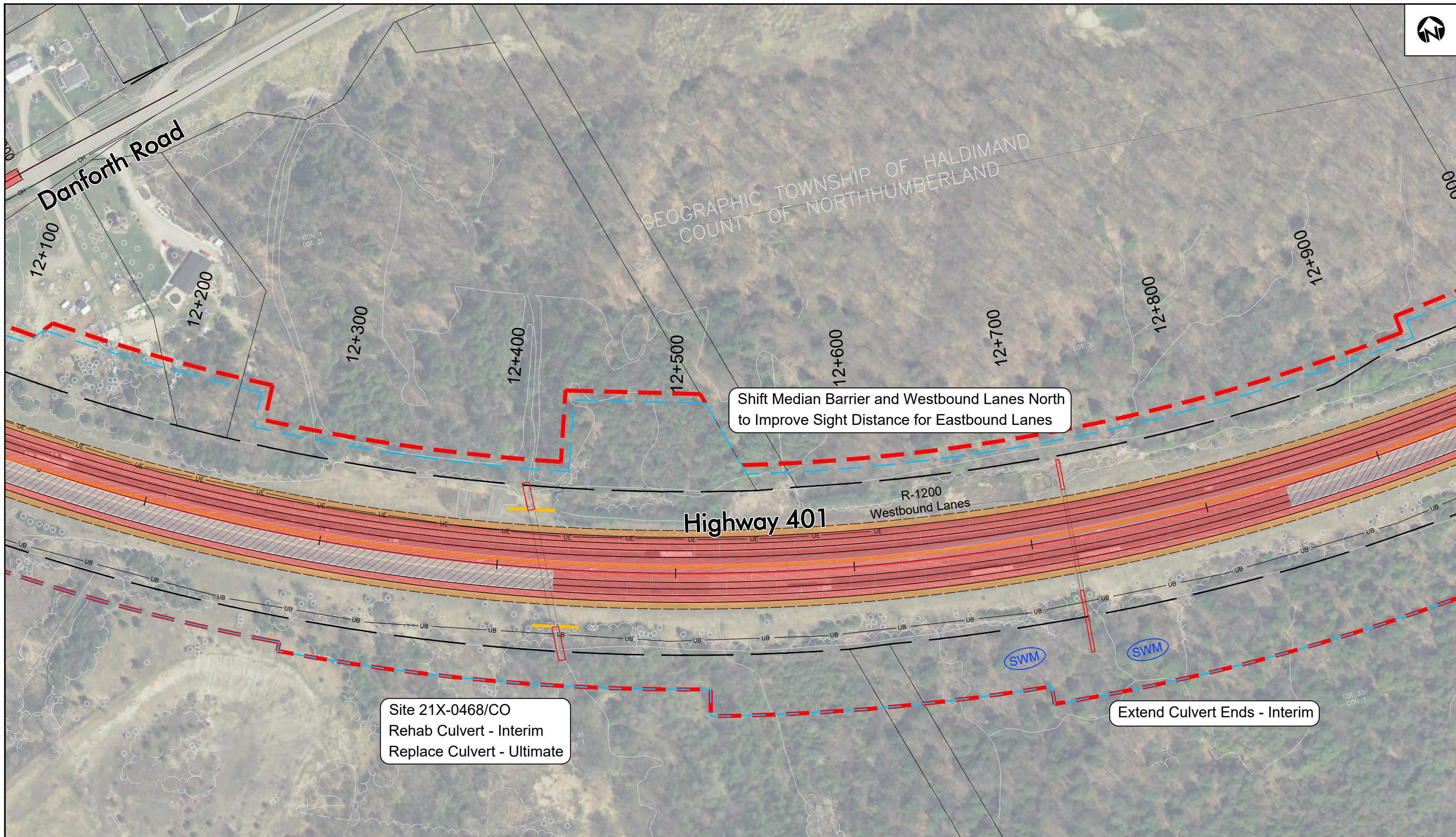
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne

Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



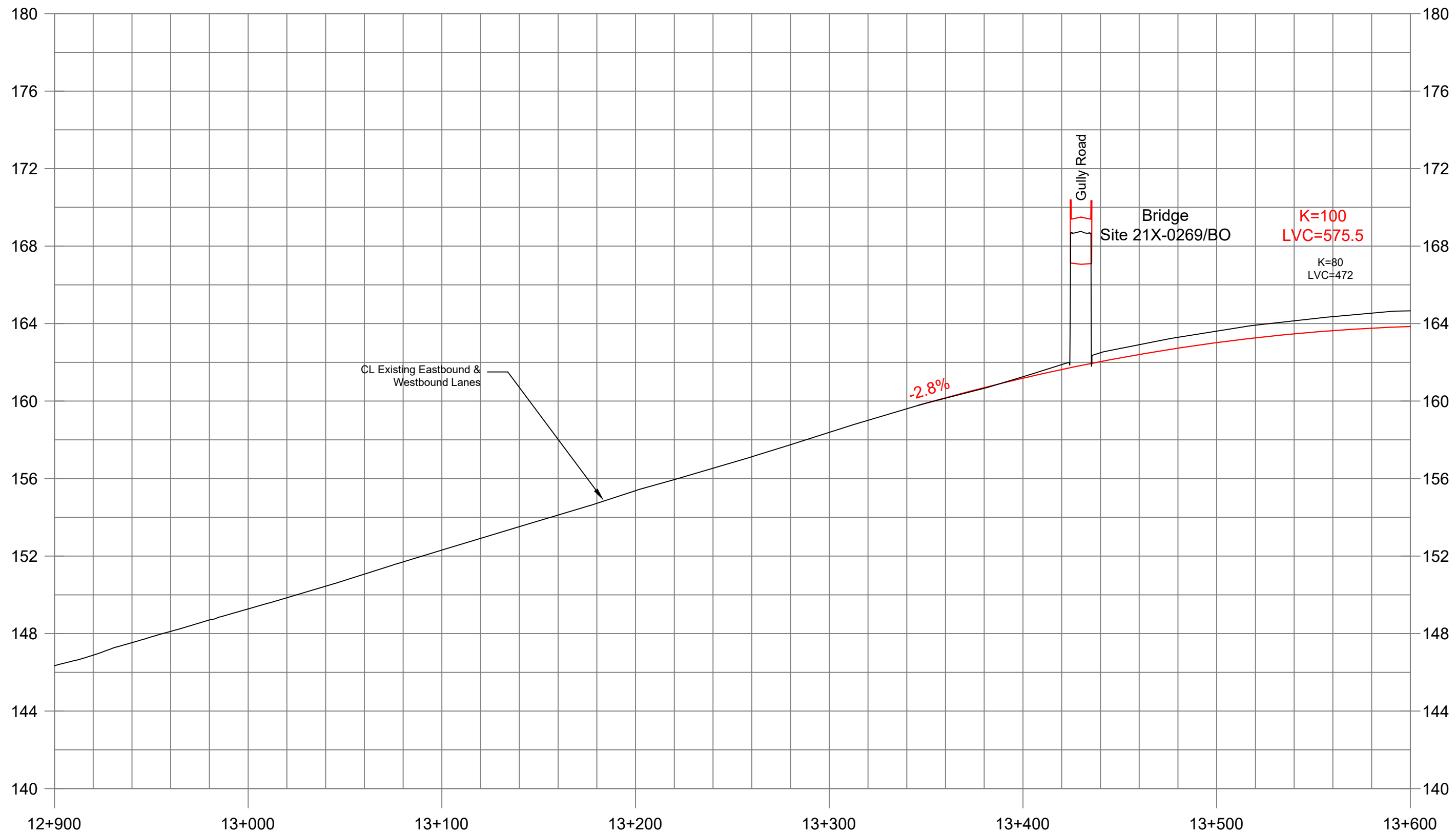


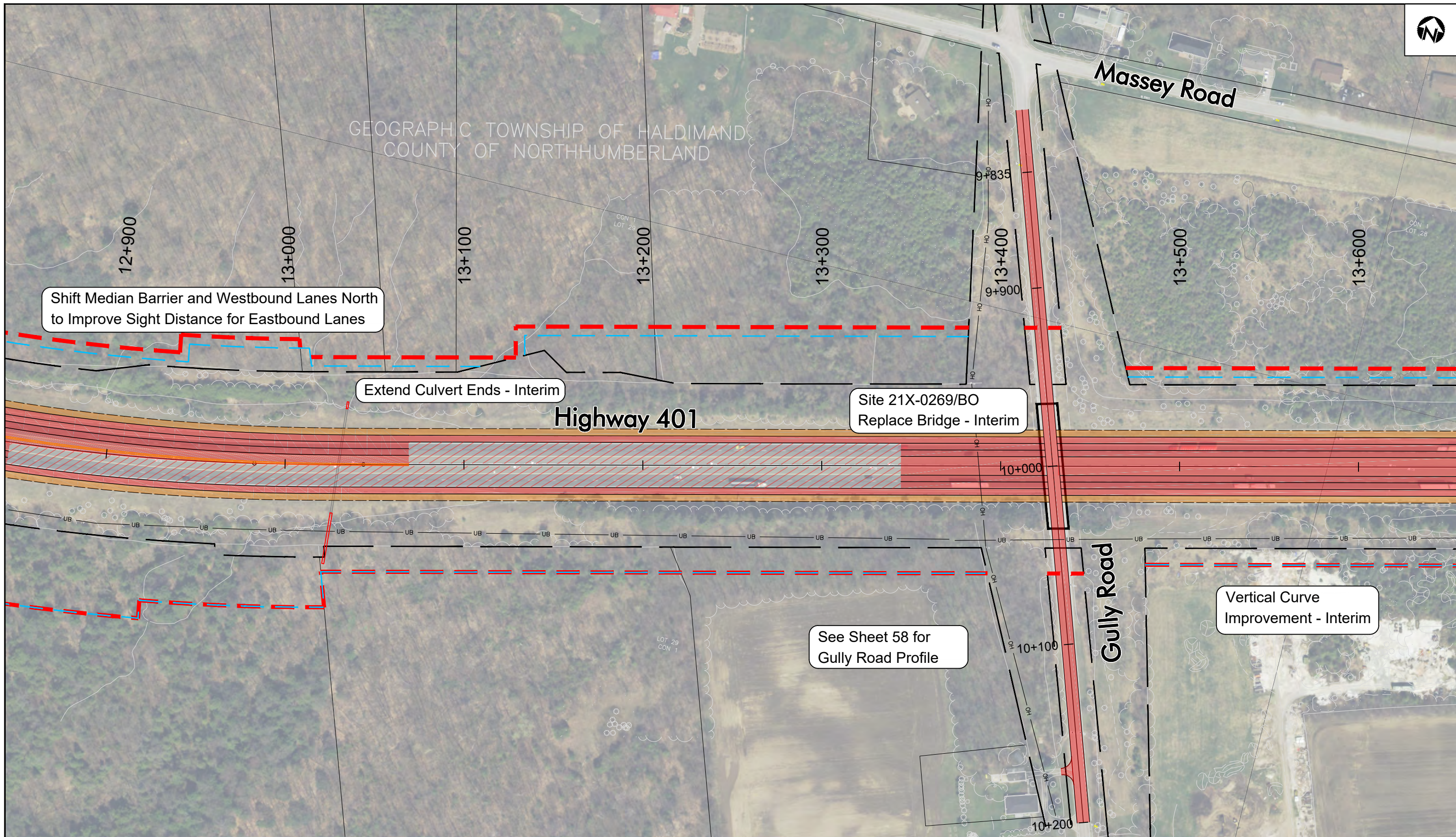
HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00

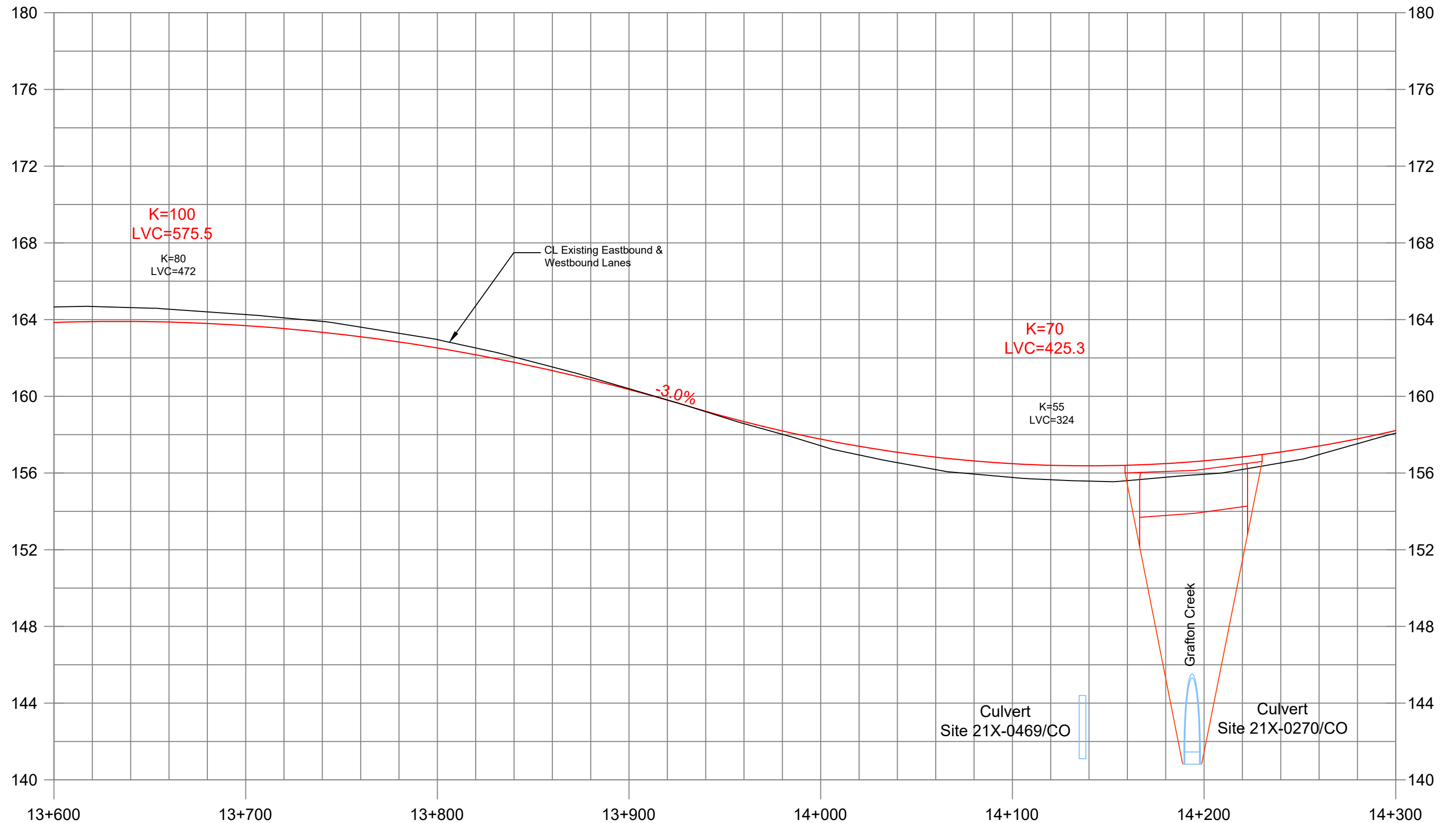
25 m
 1:2000

Recommended Plan
 HIGHWAY 401
 Sta 12+200 to Sta 12+900
 Haldimand Township

SHEET
14







SHEET
17

Recommended Profile

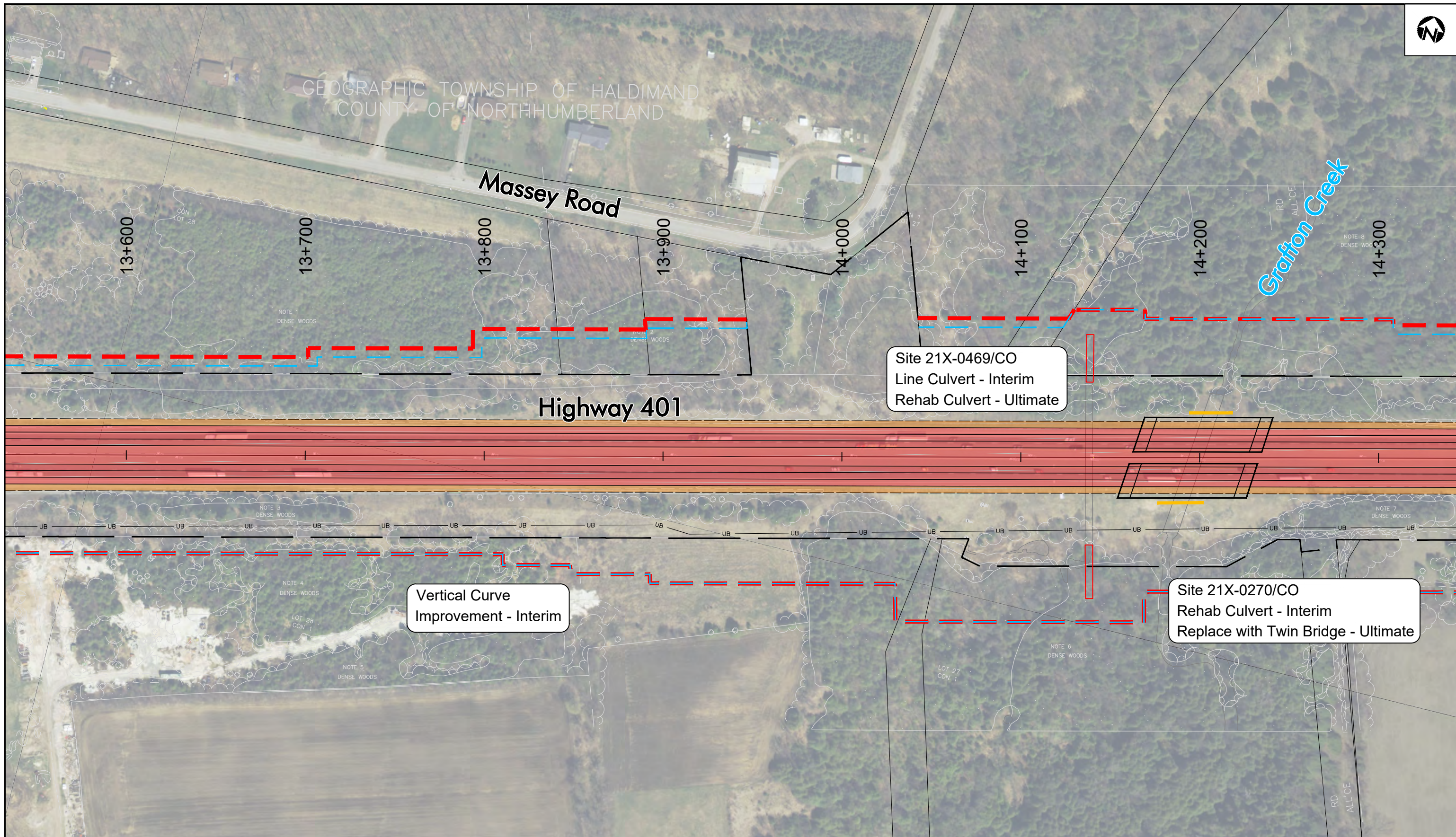
Highway 401
Sta 13+600 to Sta 14+300
Haldimand Township

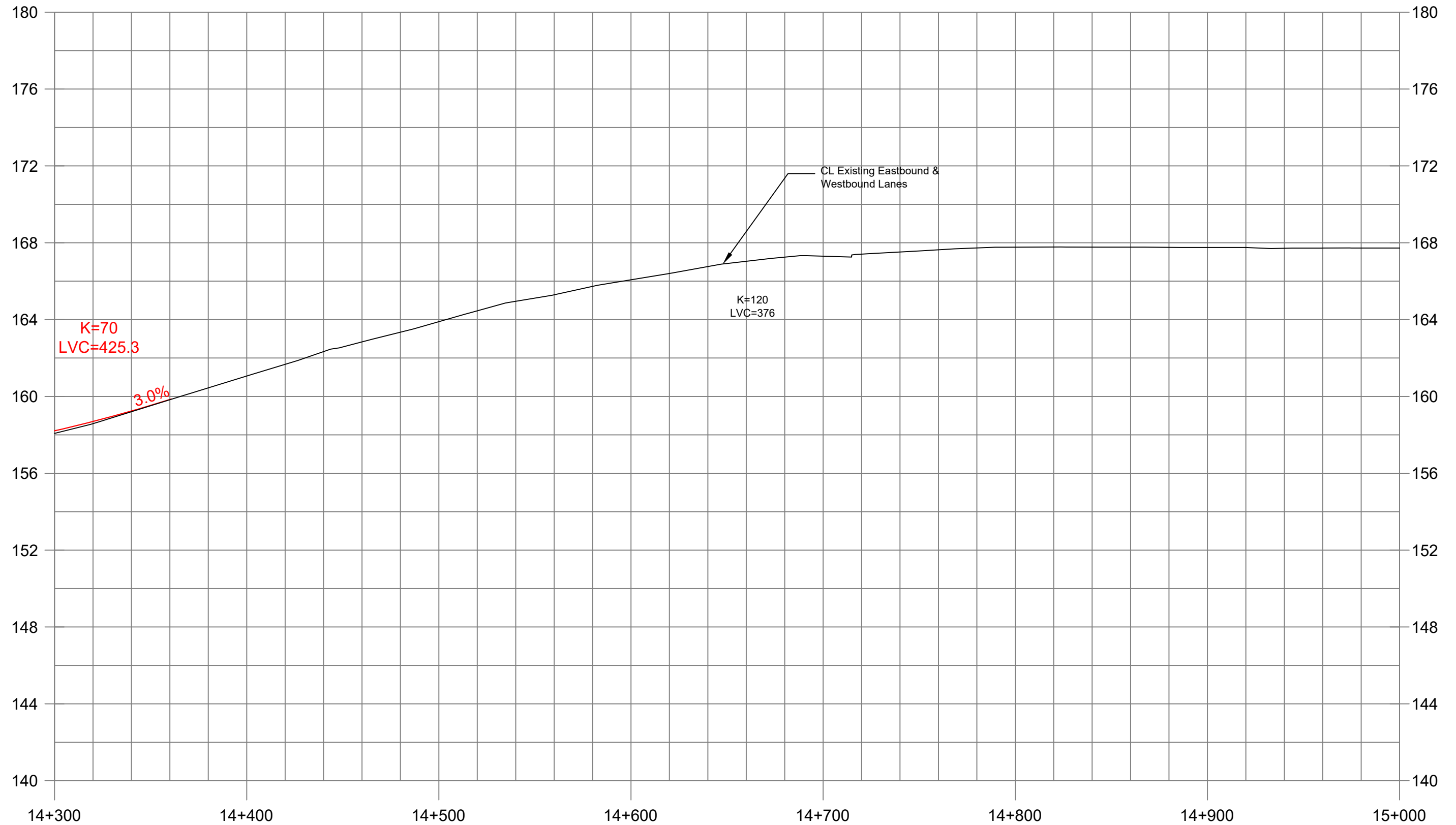
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







SHEET

19

Recommended Profile

Highway 401
Sta 14+300 to Sta 15+000
Haldimand Township

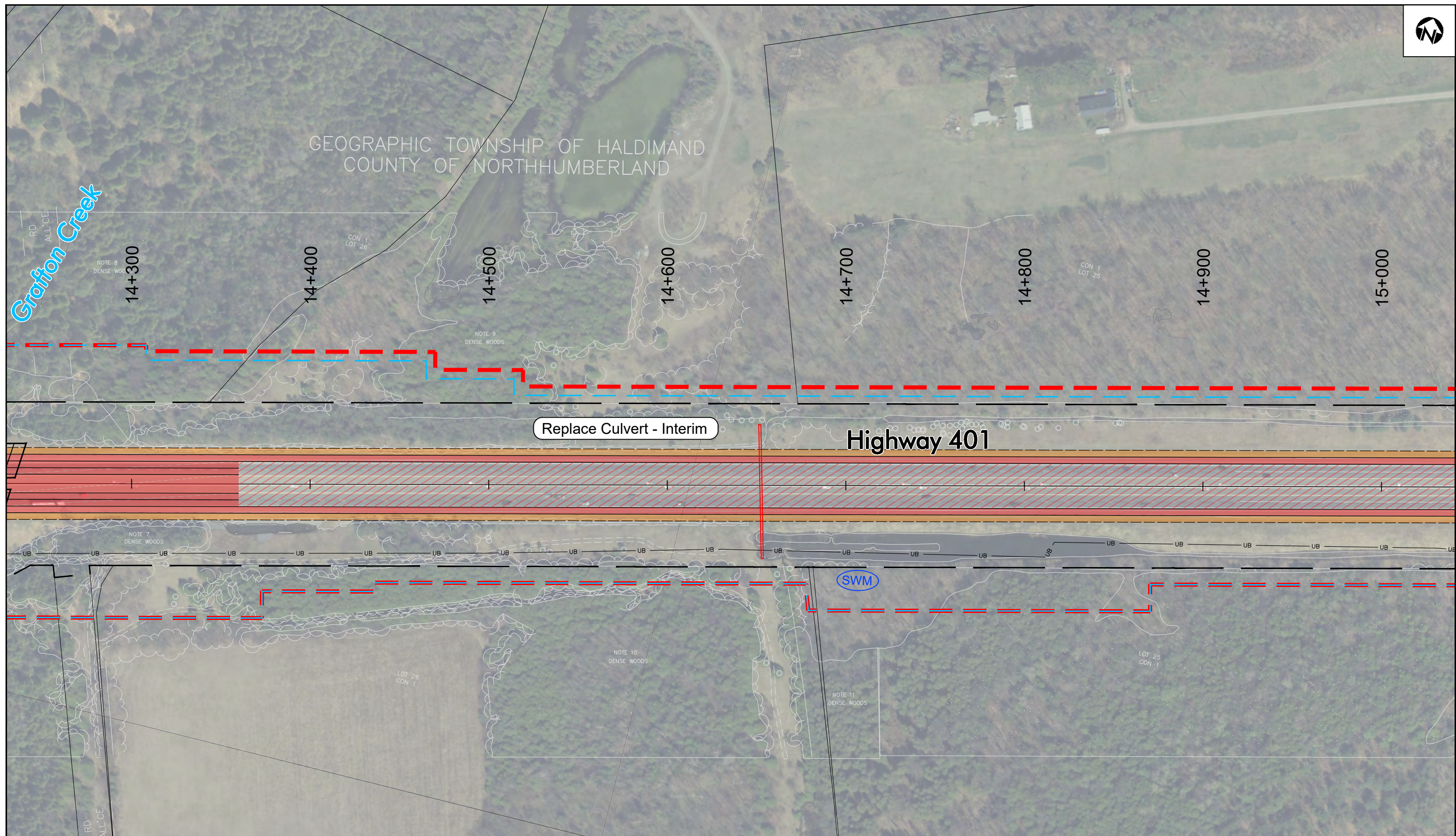
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne

Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



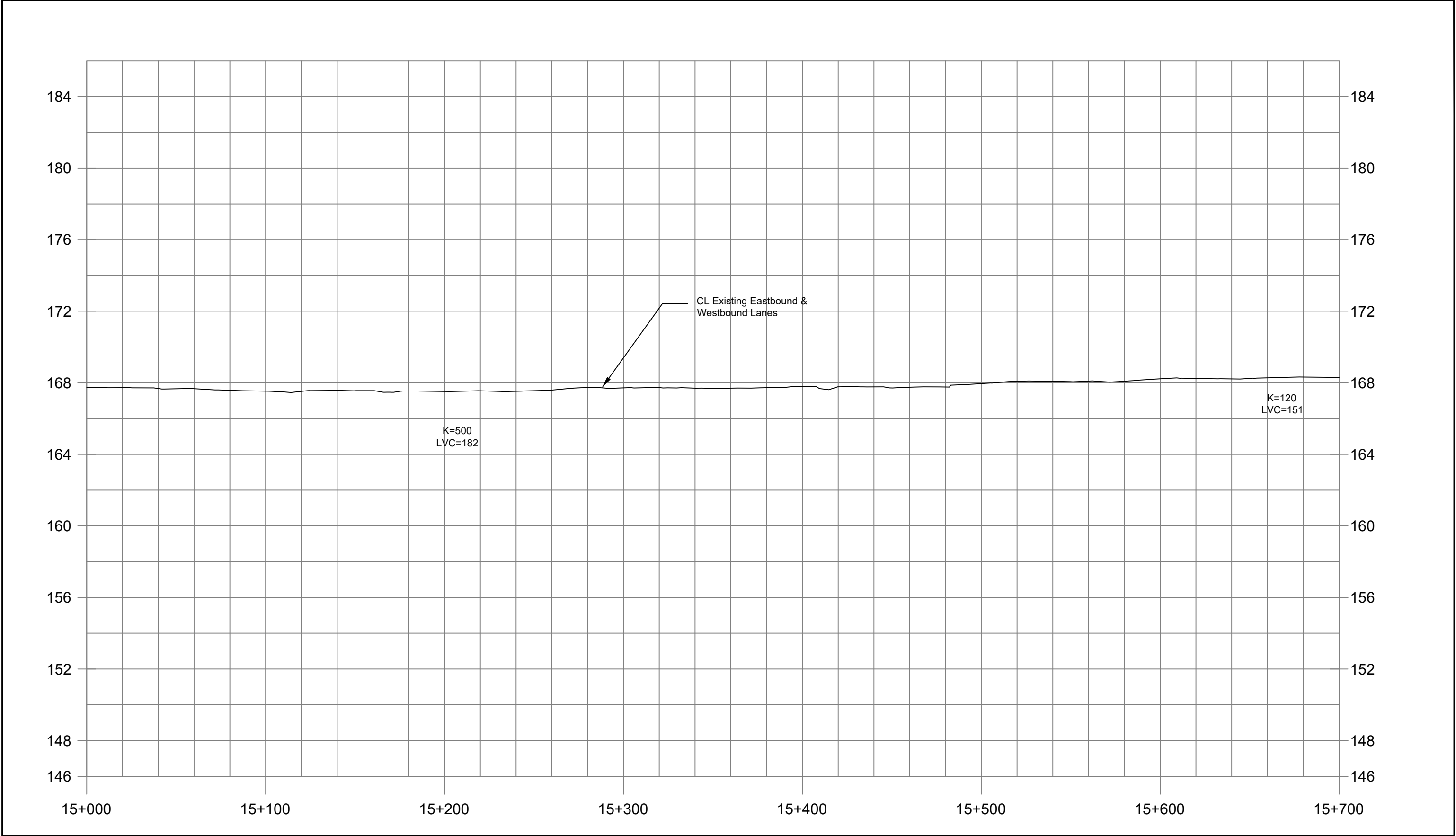


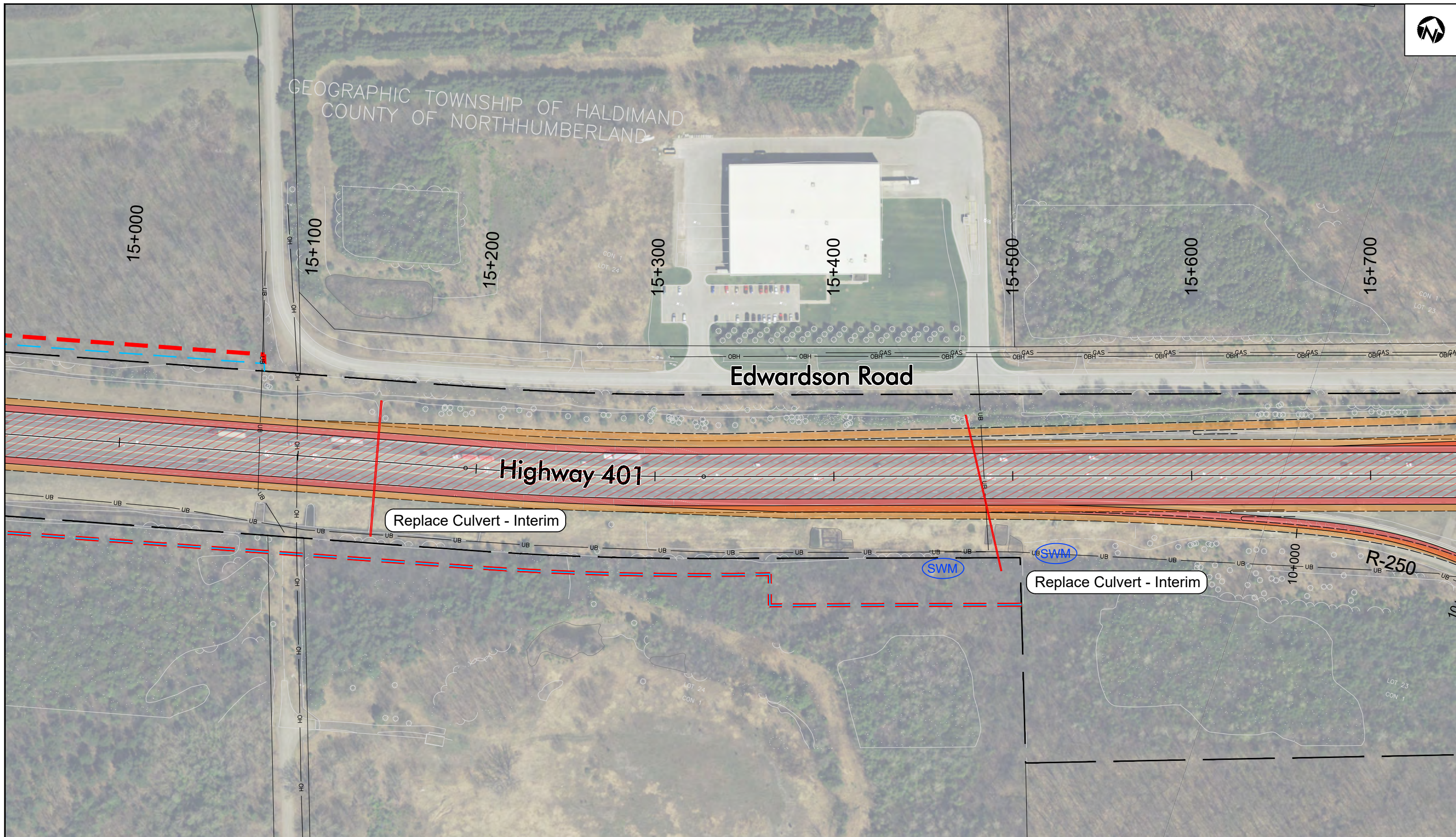
HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 14+300 to Sta 15+000
Haldimand Township

SHEET
20



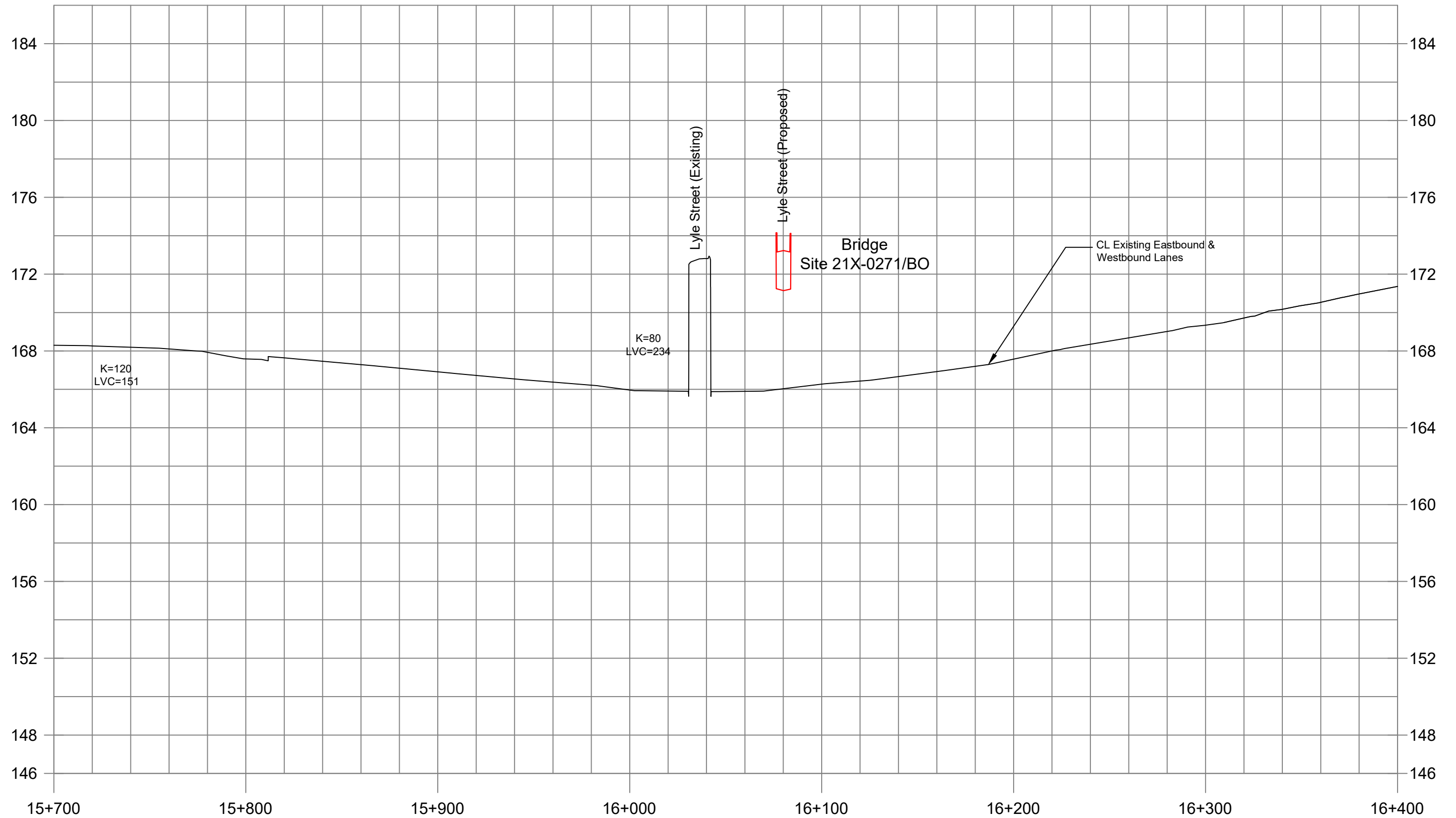


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 15+000 to Sta 15+700
Haldimand Township

SHEET
22



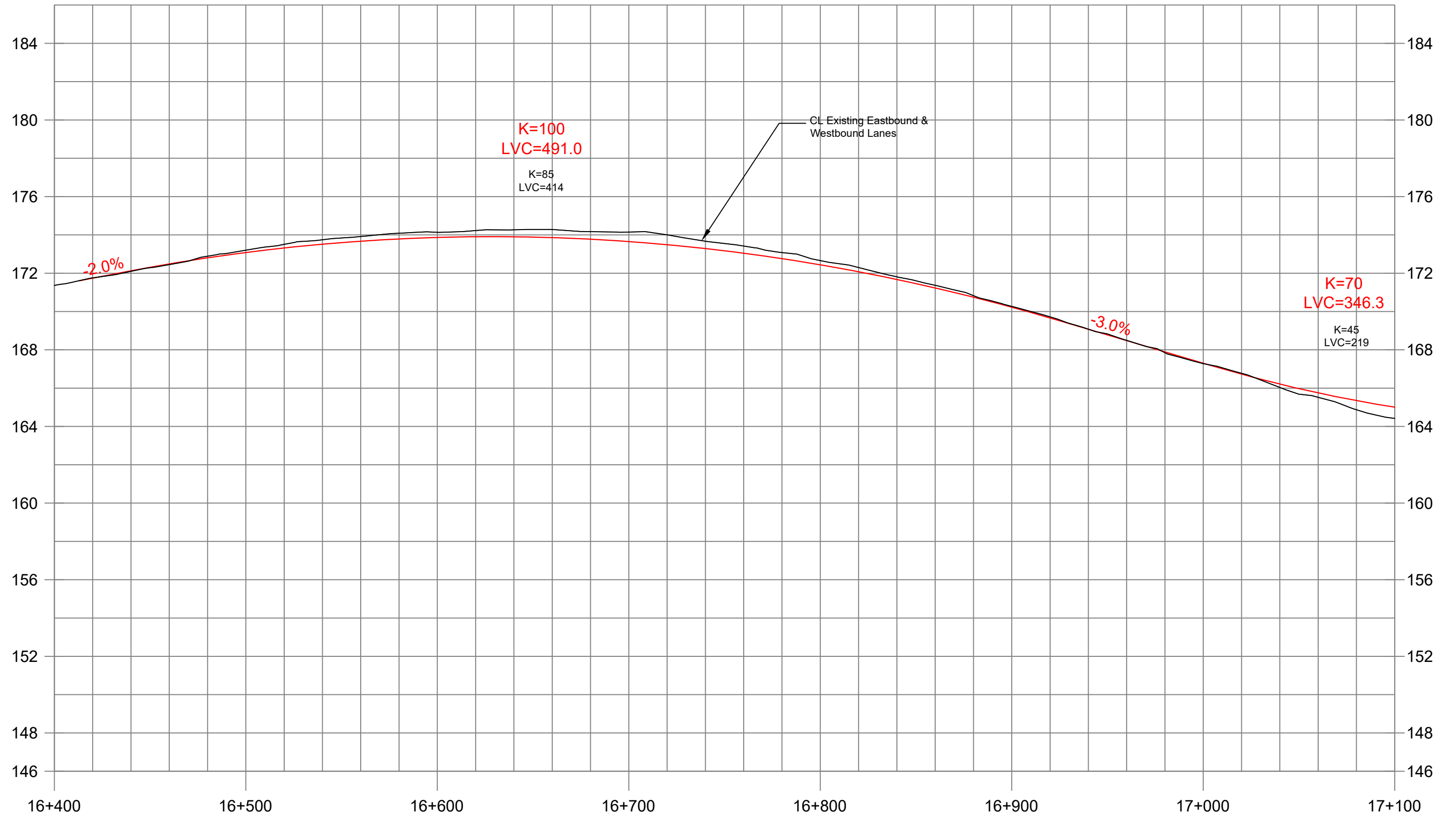
SHEET
23

Recommended Profile
Highway 401
Sta 15+700 to Sta 16+400
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00





SHEET
25

Recommended Profile

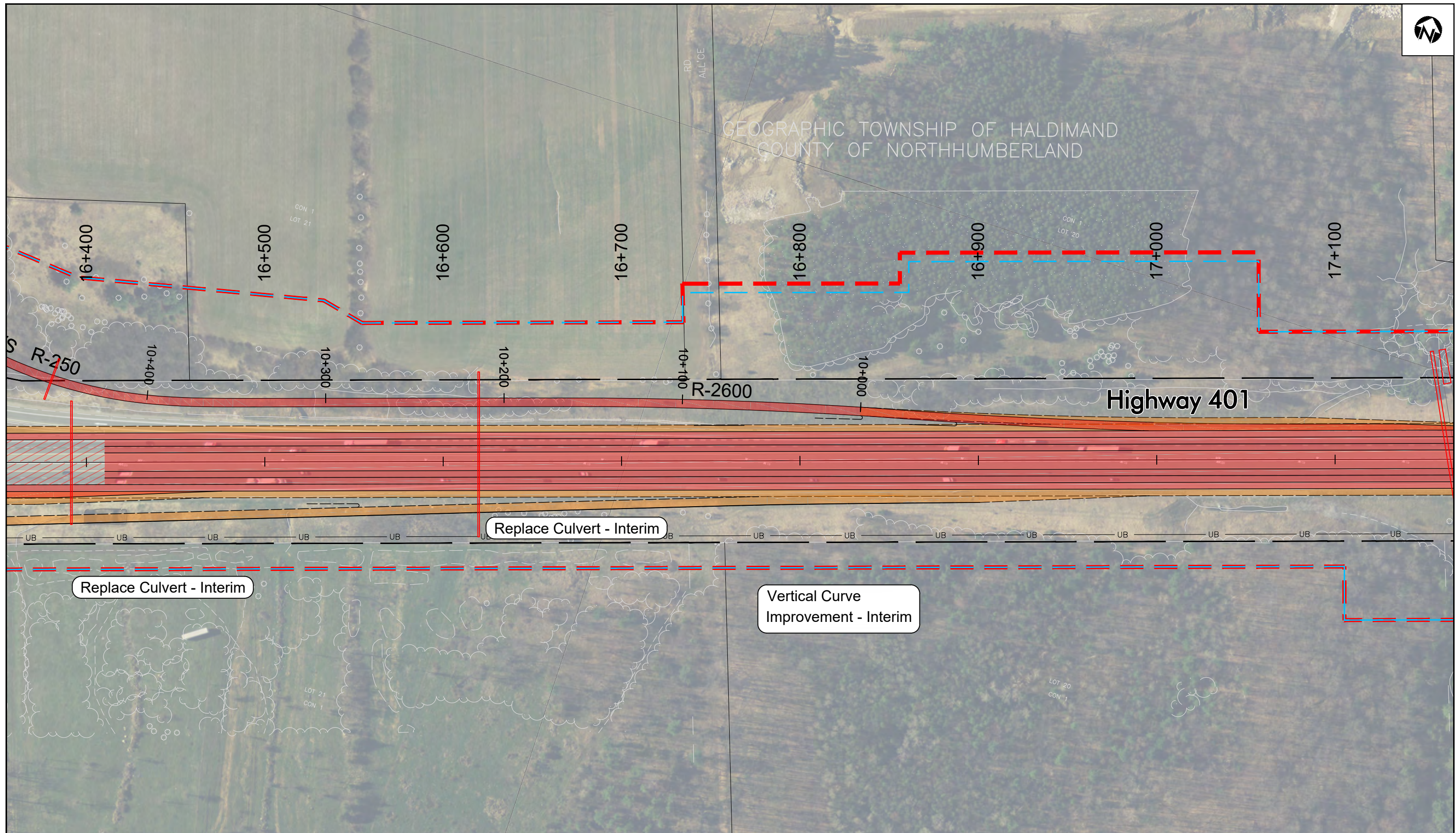
Highway 401
Sta 16+400 to Sta 17+100
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

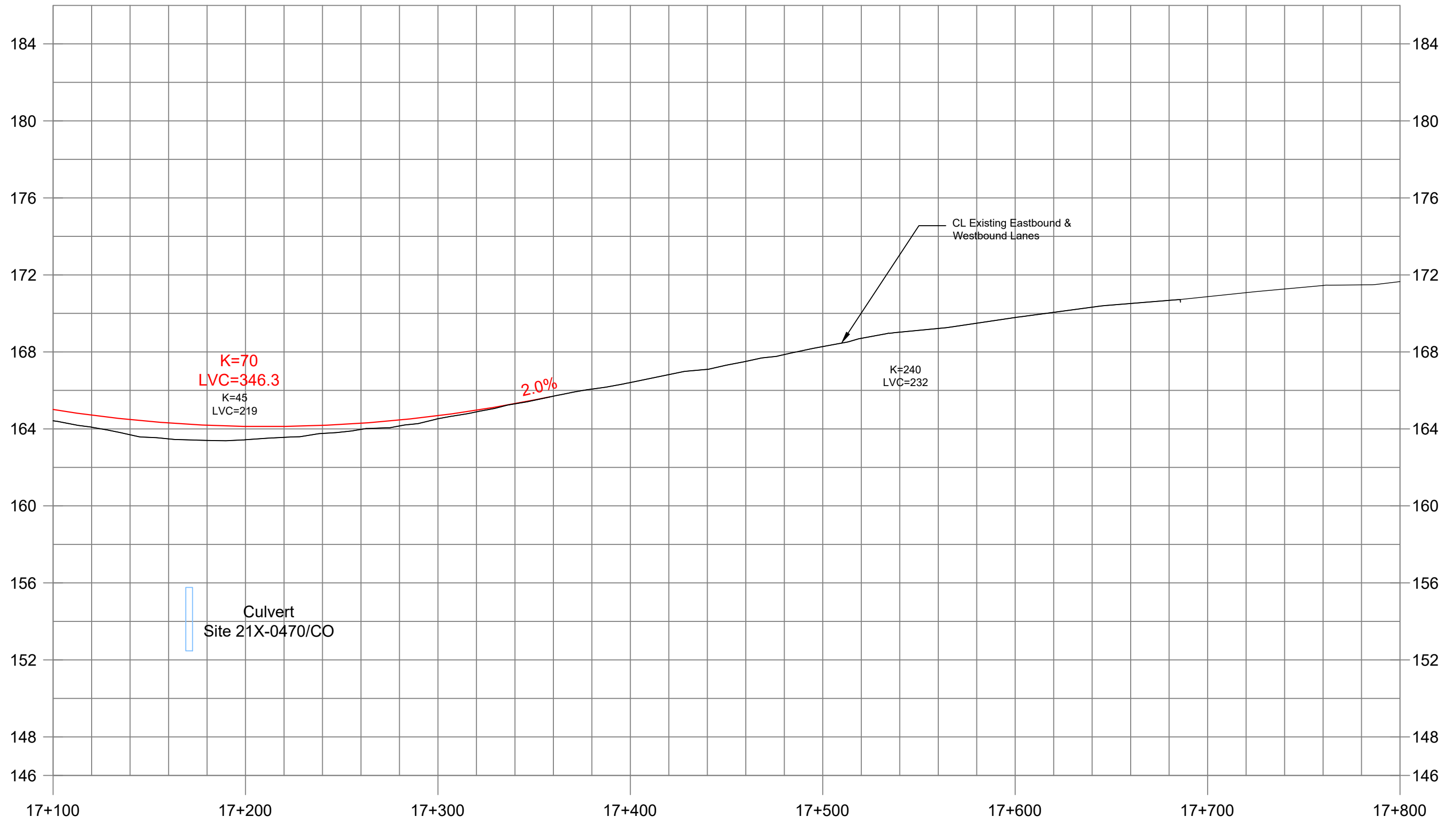




HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 16+400 to Sta 17+100
Haldimand Township



SHEET
27

Recommended Profile

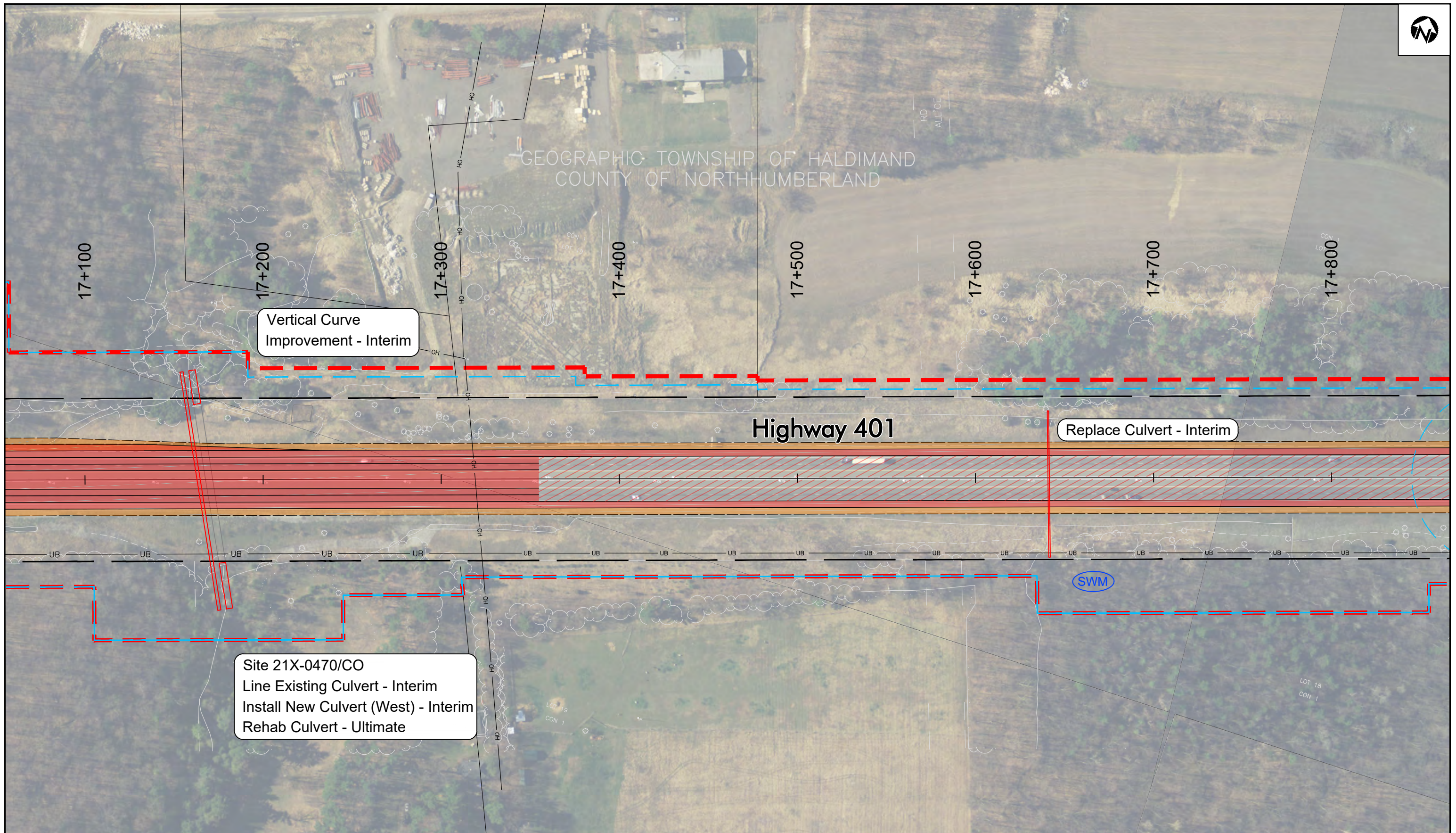
Highway 401
Sta 17+100 to Sta 17+800
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



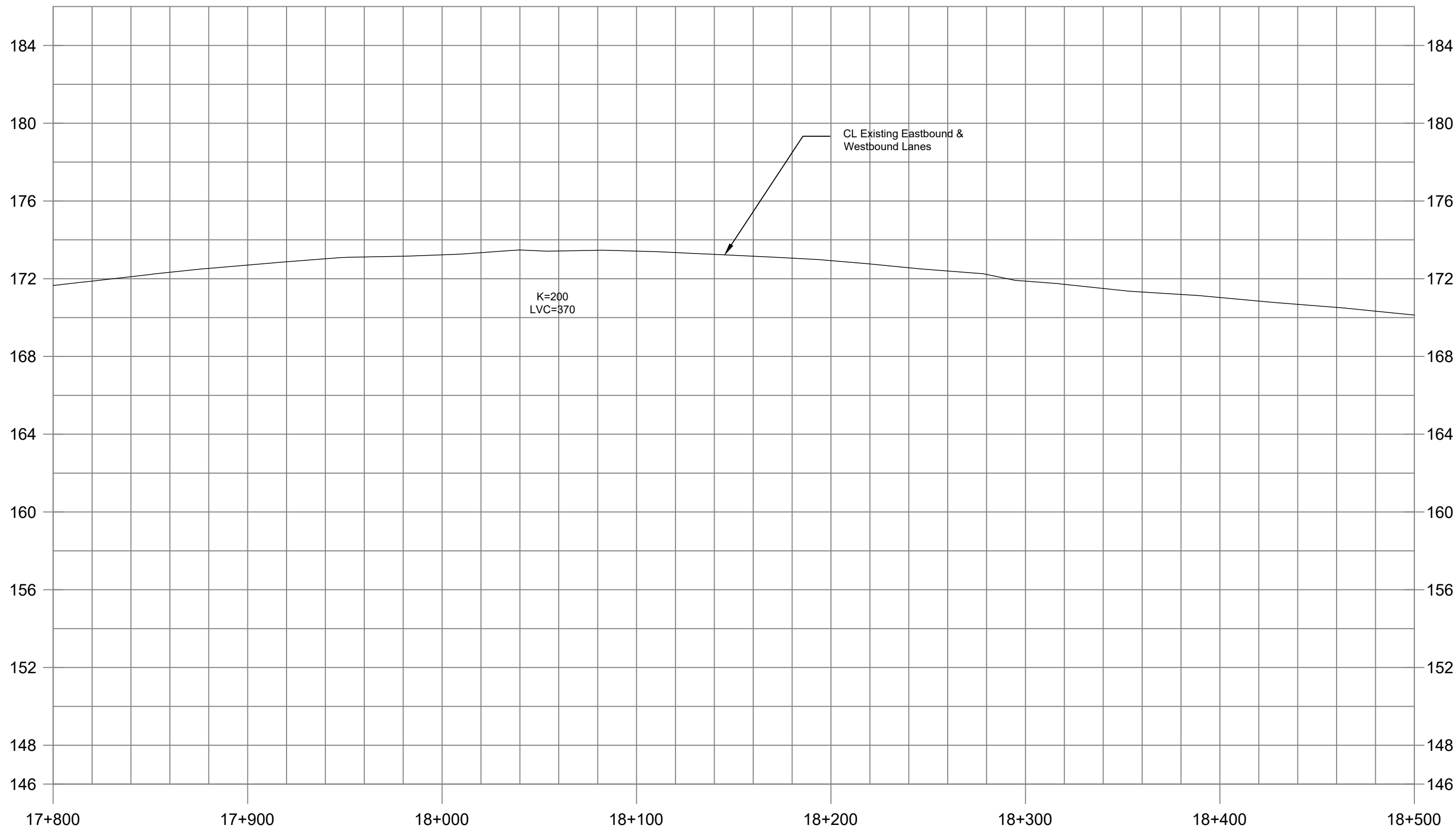


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 17+100 to Sta 17+800
Haldimand Township

SHEET
28



SHEET
29

Recommended Profile

Highway 401
Sta 17+800 to Sta 18+500
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00





GEOGRAPHIC TOWNSHIP OF HALDIMAND
COUNTY OF NORTHUMBERLAND

17+800

17+900

18+000

18+100

18+200

18+300

18+400

18+500

Highway 401

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

UB

LOT 18
CON 1

LOT 17
CON 1

RD
ALL'CE

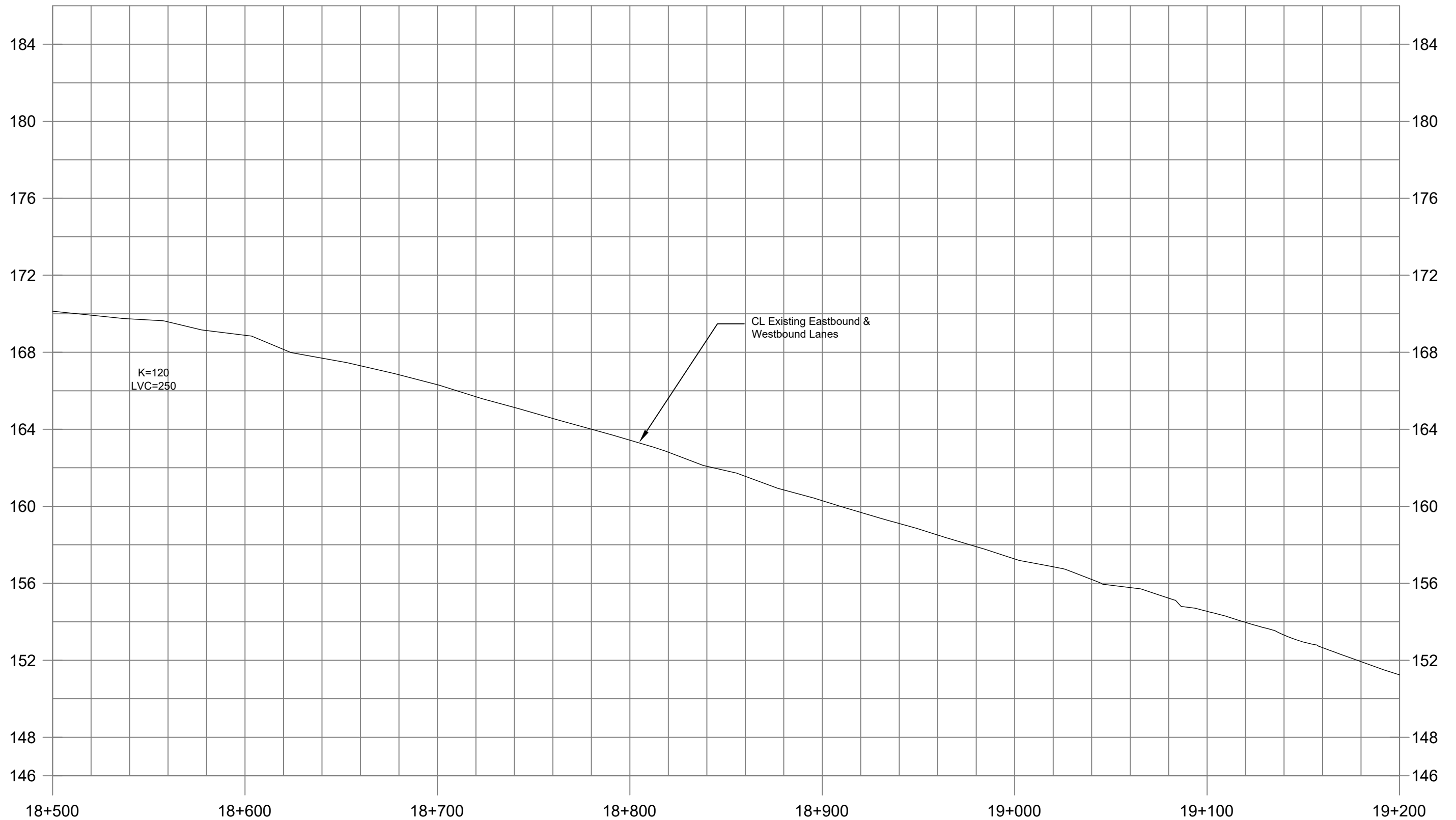


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 17+800 to Sta 18+500
Haldimand Township

SHEET
30



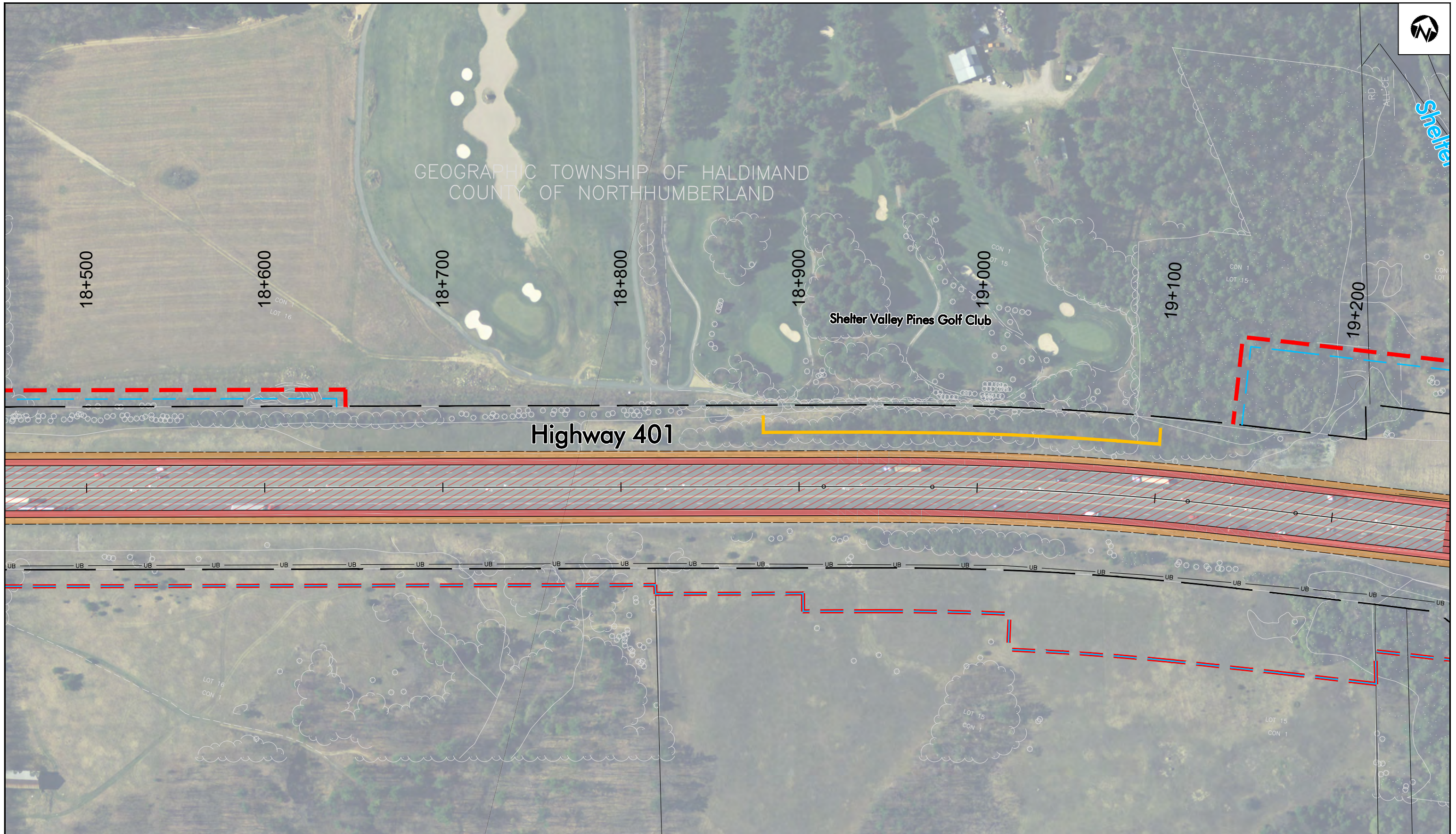
SHEET
31

Recommended Profile
Highway 401
Sta 18+500 to Sta 19+200
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



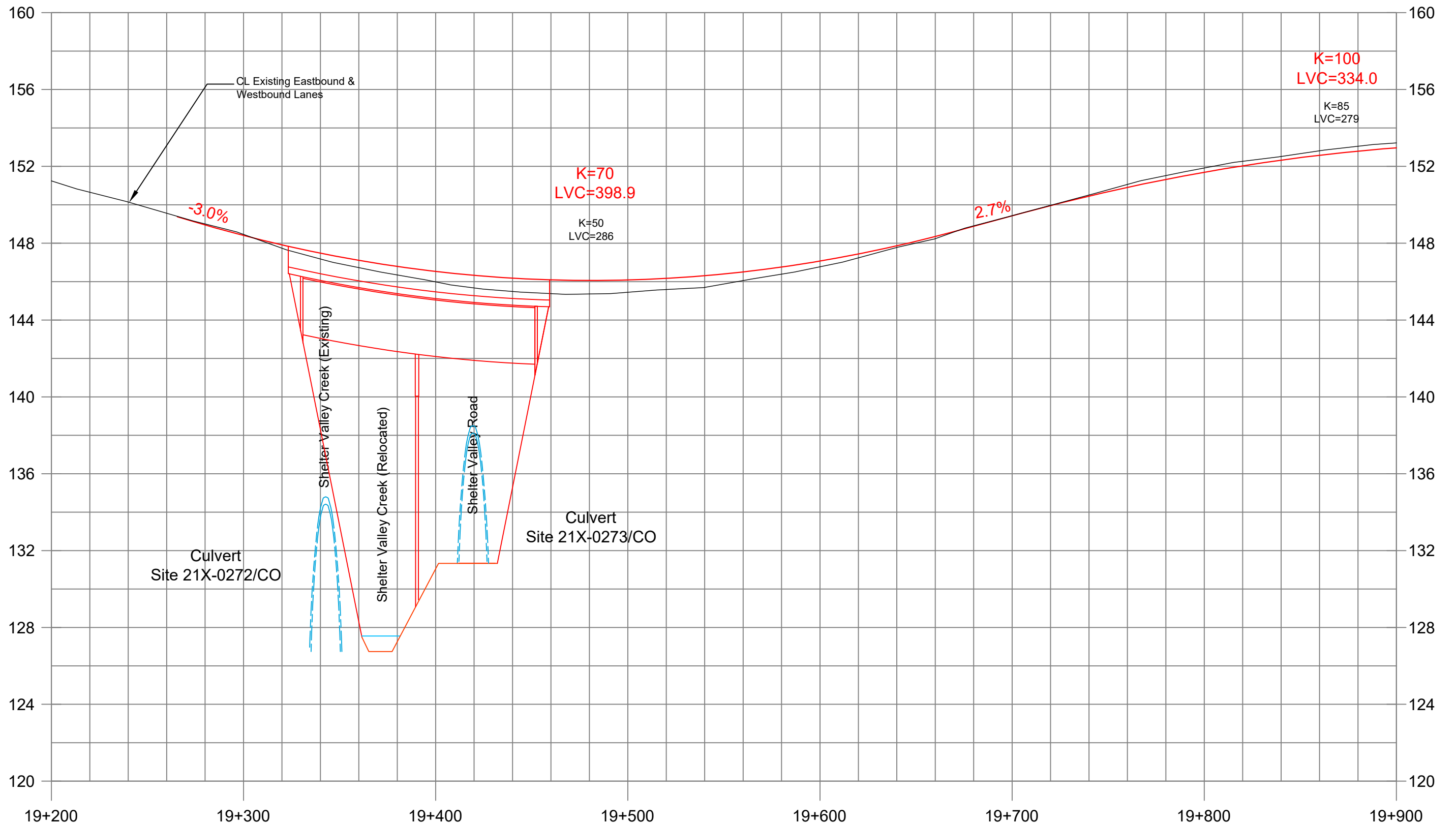


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 18+500 to Sta 19+200
Haldimand Township

SHEET
32



SHEET
33

Recommended Profile

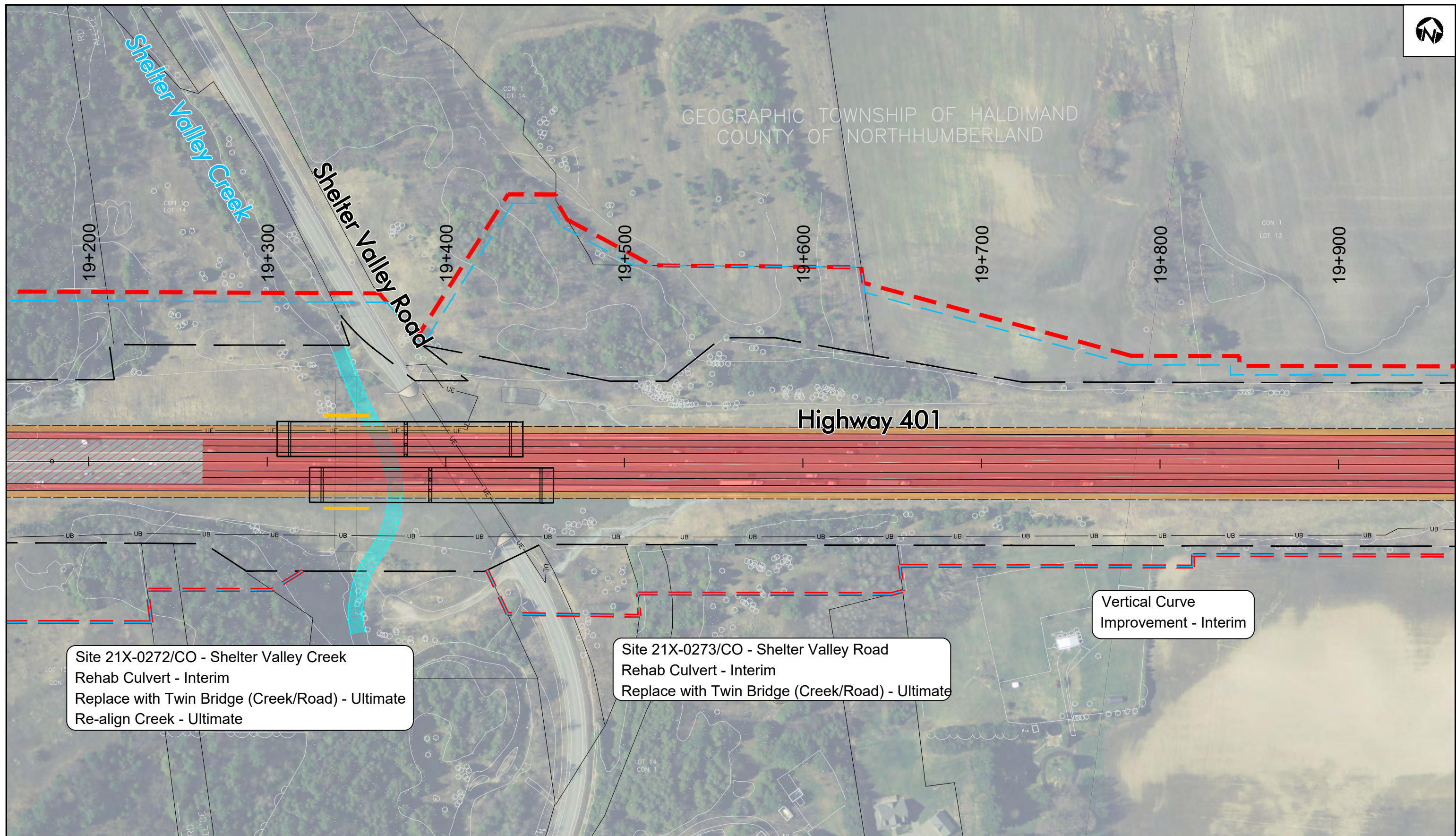
Highway 401
Sta 19+200 to Sta 19+900
Haldimand Township

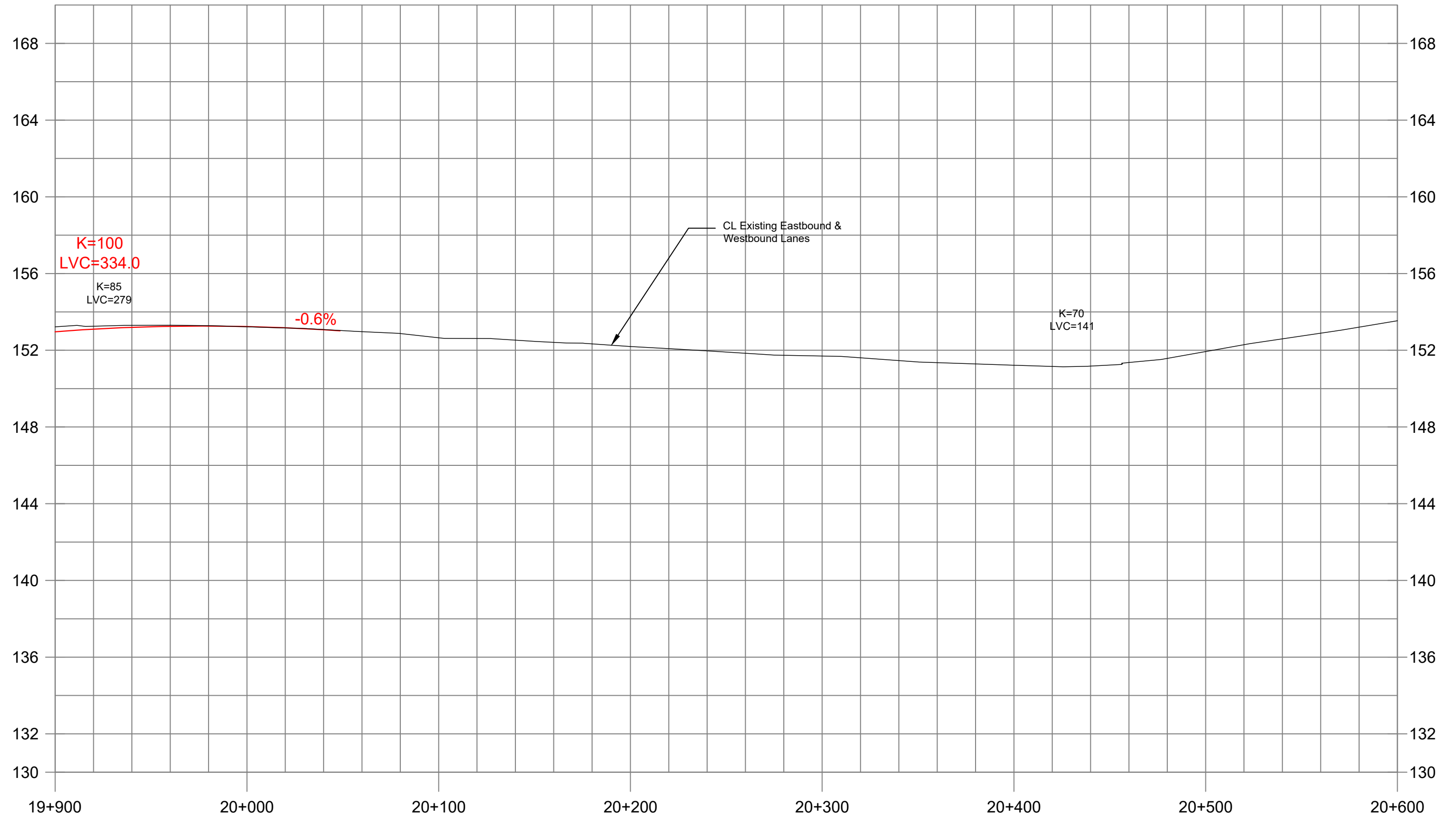
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







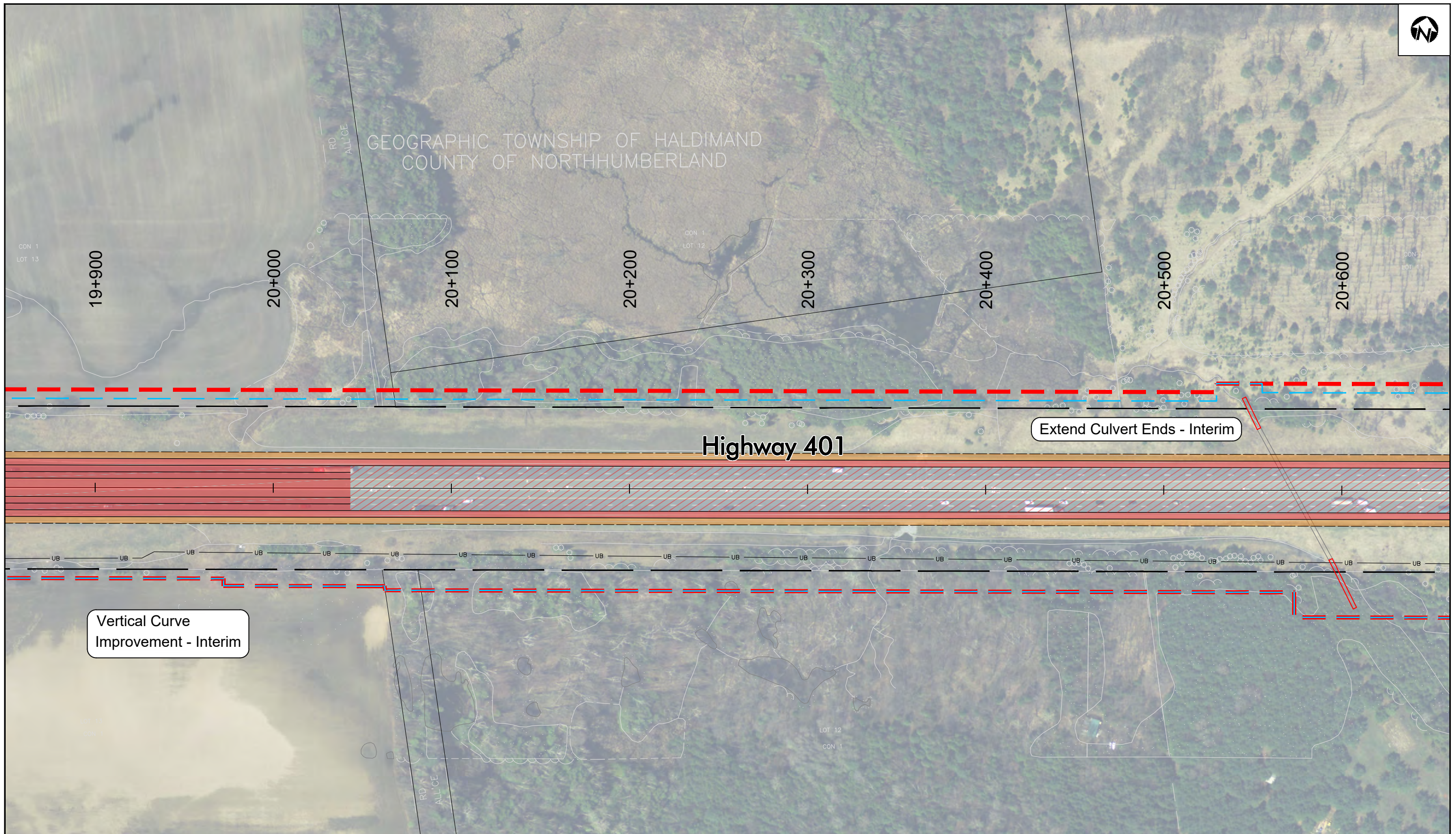
SHEET
35

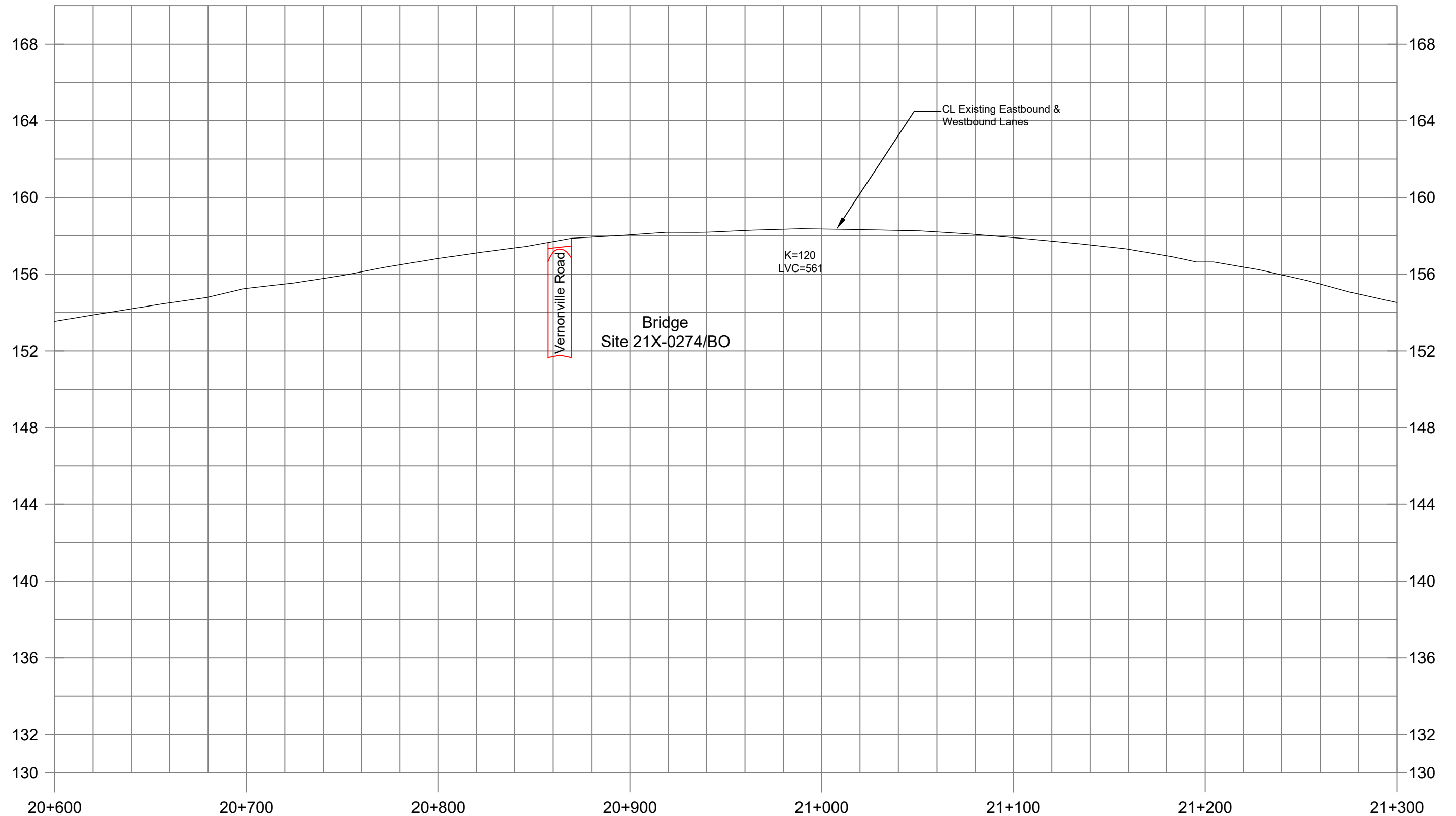
Recommended Profile
Highway 401
Sta 19+900 to Sta 20+600
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







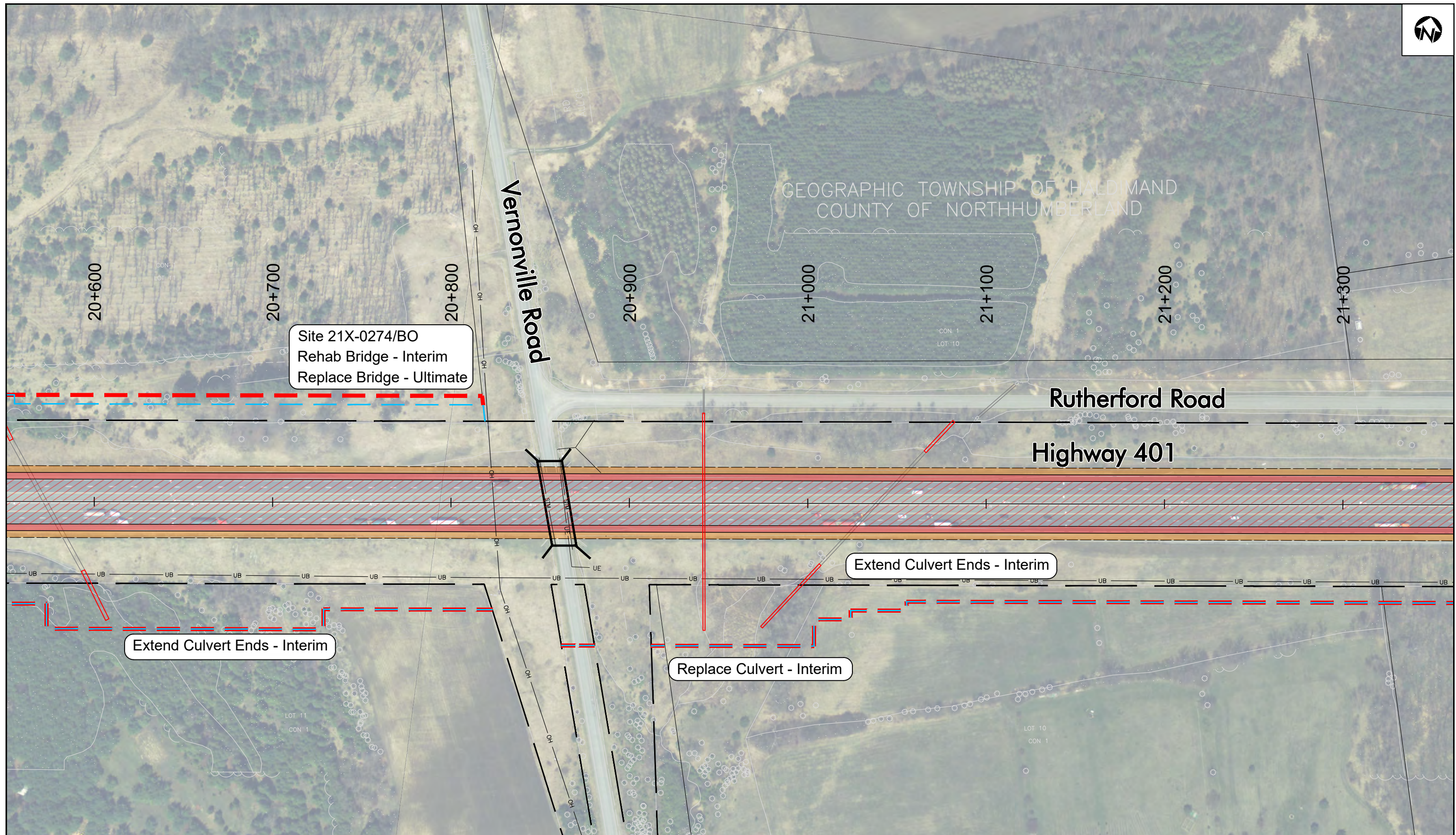
SHEET
37

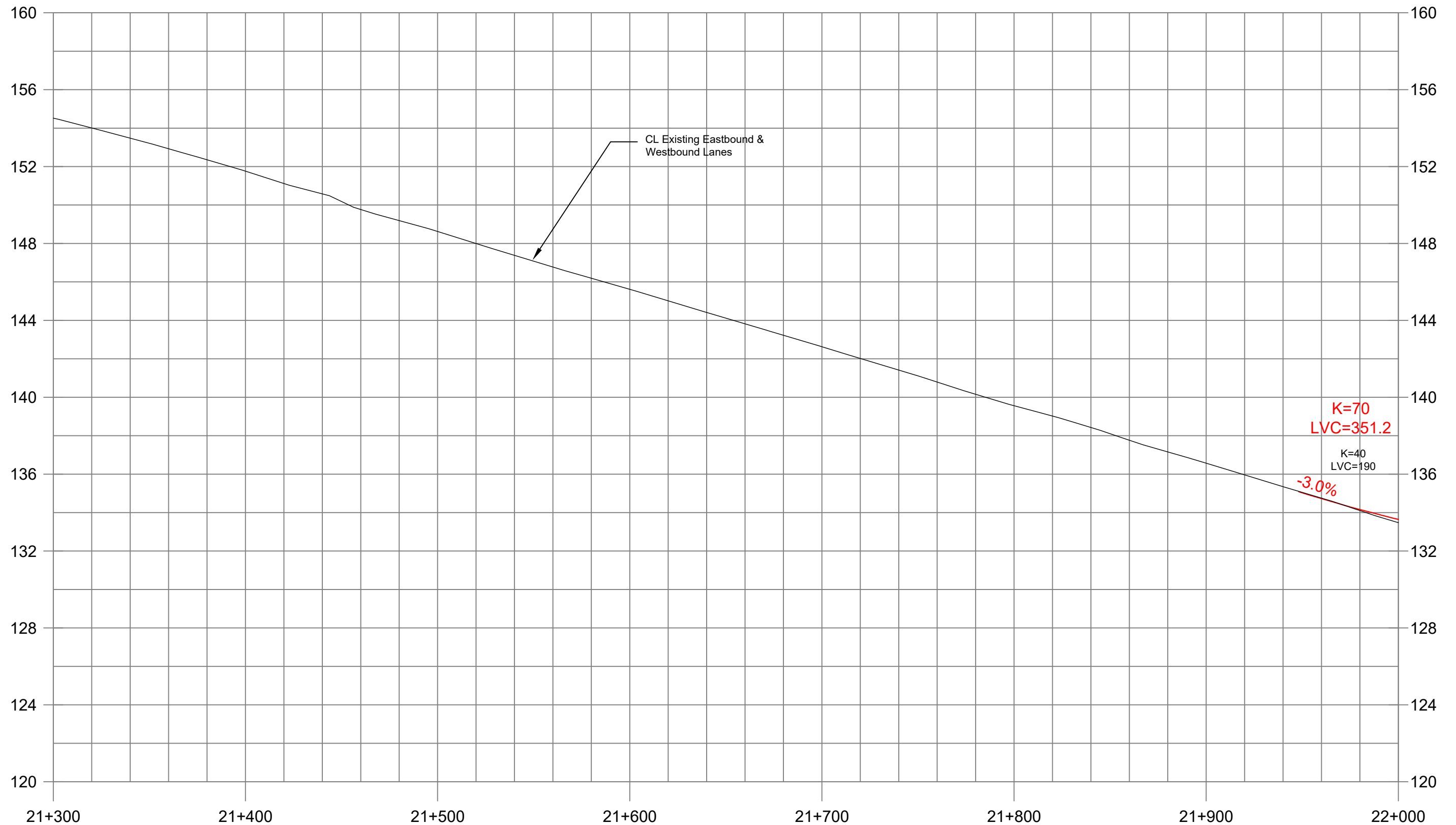
Recommended Profile
 Highway 401
 Sta 20+600 to Sta 21+300
 Haldimand Township

2 m
 20 m
 1:2000

HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00







SHEET
39

Recommended Profile

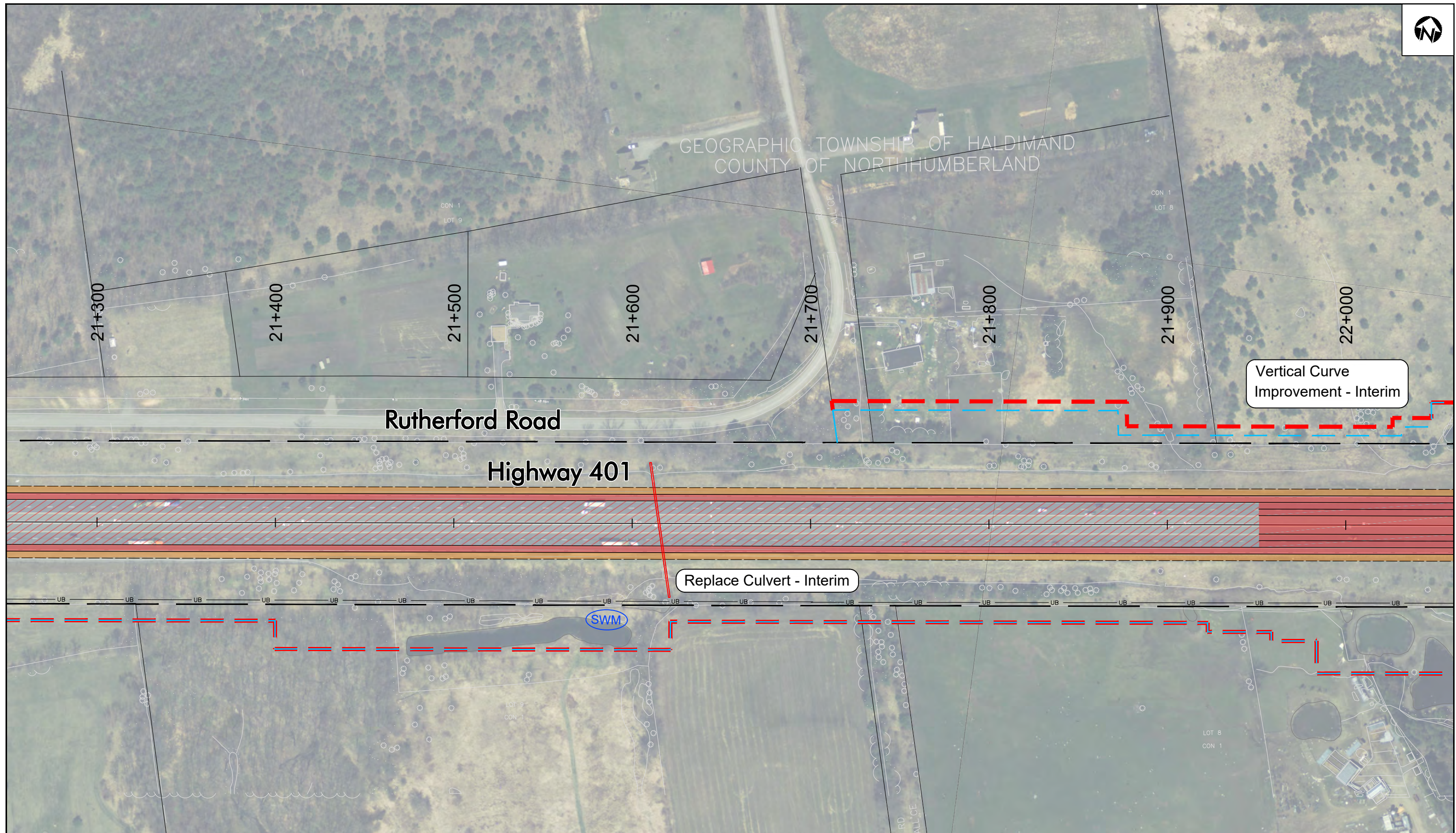
Highway 401
Sta 21+300 to Sta 22+000
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



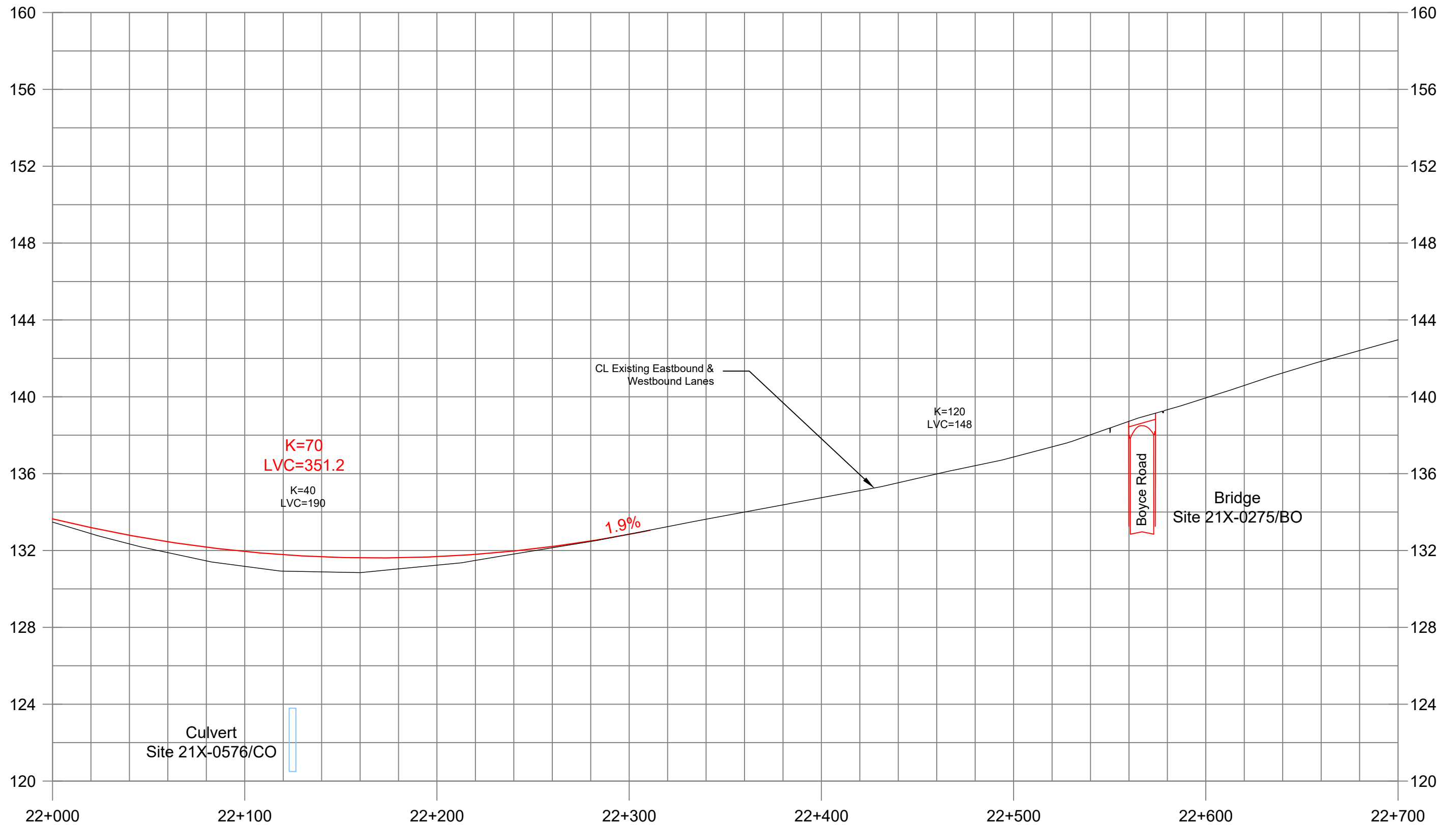


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 21+300 to Sta 22+000
Haldimand Township

SHEET
40



SHEET
41

Recommended Profile

Highway 401
Sta 22+000 to Sta 22+700
Haldimand Township

2 m
20 m
1:2000

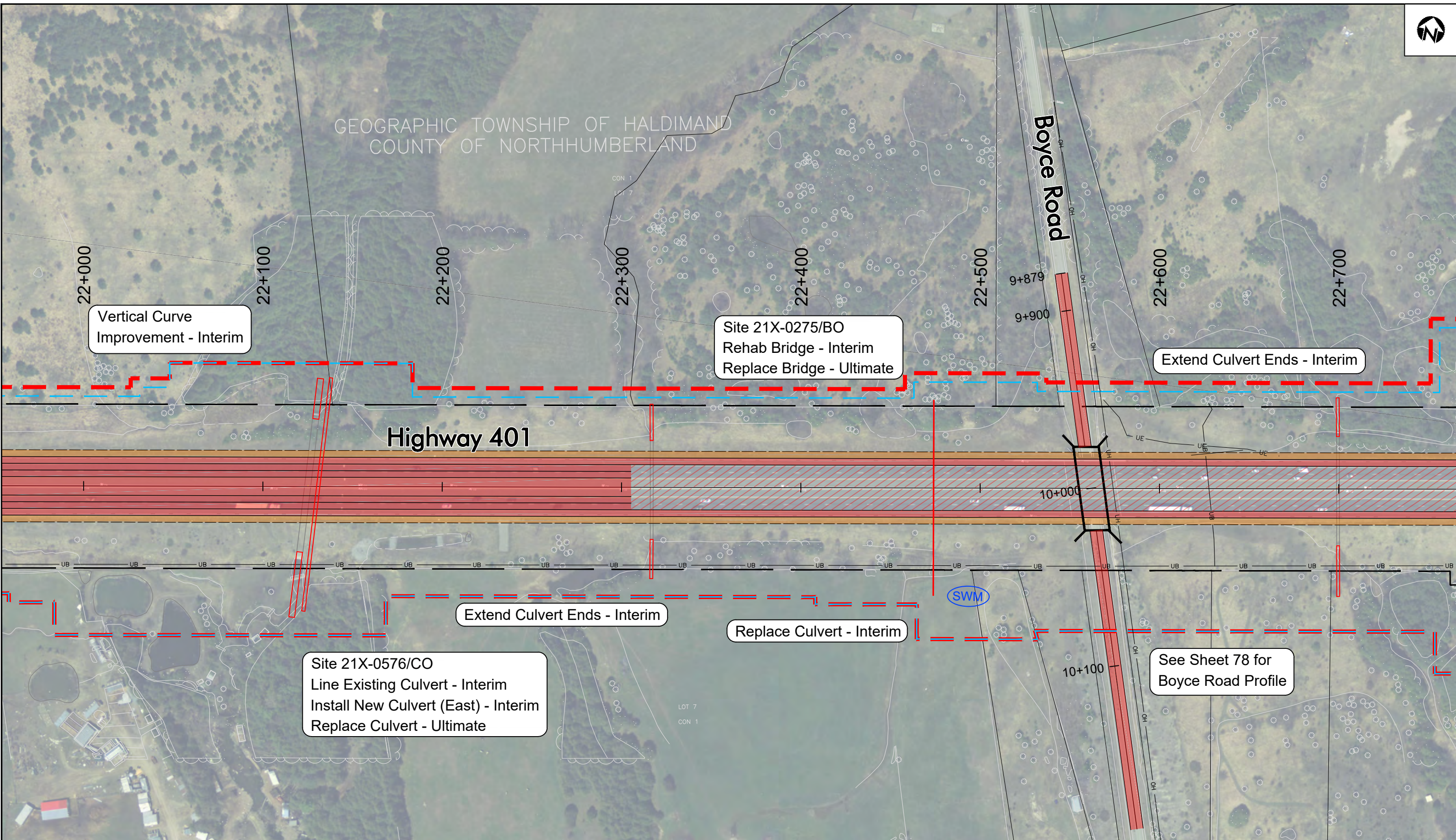
HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00





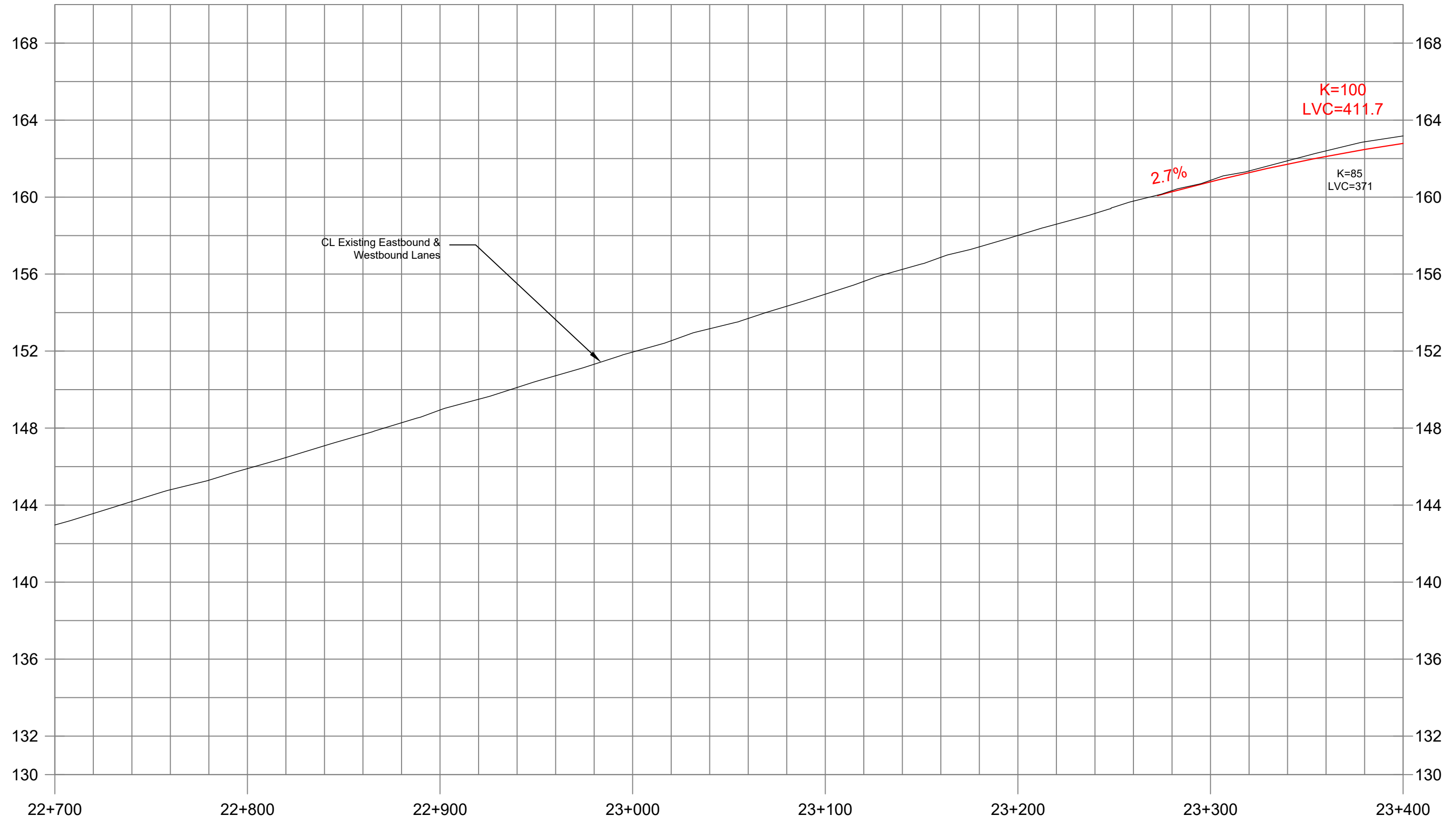
GEOGRAPHIC TOWNSHIP OF HALDIMAND
COUNTY OF NORTHUMBERLAND



HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

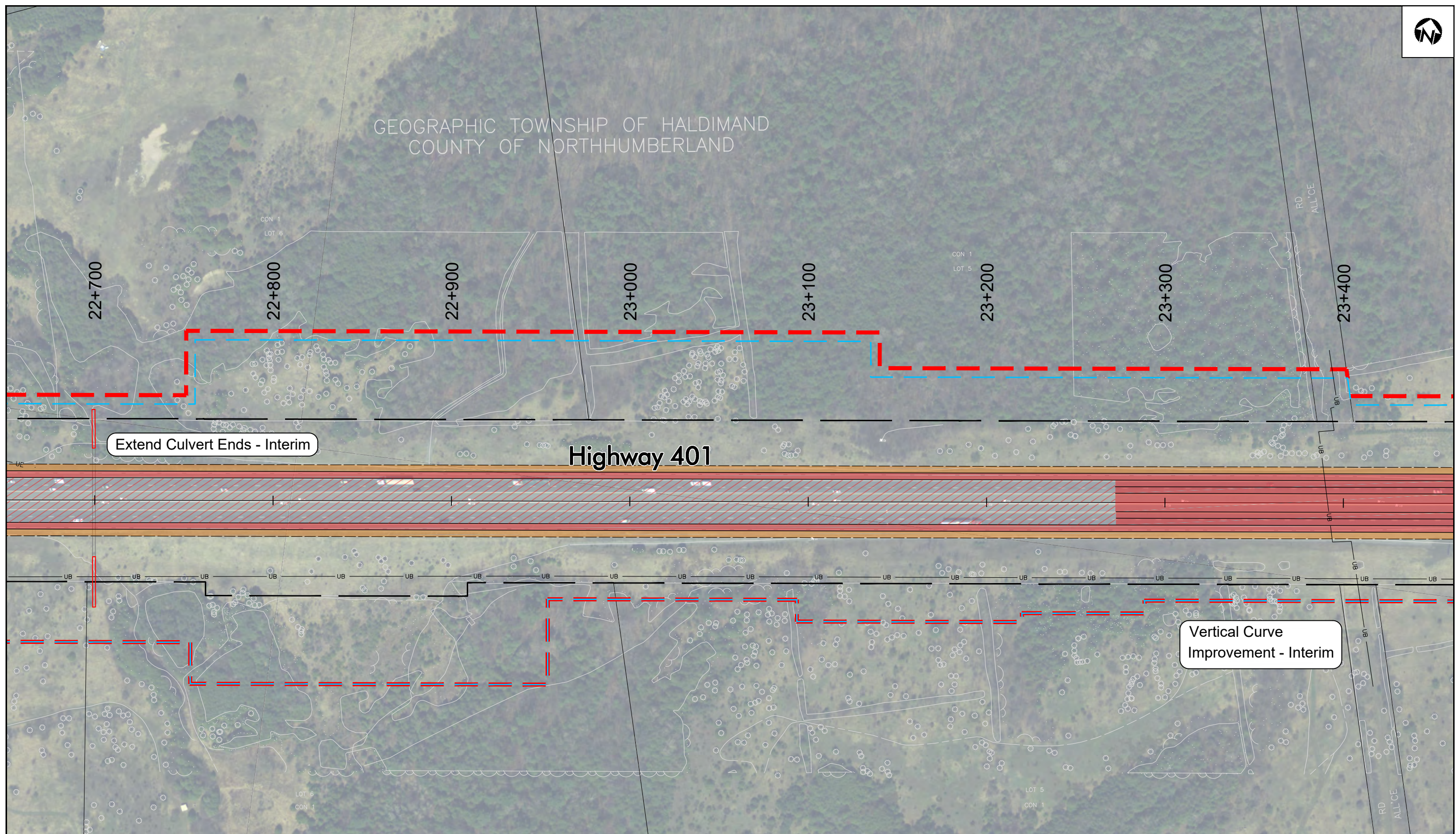
25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 22+000 to Sta 22+700
Haldimand Township





GEOGRAPHIC TOWNSHIP OF HALDIMAND
COUNTY OF NORTHUMBERLAND



Extend Culvert Ends - Interim

Highway 401

Vertical Curve
Improvement - Interim

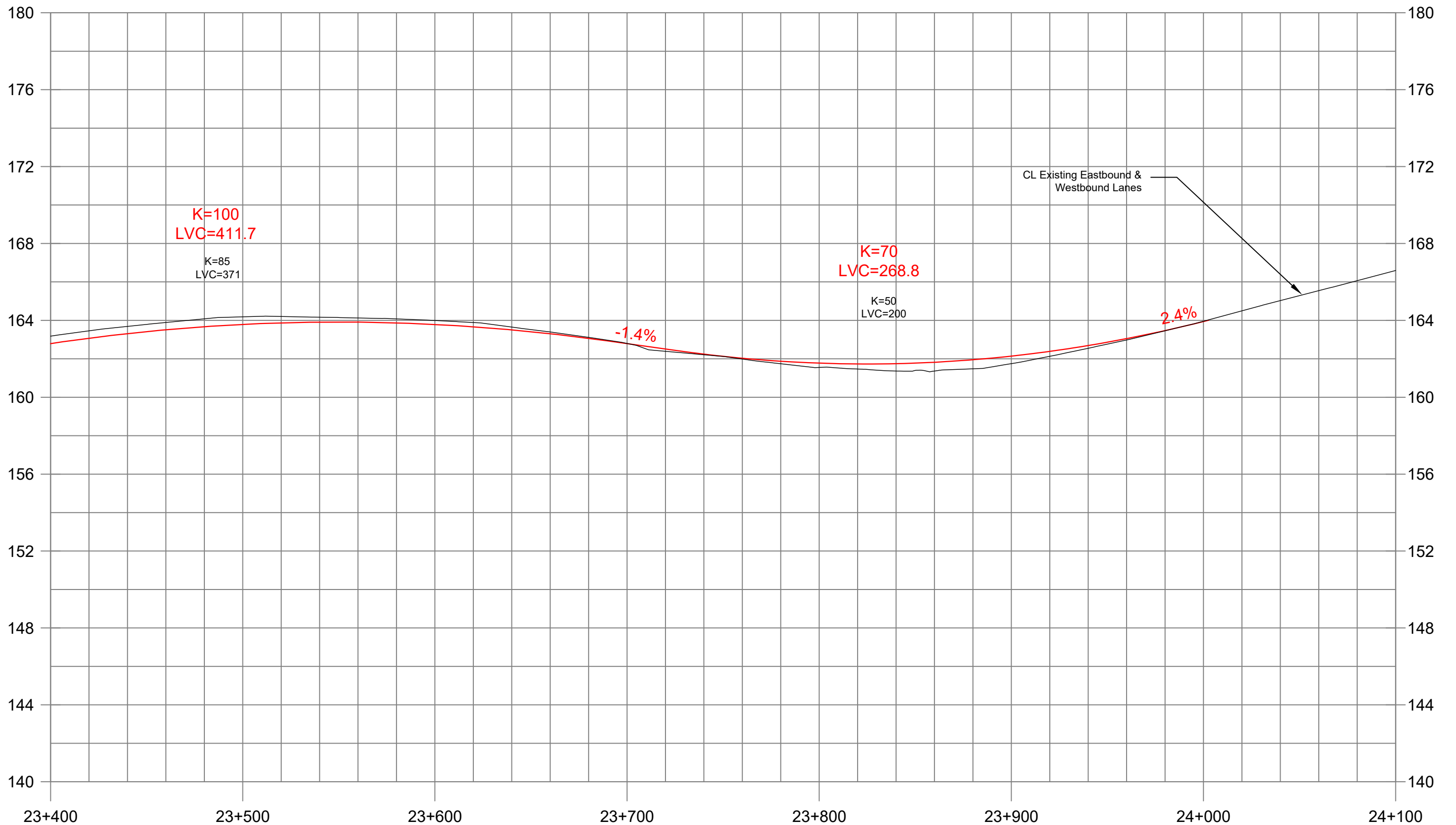


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 22+700 to Sta 23+400
Haldimand Township

SHEET
44



SHEET
45

Recommended Profile

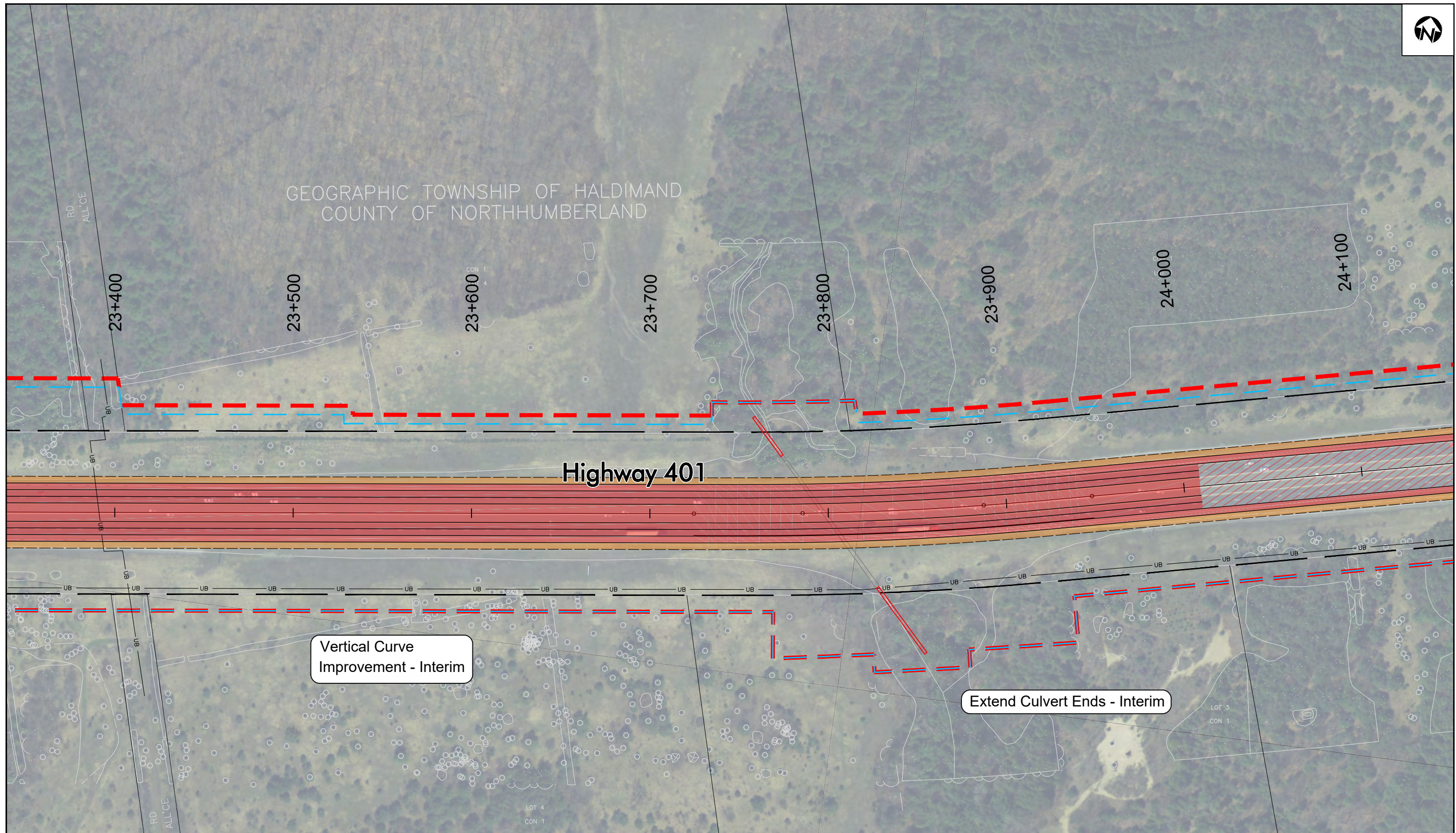
Highway 401
Sta 23+400 to Sta 24+100
Haldimand Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



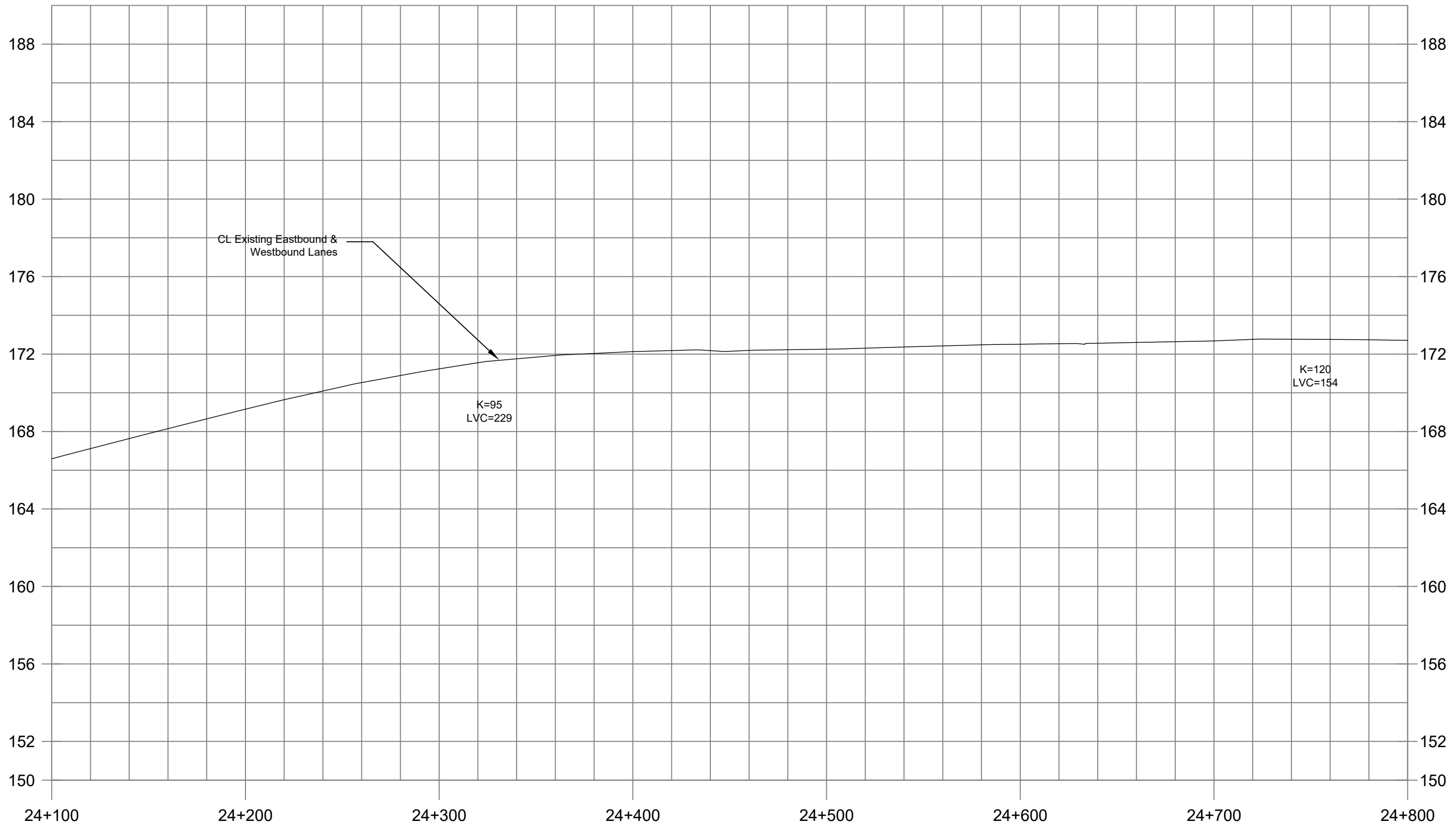


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 23+400 to Sta 24+100
Haldimand Township

SHEET
46



SHEET
47

Recommended Profile

Highway 401
Sta 24+100 to Sta 24+800
Haldimand Township

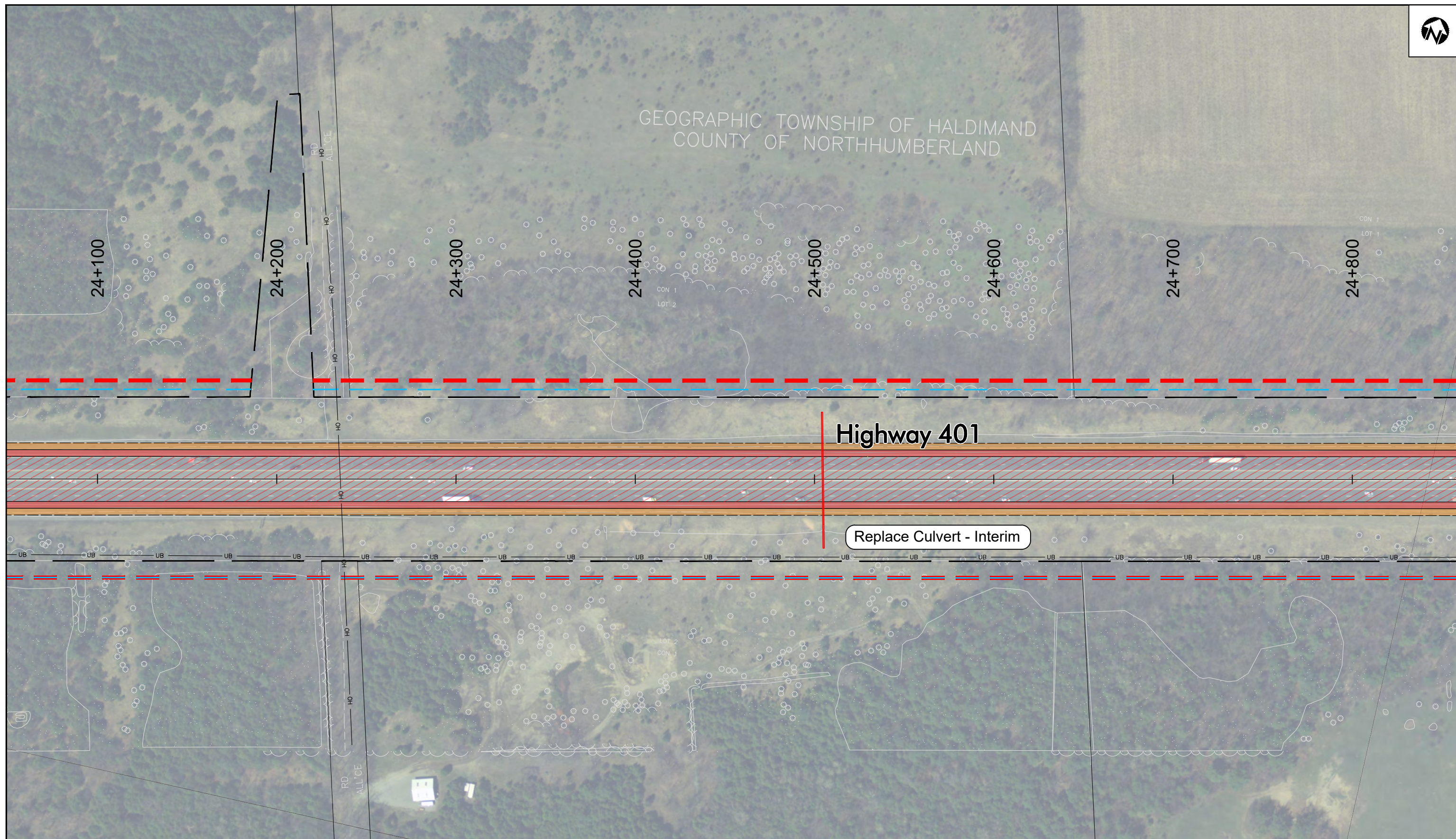
2 m
20 m
1:2000

HIGHWAY 401 Planning Study

from Cobourg to Colborne

Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



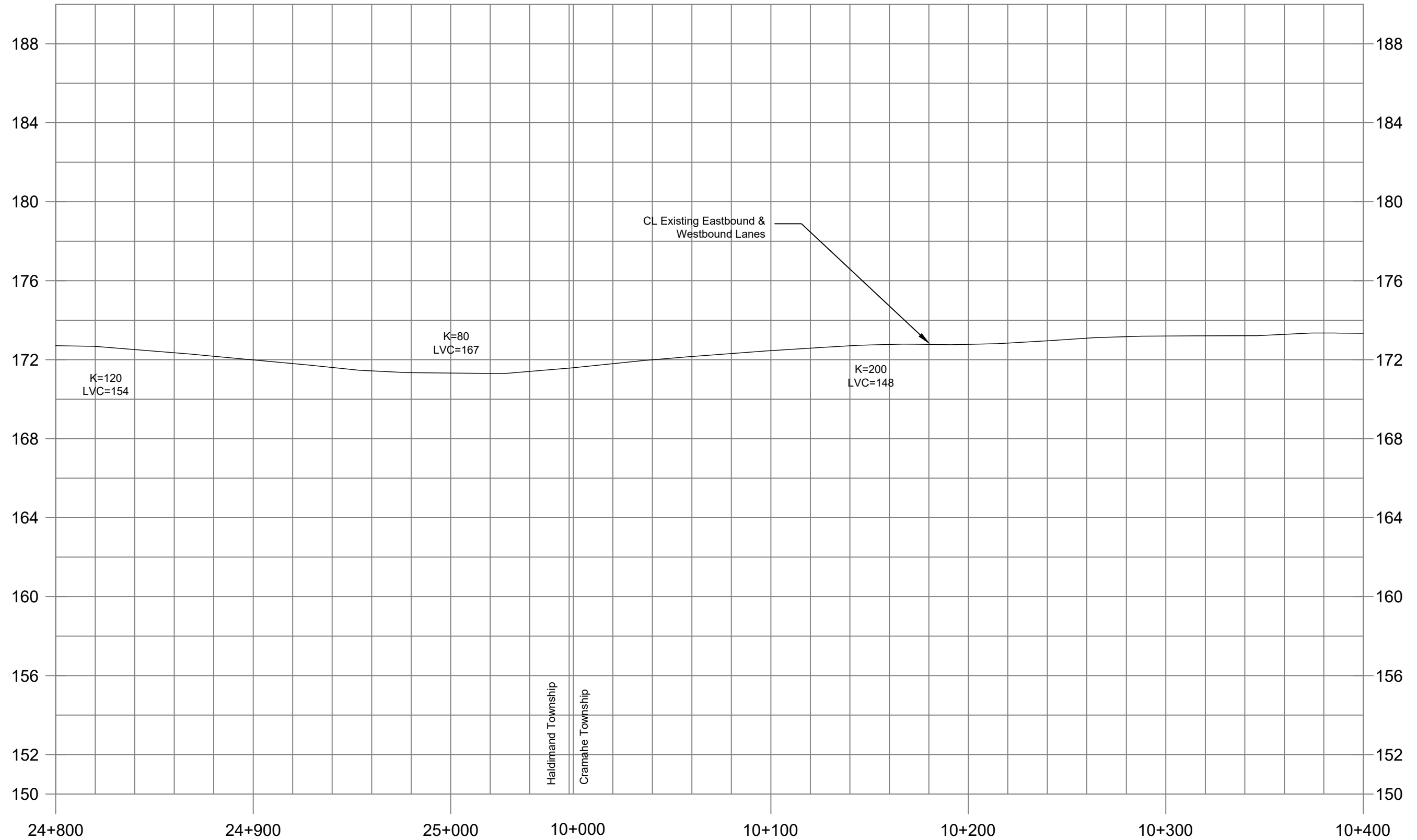


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 24+100 to Sta 24+800
Haldimand Township

SHEET
48



SHEET

49

Recommended Profile

Highway 401

Sta 24+800 to Sta 10+400

Haldimand & Cramahe Townships

2 m
20 m
1:2000

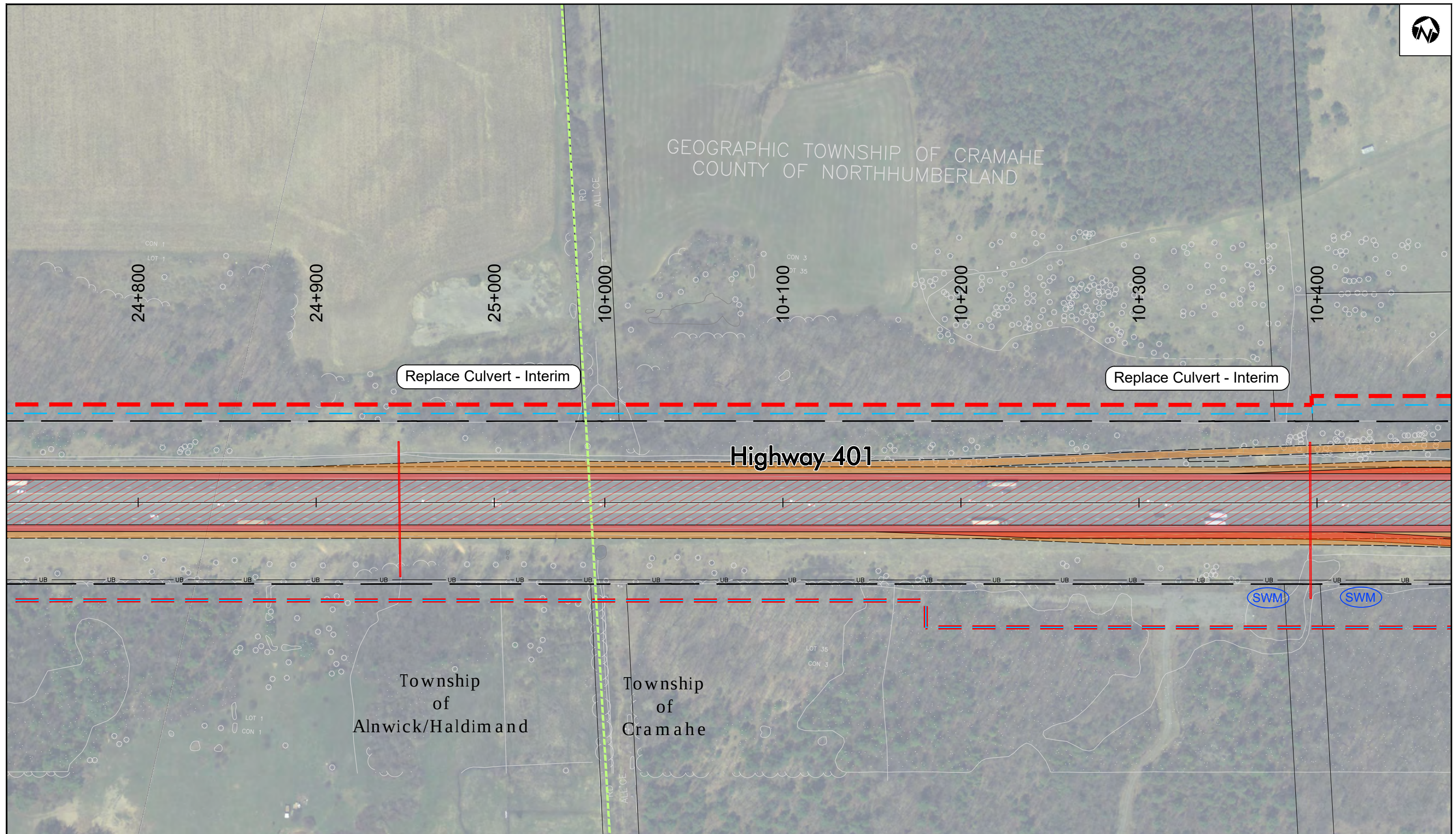
HIGHWAY 401 Planning Study

from Cobourg to Colborne

Preliminary Design &
Class Environmental Assessment

GWP 4060-11-00



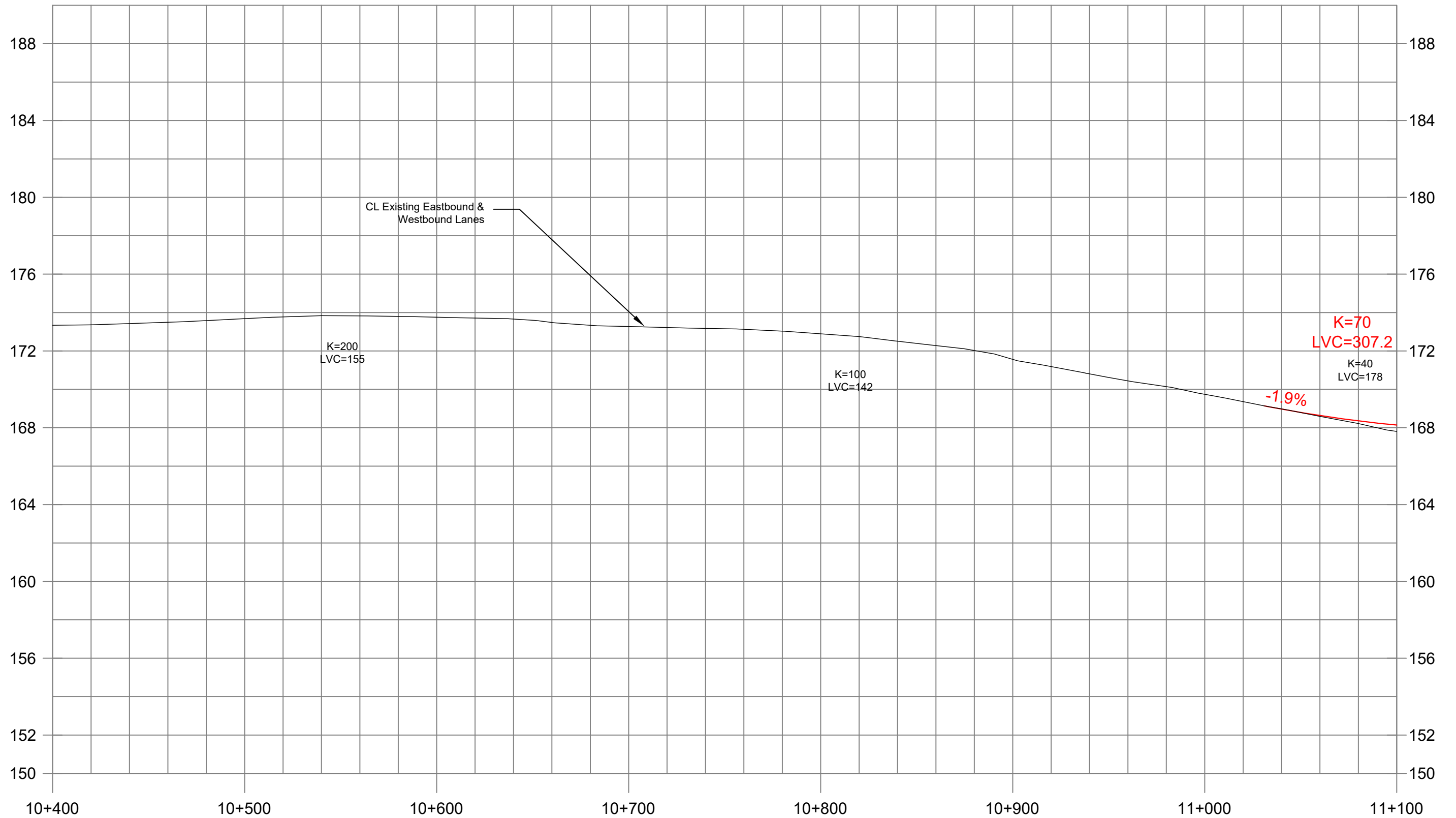


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 24+800 to Sta 10+400
Haldimand & Cramahe Townships

SHEET
50



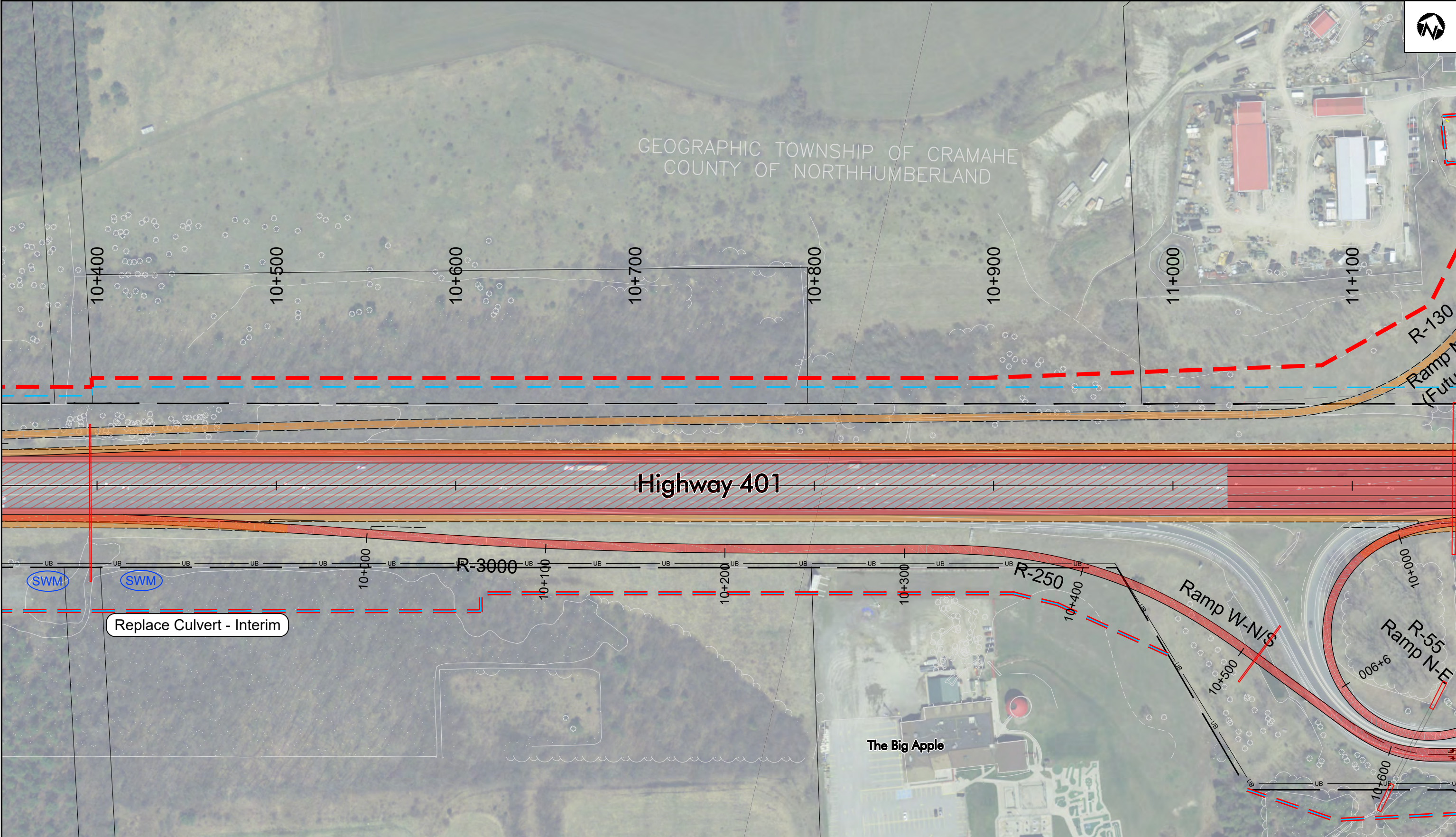
SHEET
51

Recommended Profile
Highway 401
Sta 10+400 to Sta 11+100
Cramahe Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

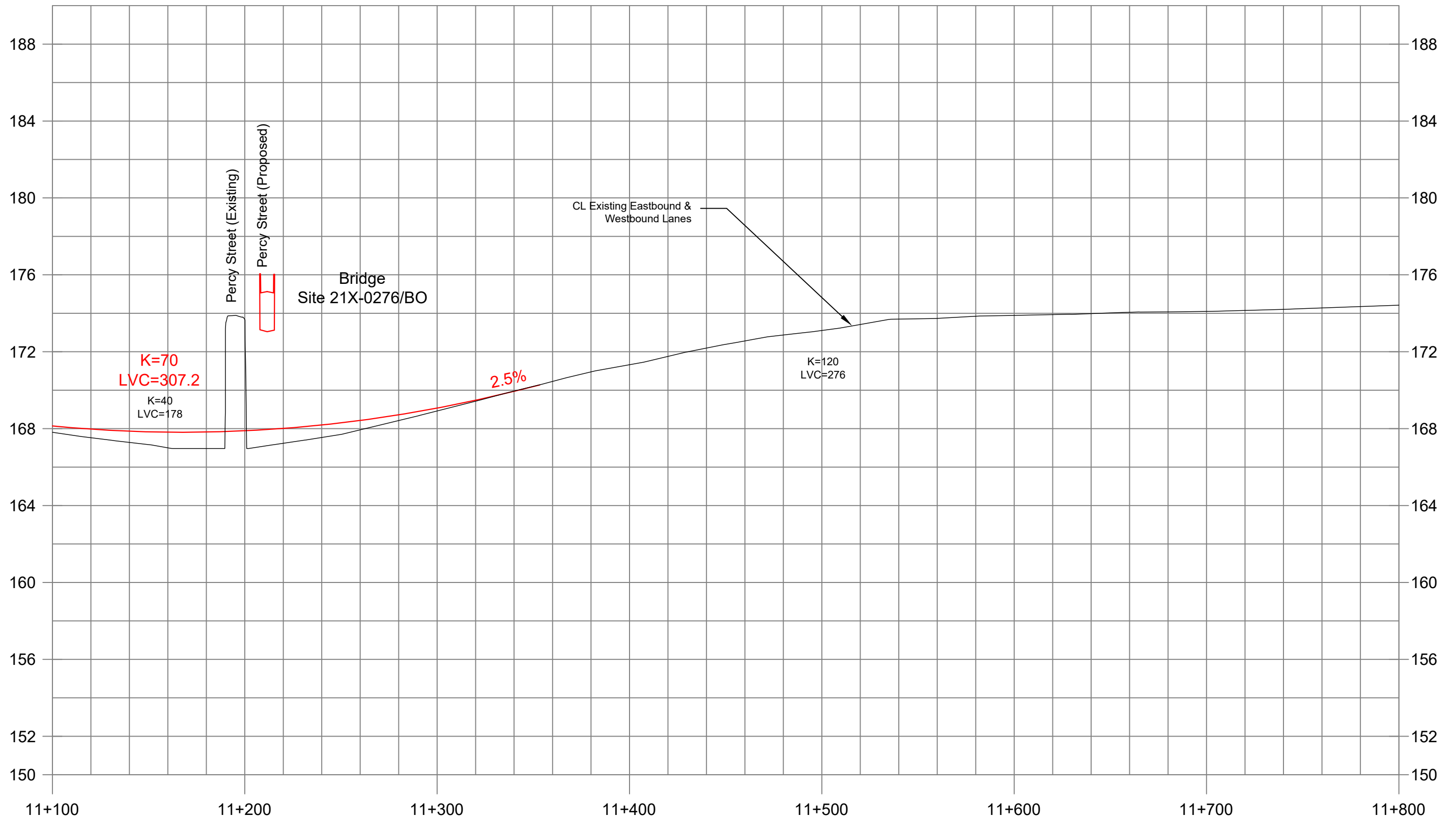




HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

25 m
1:2000

Recommended Plan
HIGHWAY 401
Sta 10+400 to Sta 11+100
Cramahe Township



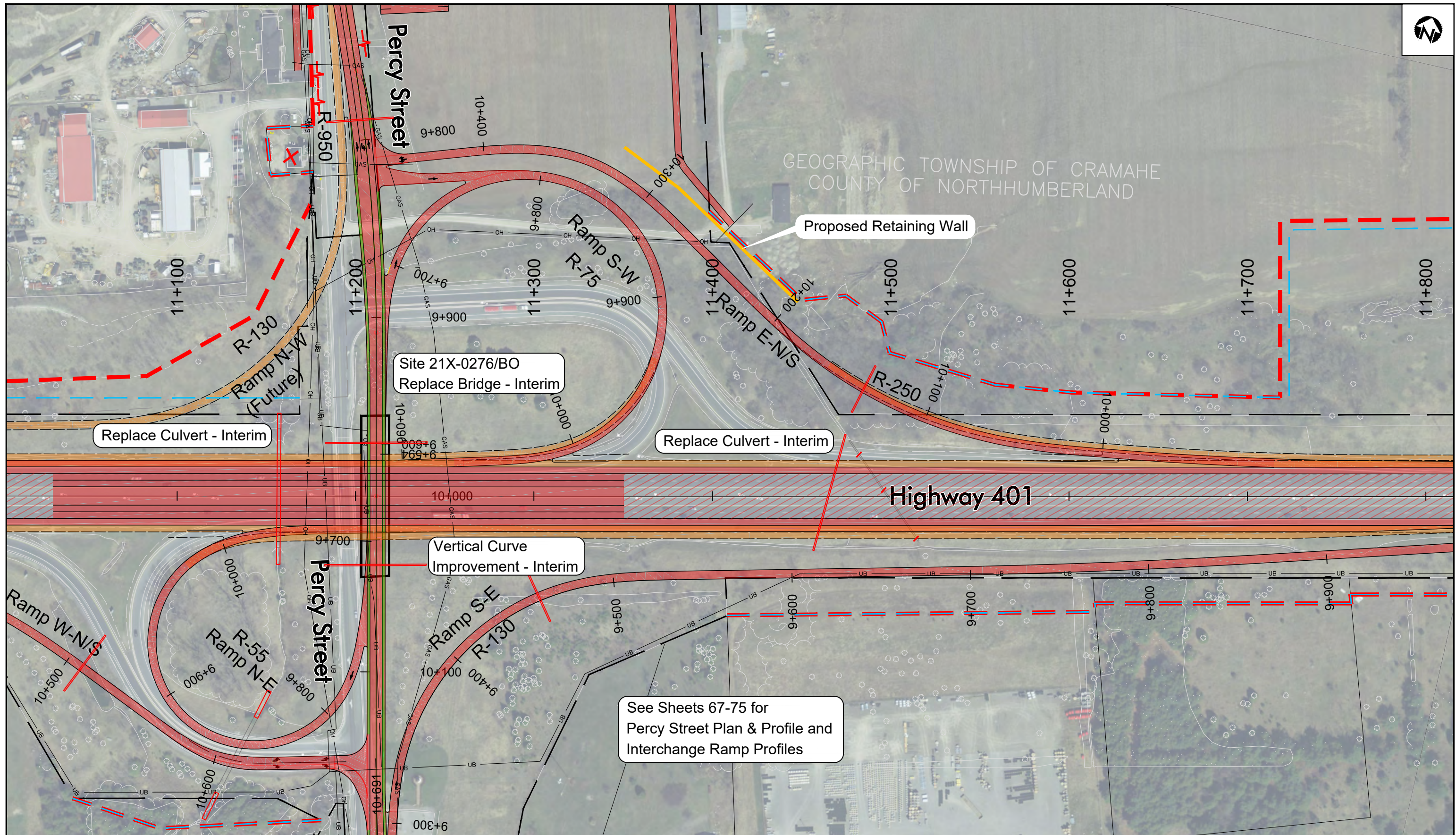
SHEET
53

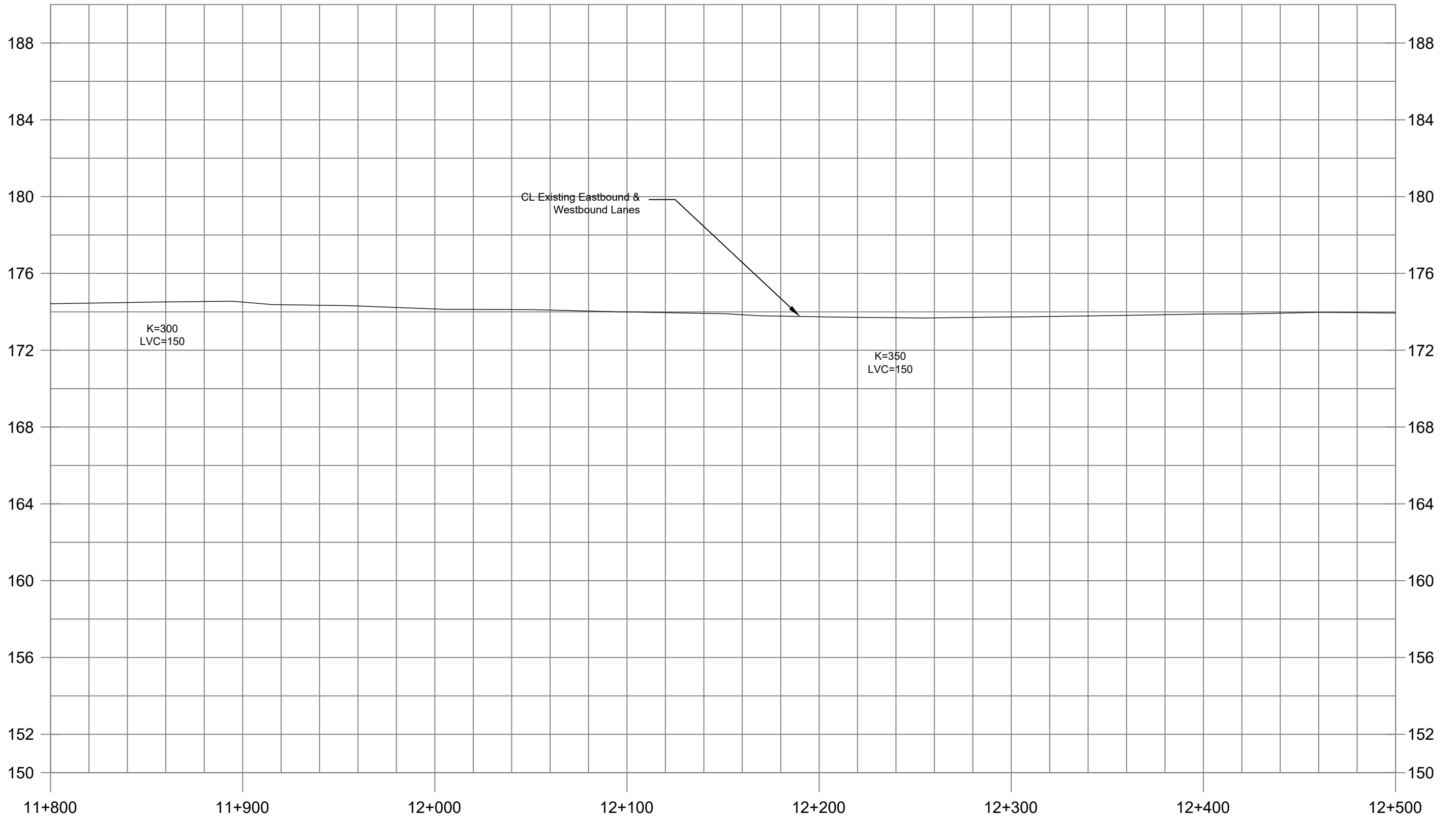
Recommended Profile
Highway 401
Sta 11+100 to Sta 11+800
Cramahe Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







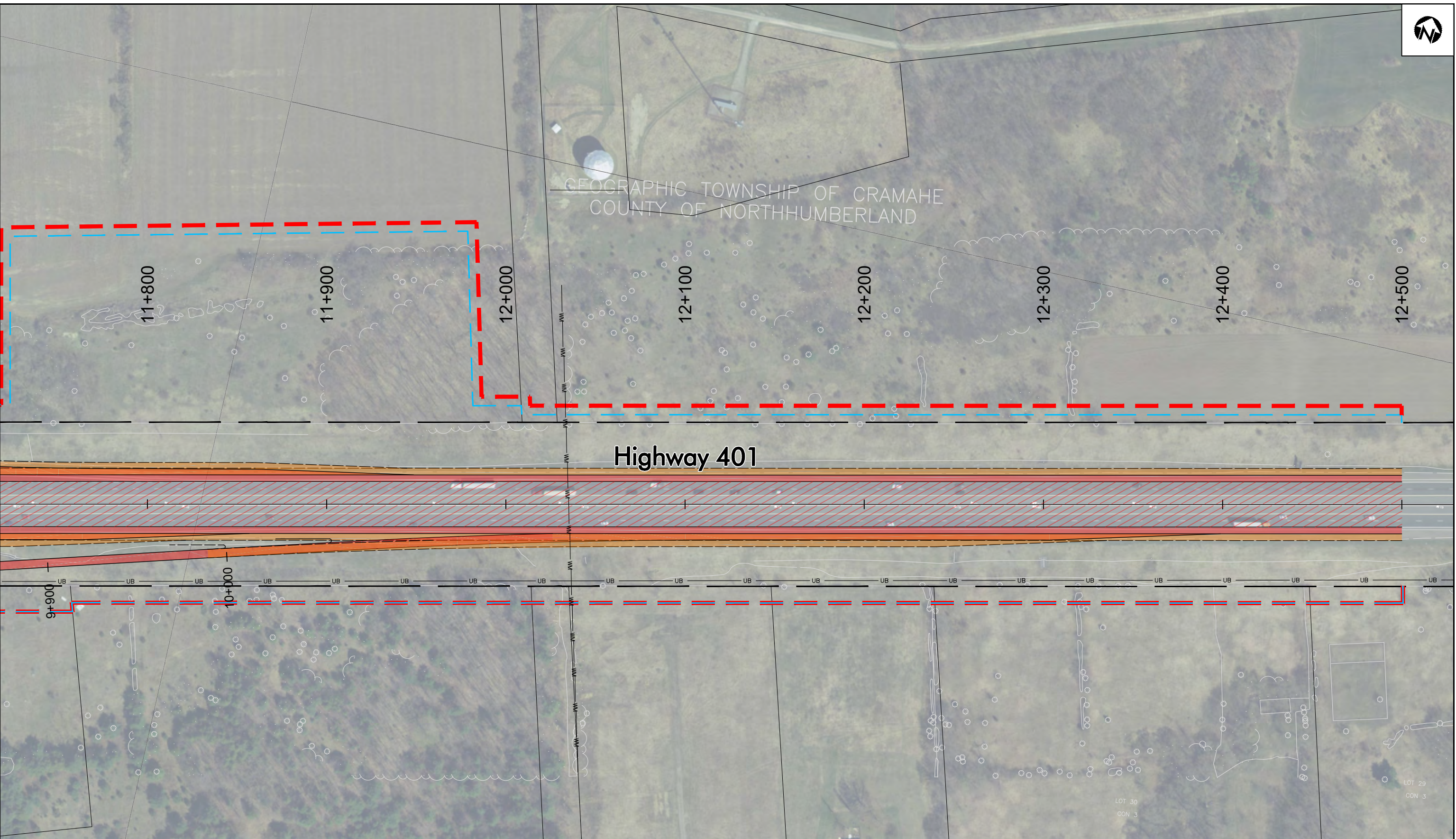
SHEET
55

Recommended Profile
Highway 401
Sta 11+800 to Sta 12+500
Cramahe Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



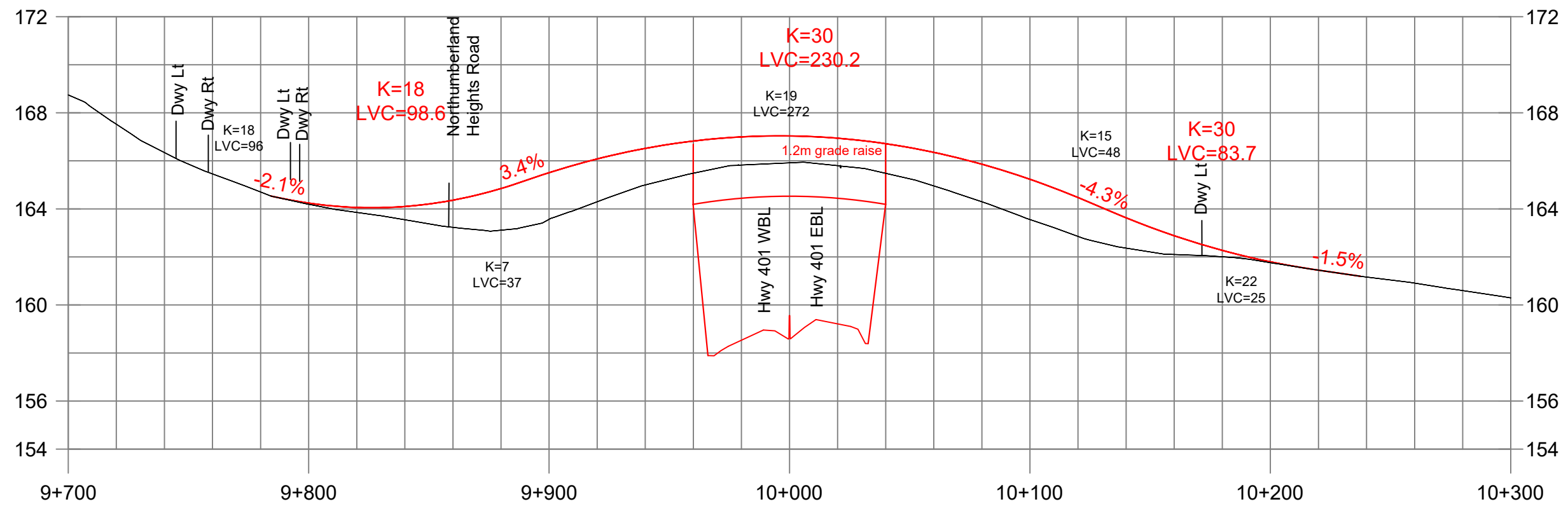


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

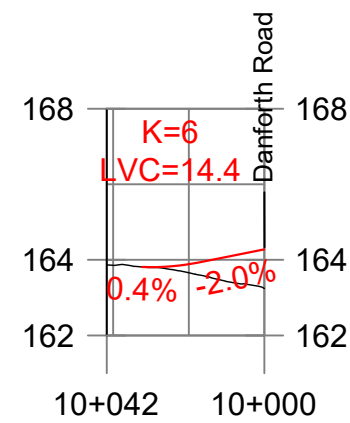
25 m
1:2000

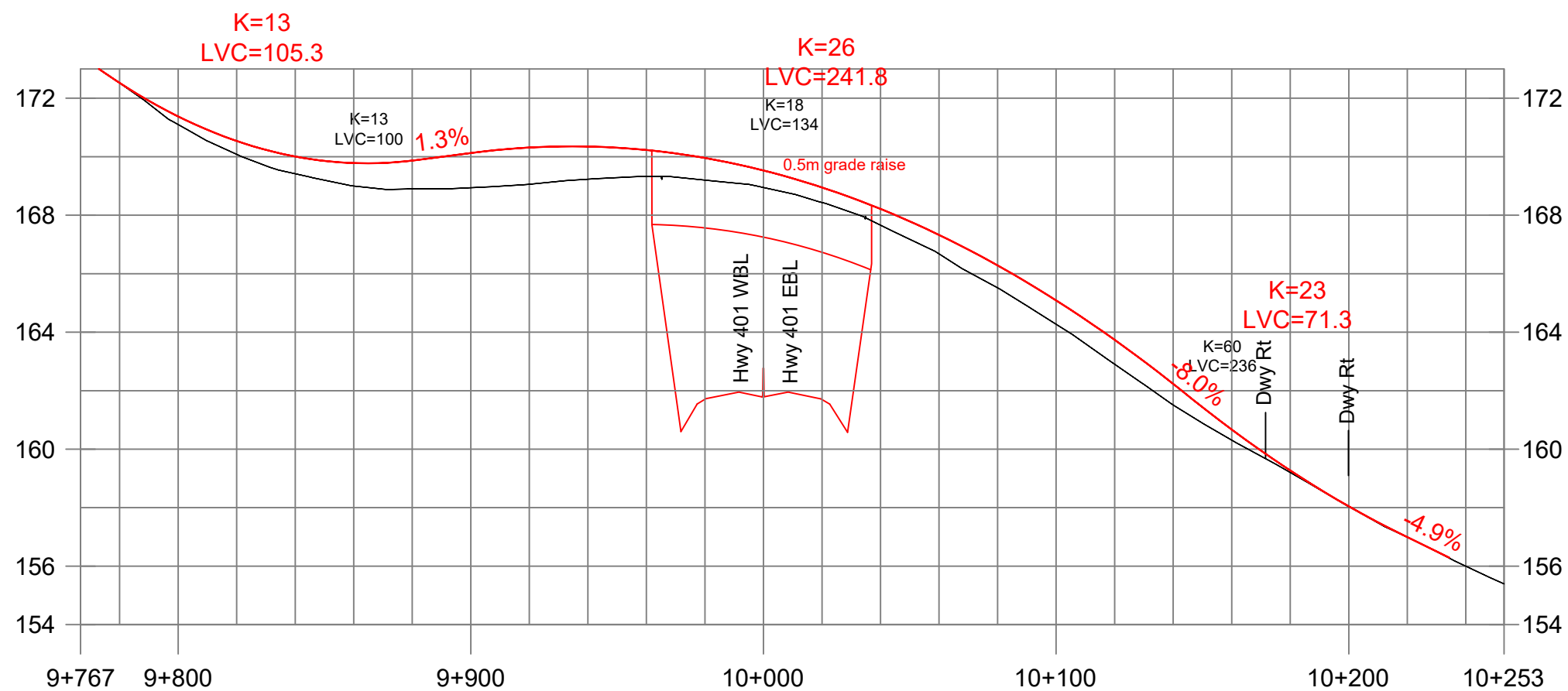
Recommended Plan
HIGHWAY 401
Sta 11+800 to Sta 12+500
Cramahe Township

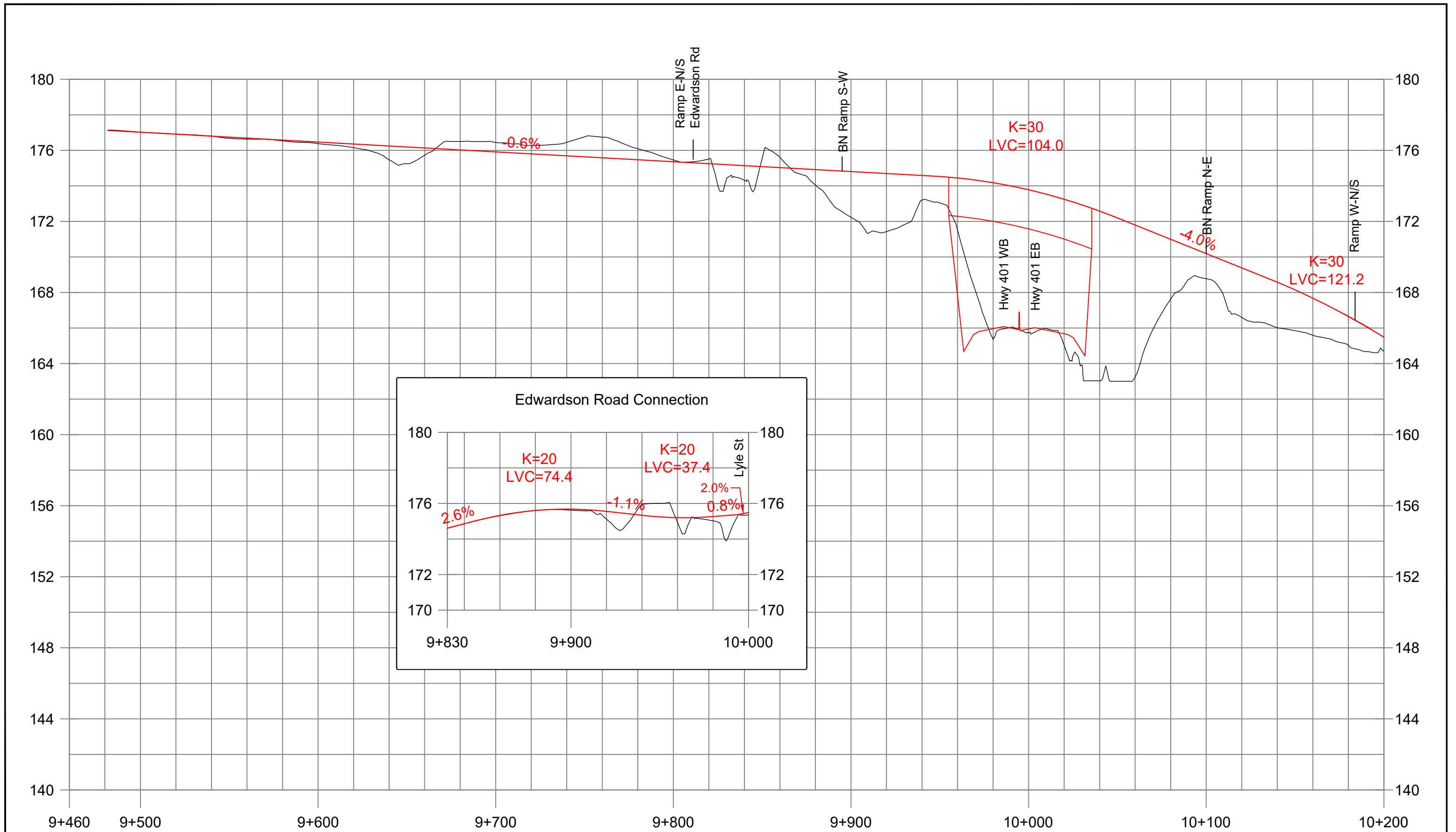
SHEET
56



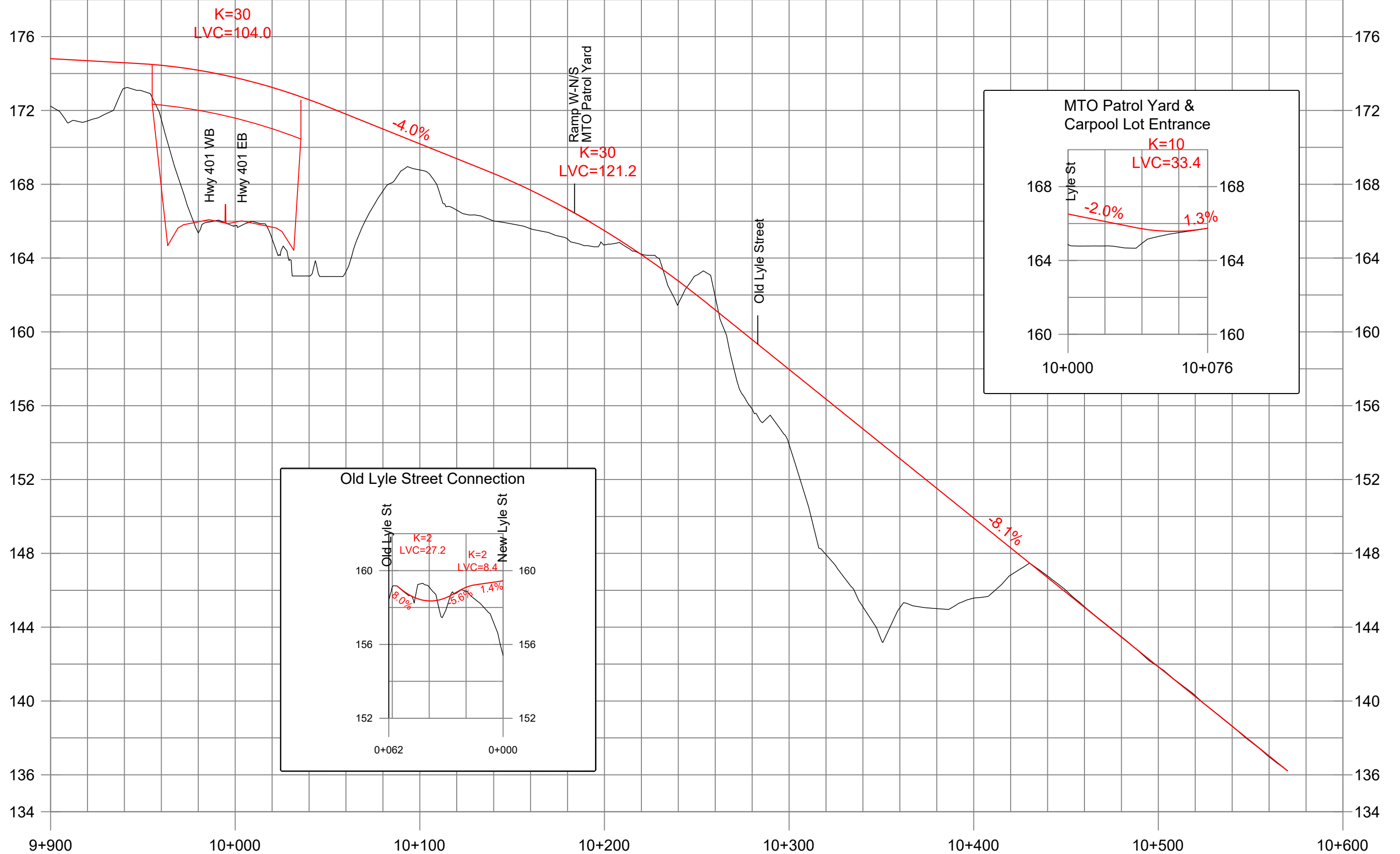
Northumberland Heights Road Connection

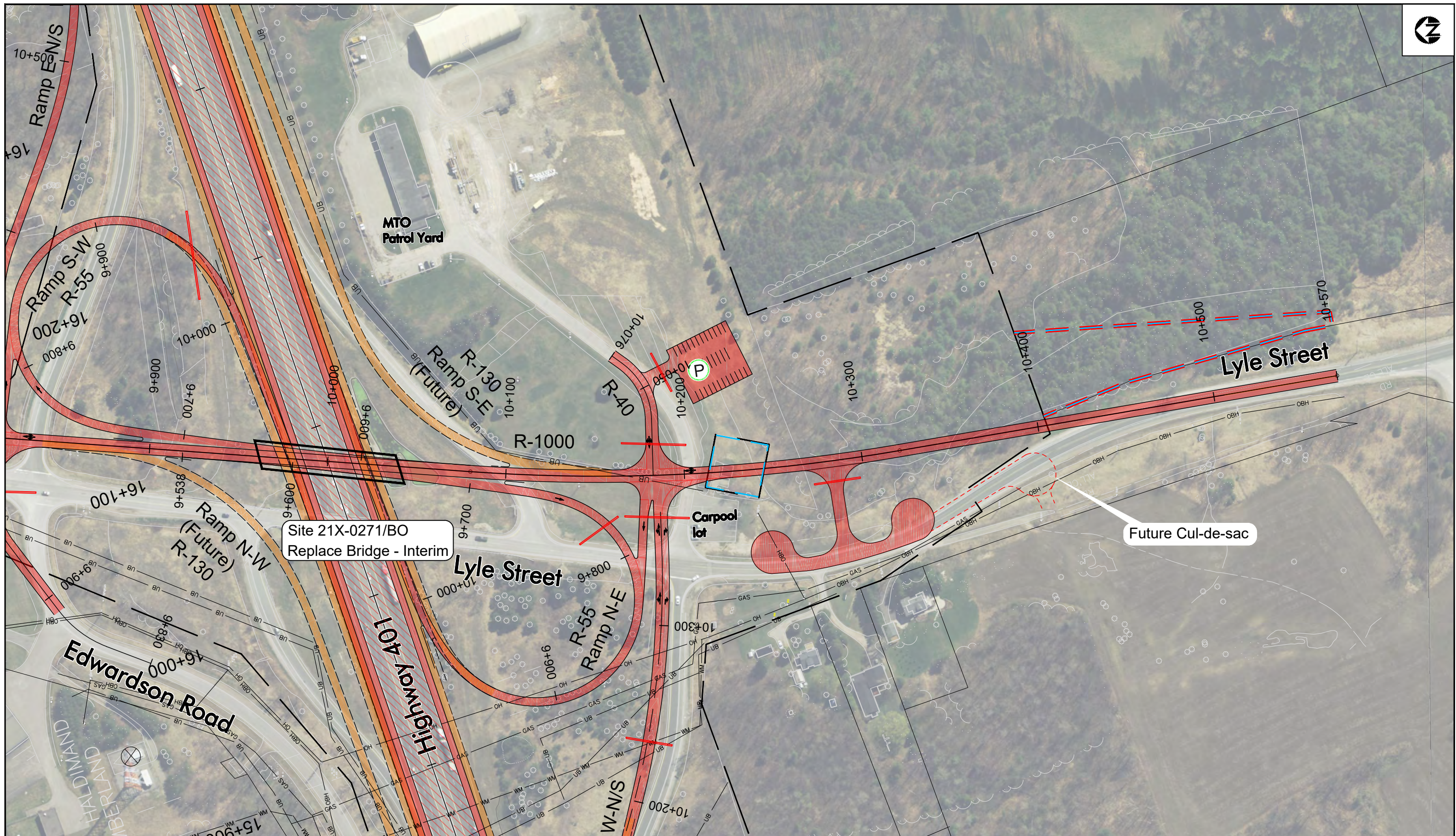










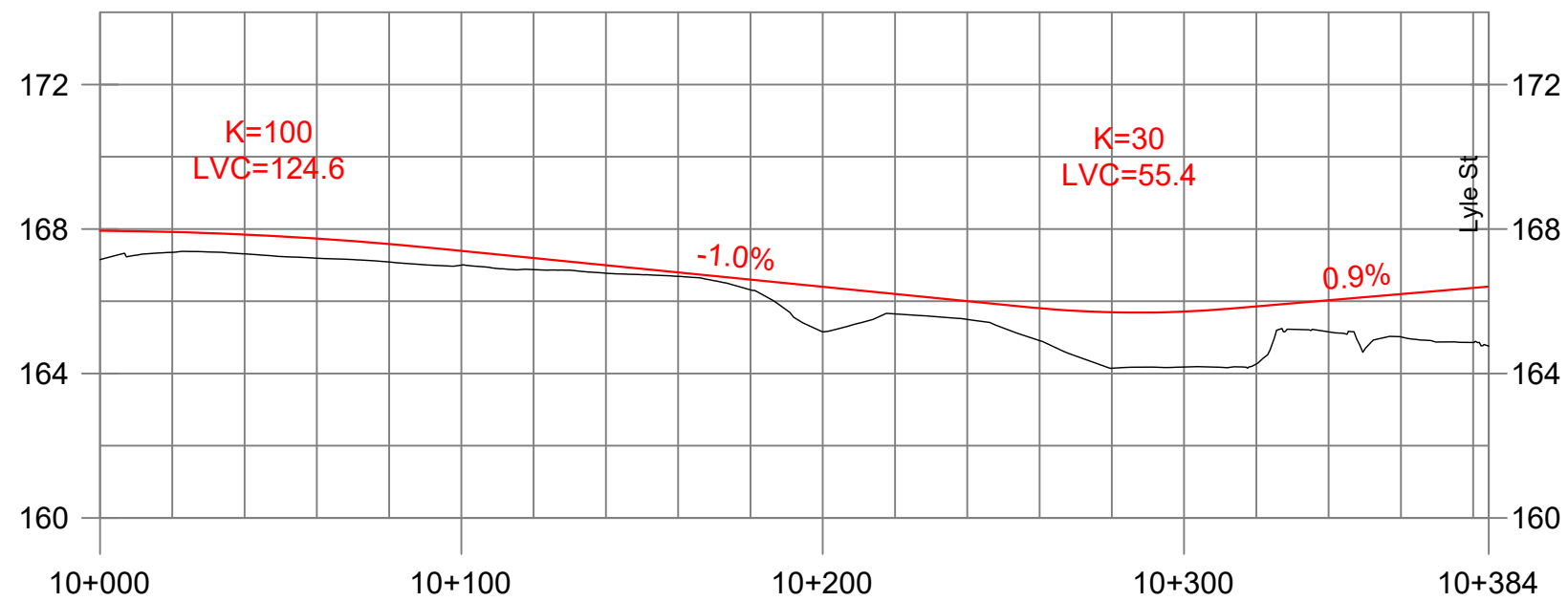


HIGHWAY 401 Planning Study
 from Cobourg to Colborne
 Preliminary Design &
 Class Environmental Assessment
 GWP 4060-11-00

25 m
 1:2000

Recommended Plan
 Lyle Street (County Road 23)
 Sta 9+900 to Sta 10+570
 Haldimand Township

SHEET
62



SHEET

63

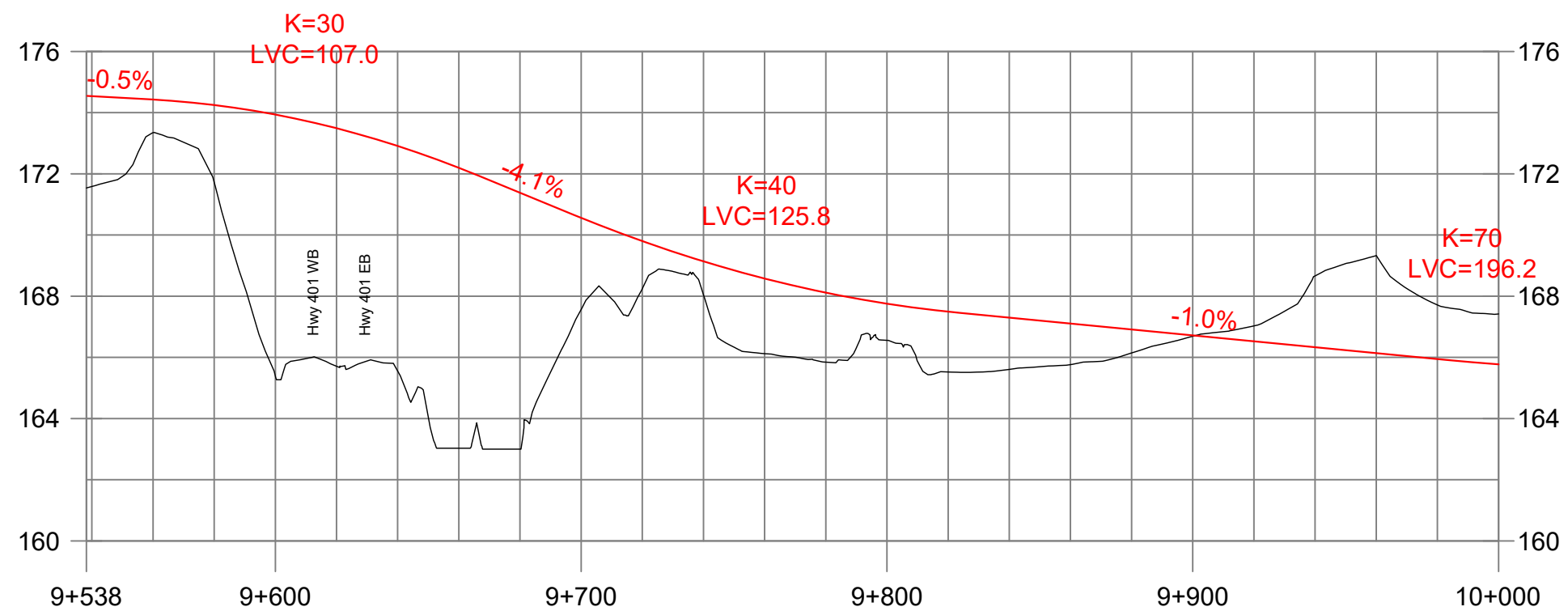
Recommended Profile

Ramp W-N/S (Lyle Street Interchange)
Sta 10+000 to Sta 10+384
Haldimand Township

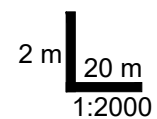
2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



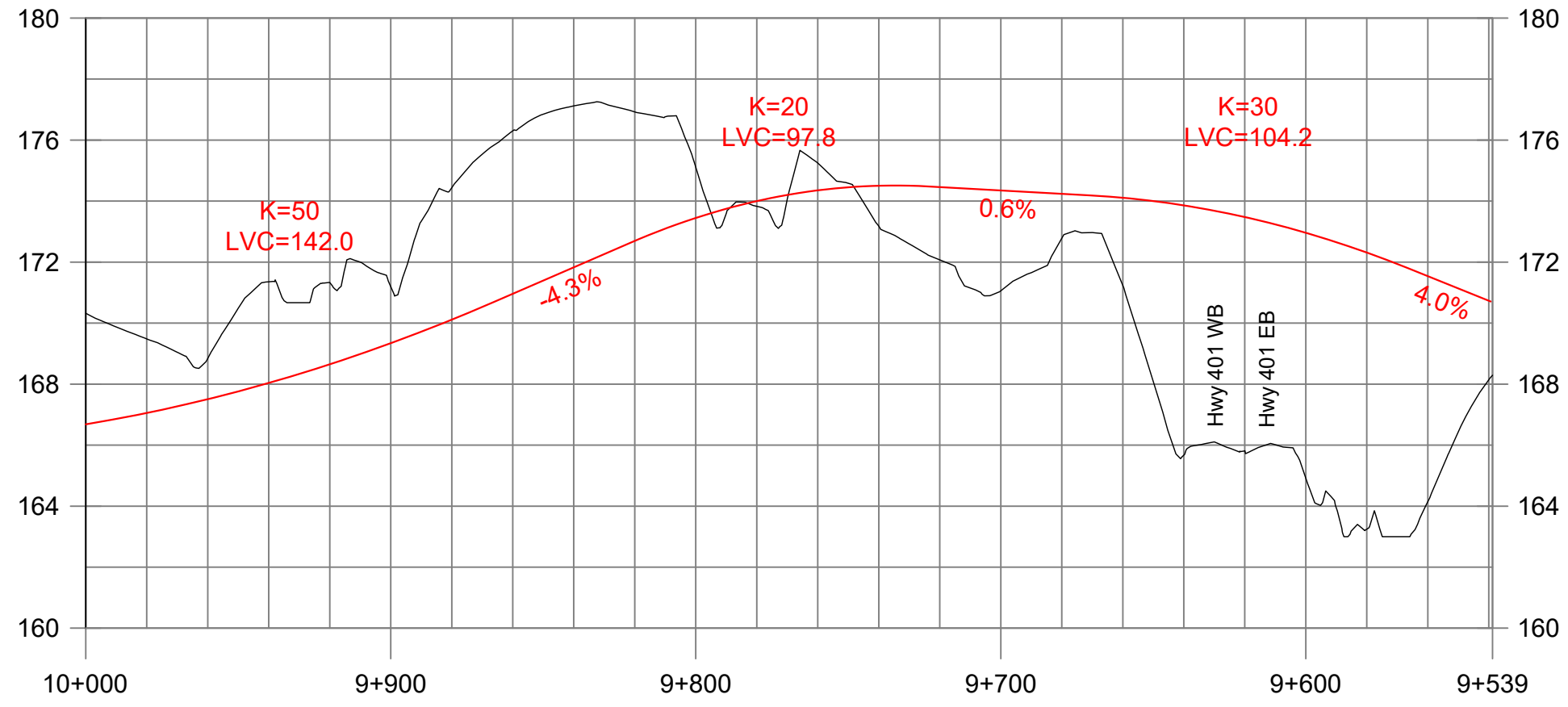


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



Recommended Profile
Ramp N-E (Lyle Street Interchange)
Sta 9+538 to Sta 10+000
Haldimand Township

SHEET
64



SHEET
65

Recommended Profile

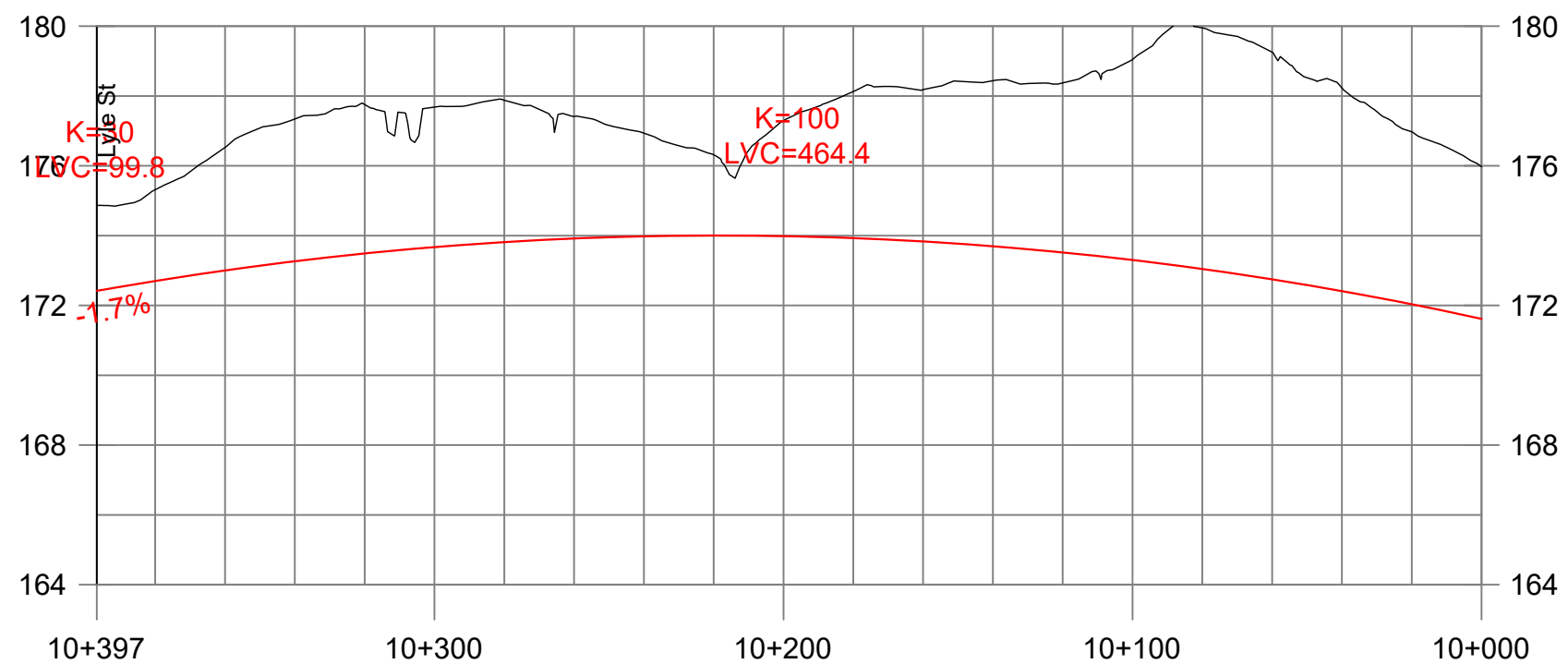
Ramp S-W (Lyle Street Interchange)
Sta 9+539 to Sta 10+000
Haldimand Township

2 m
20 m
1:2000

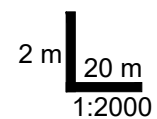
HIGHWAY 401 Planning Study

from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



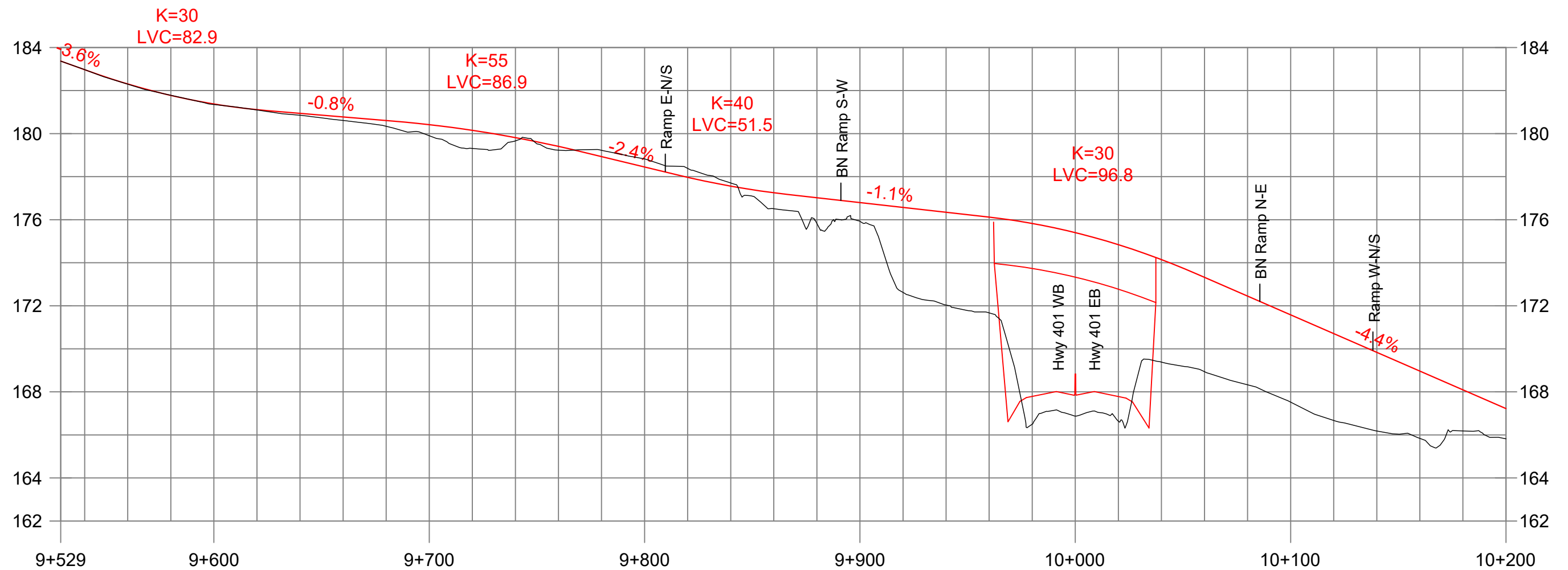


HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



Recommended Profile
Ramp E-N/S (Lyle Street Interchange)
Sta 10+000 to Sta 10+397
Haldimand Township

SHEET
66



SHEET
67

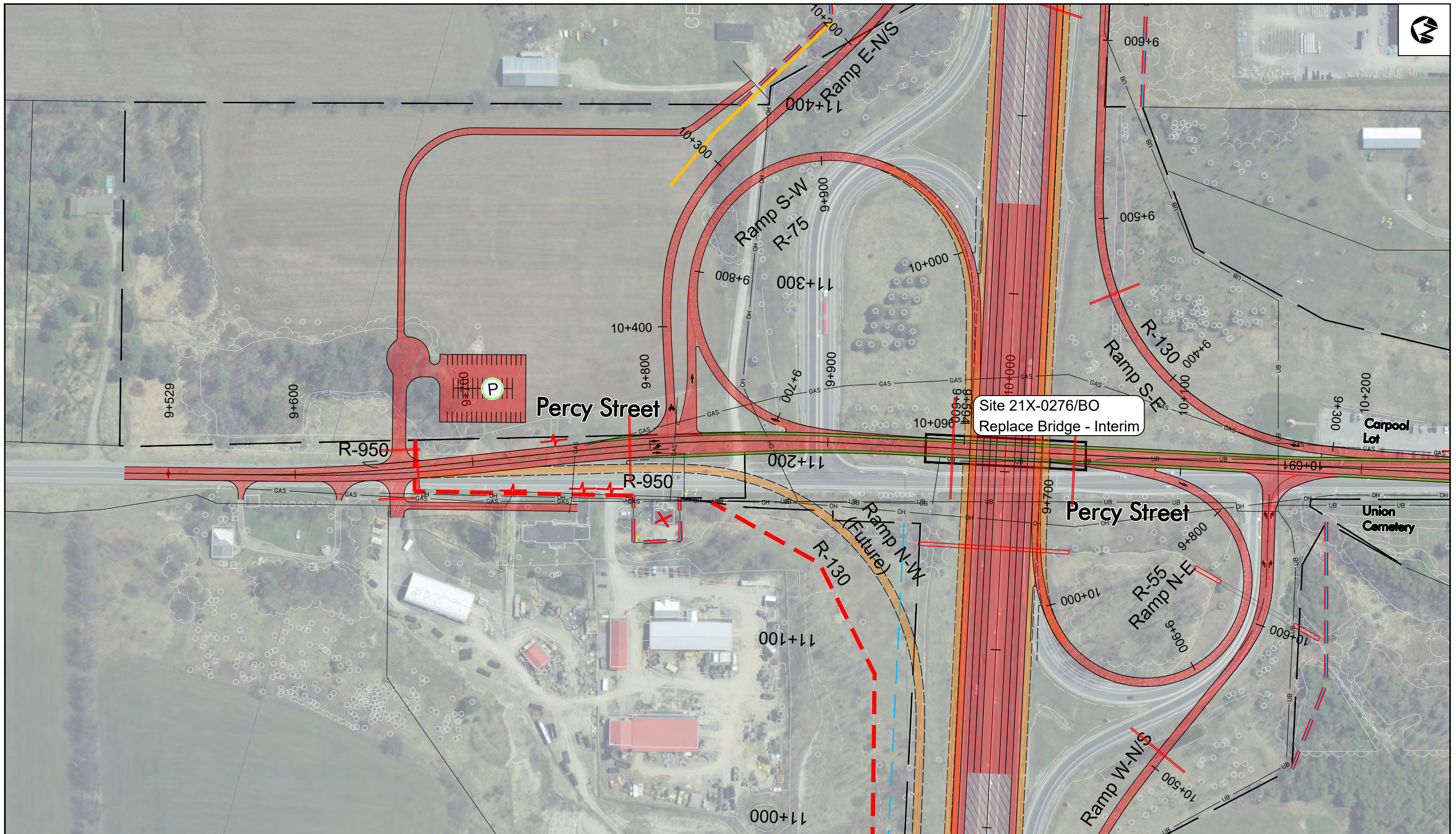
Recommended Profile

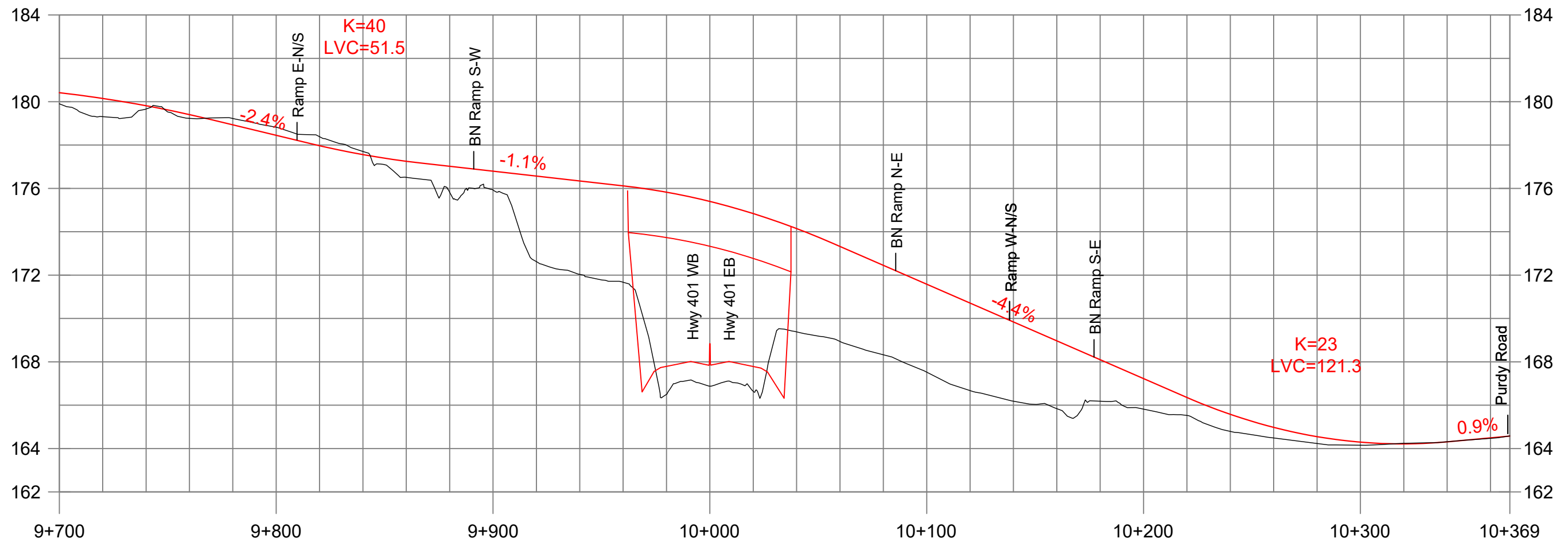
Percy Street (County Road 25)
Sta 9+529 to Sta 10+200
Cramahe Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00







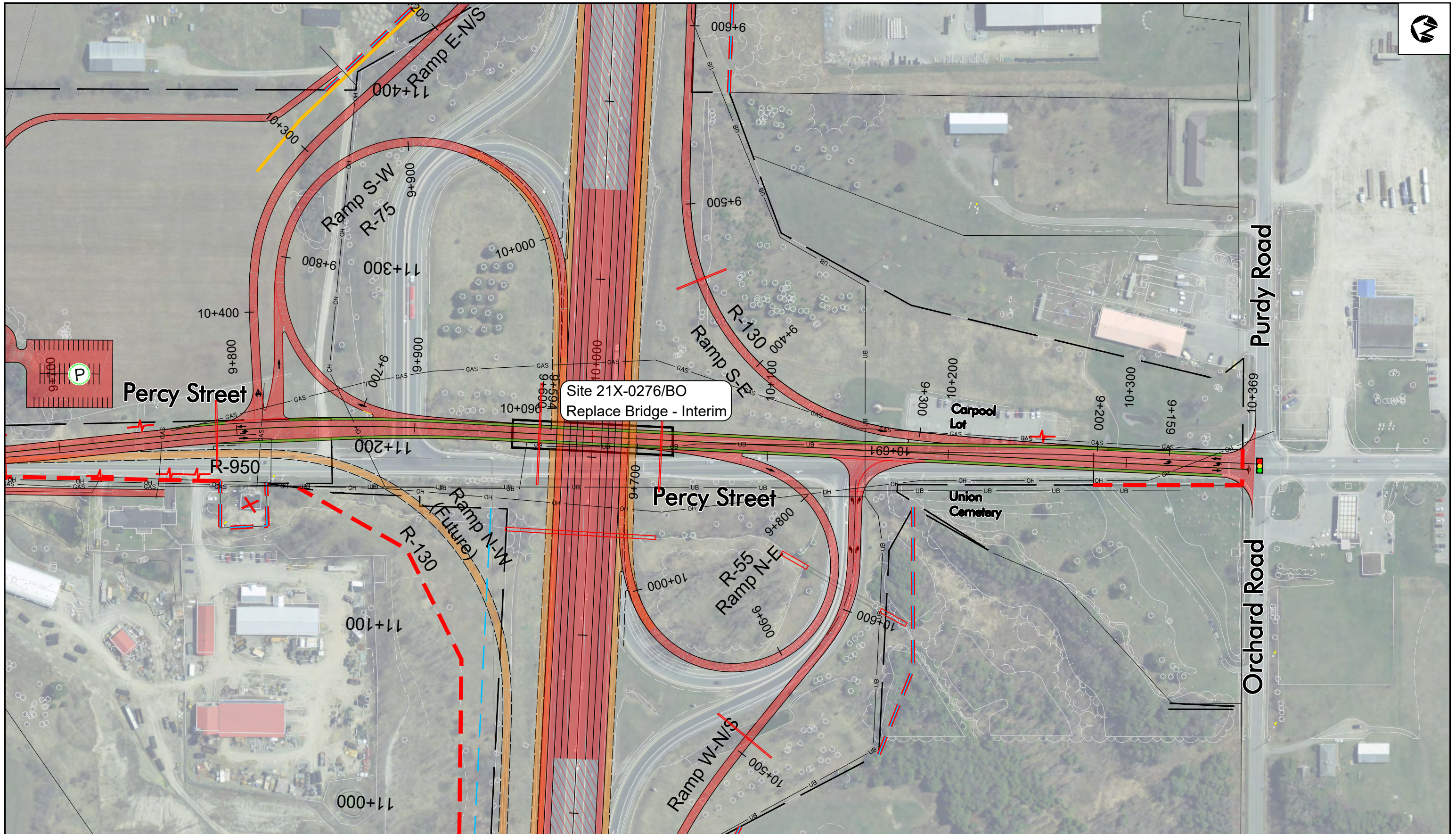
SHEET
69

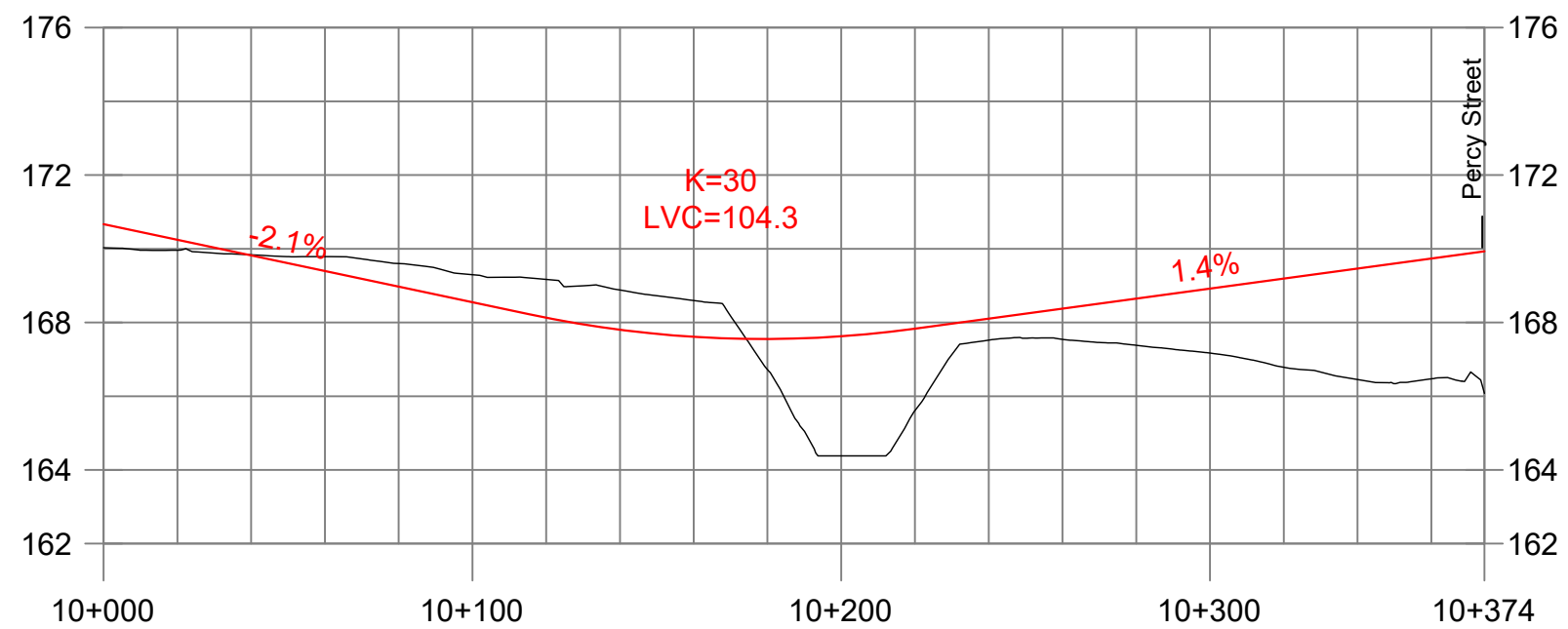
Recommended Profile
Percy Street (County Road 25)
Sta 9+700 to Sta 10+369
Cramahe Township

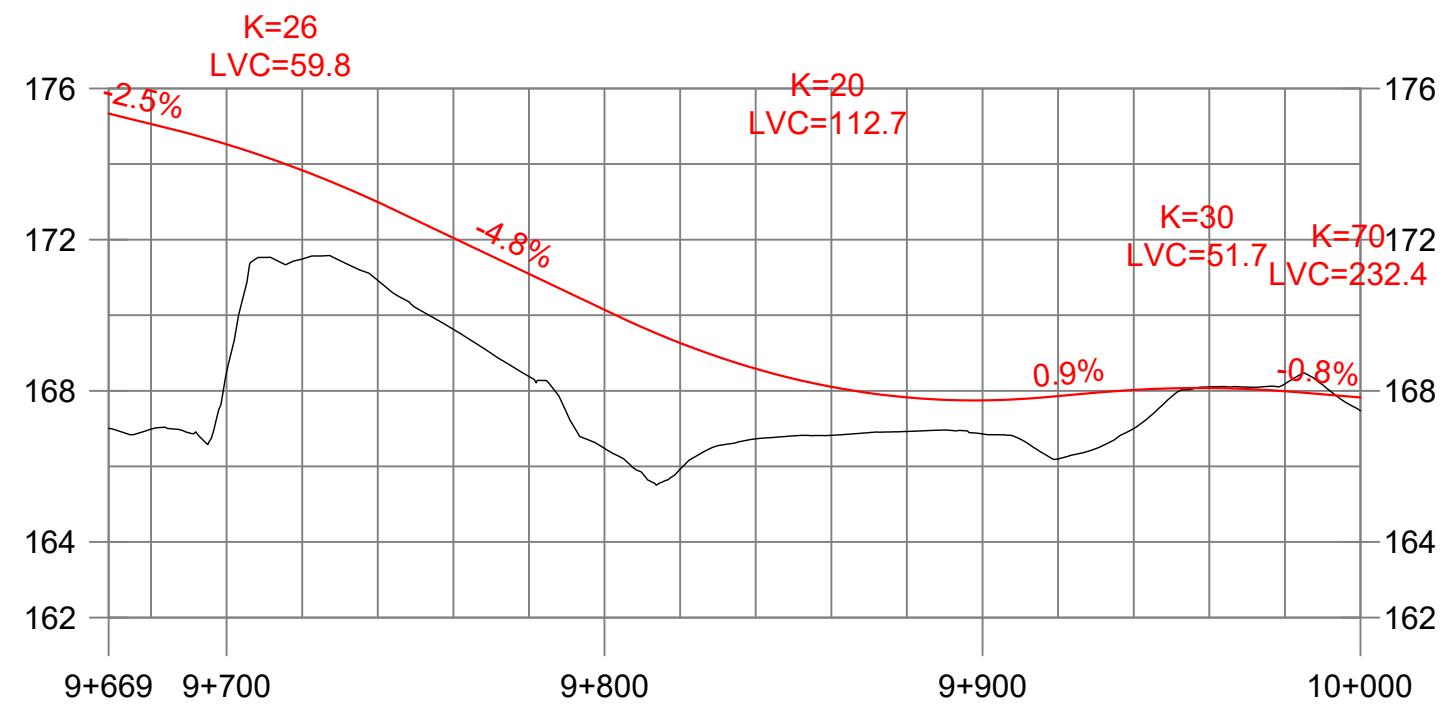
2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

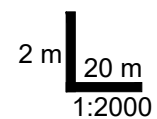






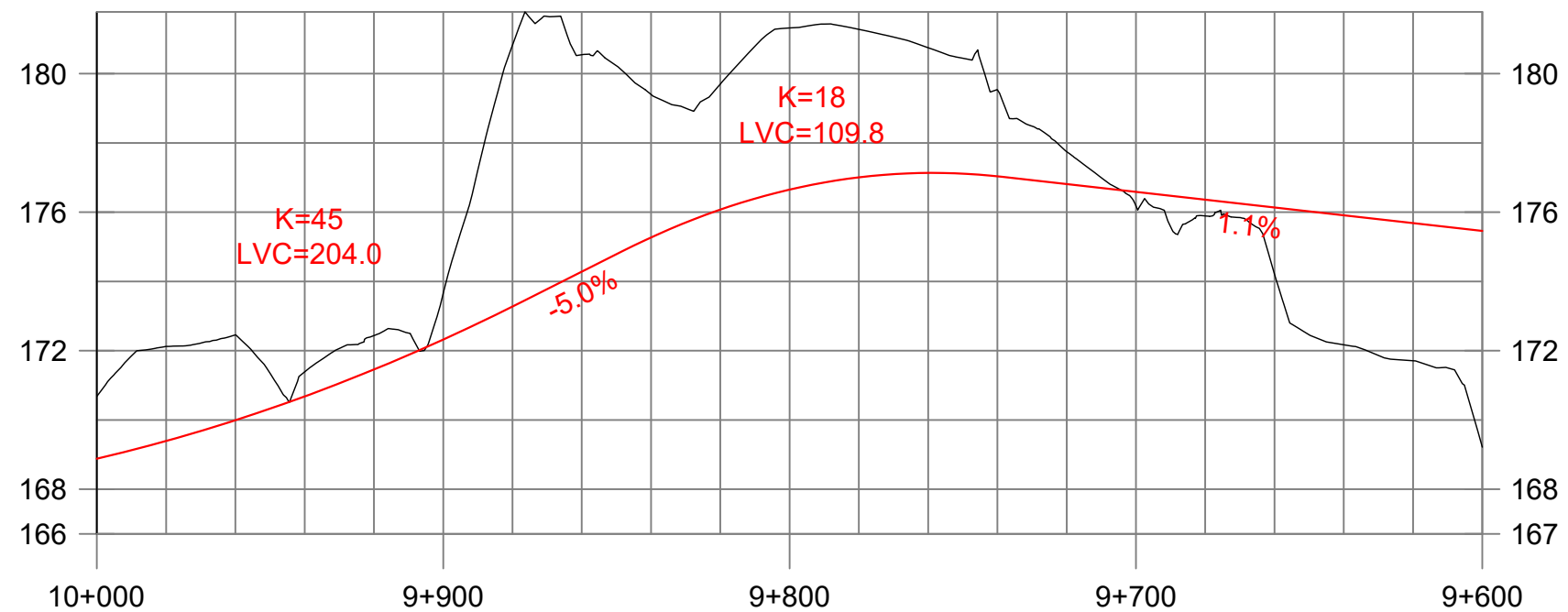


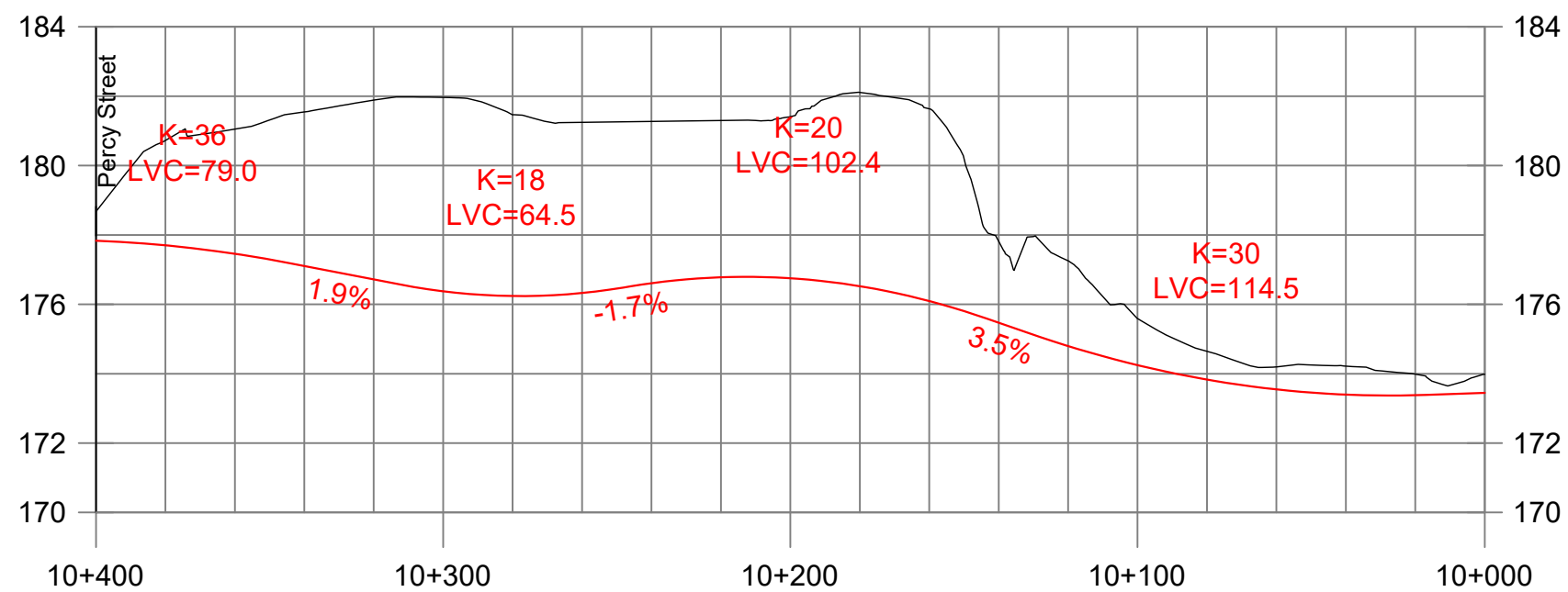
HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00

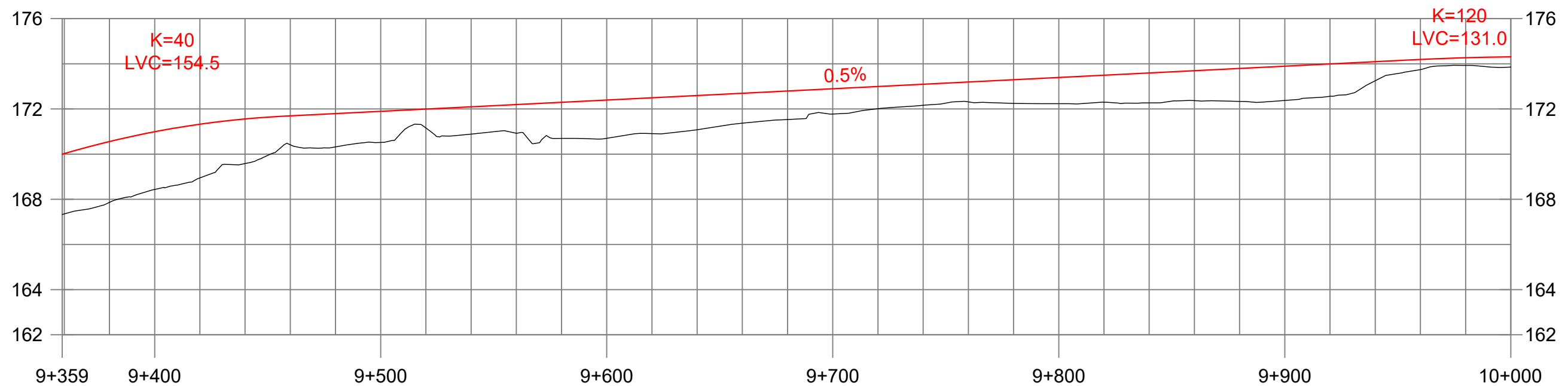


Recommended Profile
Ramp N-E (Percy Street Interchange)
Sta 9+669 to Sta 10+000
Haldimand Township

SHEET
72







SHEET
75

Recommended Profile

Ramps S-E (Percy Street Interchange)
Sta 9+359 to Sta 10+000
Cramahe Township

2 m
20 m
1:2000

HIGHWAY 401 Planning Study
from Cobourg to Colborne
Preliminary Design &
Class Environmental Assessment
GWP 4060-11-00



