

Appendix H: **Alternative Solution Conceptual Drawings**



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK (TO REMAIN UNALTERED)

MINET'S POINT PARK

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

THE BOULEVARD CULVERT CROSSING: 1800mm x 1070mm CSPA
CULVERT (CAPACITY = 3.4cms; < 1:2 YEAR PEAK FLOW)

WHITE OAKS RD.

THE BLVD.
CLIFF RD.

BRENNAN AVE. CULVERT CROSSING:
3650mm x 1500mm CONC. BOX CULVERT
(CAPACITY = 10.4cms; 1:2 YEAR PEAK
FLOW)



KEY PLAN

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- 250.00 - EX CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 1 – DO NOTHING ("EXISTING CONDITIONS")

DWG. No.

ALT-1

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE
IMPROVEMENTS: TO CONVEY
1:100-YEAR RETURN FREQUENCY
DESIGN STORM PEAK FLOW
(CAPACITY = 52.6cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK
@ 0.0% (INV. 218.00)

EXISTING WASHROOM/GENERATOR
BUILDING TO BE RELOCATED.

LISMER BLVD.
KEMPVIEW LN.
BRENNAN AVE.

BRENNAN AVE. CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT
WITH A 11000mm x 2000mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY THE 1:100-YEAR RETURN
FREQUENCY DESIGN STORM PEAK
FLOW (CAPACITY = 52.5cms)

REGRADE WHISKEY
CREEK @ 0.7%

THE BOULEVARD CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT
WITH A 11000mm x 2400mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY THE 1:100-YEAR RETURN
FREQUENCY DESIGN STORM PEAK
FLOW (CAPACITY = 52.3cms)

7 BRENNAN AVE.
EXISTING RESIDENTIAL DWELLING TO
BE REMOVED.

199 THE BOULEVARD

WHITE OAKS RD.
THE BLVD.
CLIFF RD.



KEY PLAN

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- 250.00 - EX CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 2 – CULVERT/WATERCOURSE IMPROVEMENTS
TO CONVEY 1:100-YEAR DESIGN STORM

DWG. No.

ALT-2

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE
IMPROVEMENTS: LOW FLOW CHANNEL WHERE
FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL
CHANNEL) USING NATURAL CHANNEL DESIGN
PRINCIPLES TO CONVEY BASEFLOW AND
FLOODPLAIN IMPROVEMENTS TO CONVEY
1:10-YEAR RETURN FREQUENCY DESIGN
STORM PEAK FLOW (27.4 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK
@ 0.4%

MINET'S POINT
PUMP STATION

10.0m

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

7 BRENNAN AVE

EXISTING RESIDENTIAL DWELLING
TO BE REMOVED

REGRADE WHISKEY CREEK
@ 0.4%

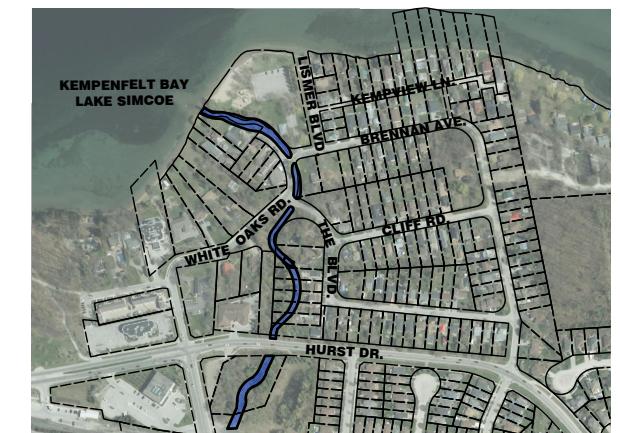
199 THE BOULEVARD

WHITE OAKS RD.

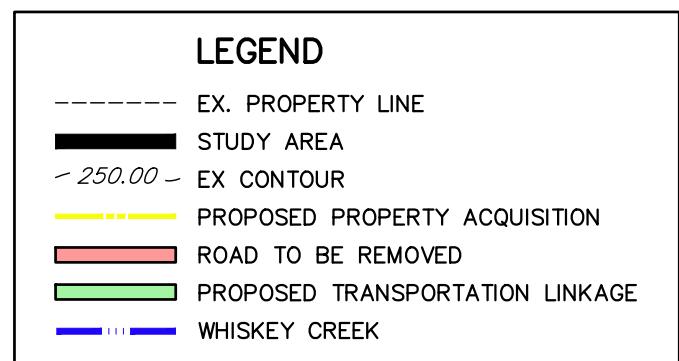
THE BLVD.
CLIFF RD.

BRENNAN AVE CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT WITH
9800 mm x 1650 mm CONC. SPAN
STRUCTURE DESIGNED TO CONVEY
1:10-YEAR RETURN FREQUENCY DESIGN
STORM PEAK FLOW (27.4 cms)

THE BOULEVARD CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT
WITH 7300 mm x 1950 mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY 1:10-YEAR RETURN
FREQUENCY DESIGN STORM PEAK FLOW
(27.3 cms)



KEY PLAN



PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 3 – CULVERT/WATERCOURSE IMPROVEMENTS
TO CONVEY LESS THAN 1:100-YEAR DESIGN STORM

DWG. No.

ALT-3A

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE
IMPROVEMENTS: LOW FLOW CHANNEL WHERE
FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL
CHANNEL) USING NATURAL CHANNEL DESIGN
PRINCIPLES TO CONVEY BASEFLOW AND
FLOODPLAIN IMPROVEMENTS TO CONVEY
1:50-YEAR RETURN FREQUENCY DESIGN
STORM PEAK FLOW (42.3 cms)

BRENNAN AVE CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT WITH
13400 mm x 1650 mm CONC. SPAN
STRUCTURE DESIGNED TO CONVEY
1:50-YEAR RETURN FREQUENCY DESIGN
STORM PEAK FLOW (42.1 cms)

THE BOULEVARD CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT WITH
11000 mm x 1950 mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY 1:50-YEAR RETURN
FREQUENCY DESIGN STORM PEAK FLOW
(42.0 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK
@ 0.4%

MINET'S POINT
PUMP STATION

10.0m

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

7 BRENNAN AVE

EXISTING RESIDENTIAL DWELLING
TO BE REMOVED

REGRADE WHISKEY CREEK
@ 0.4%

199 THE BOULEVARD

WHITE OAKS RD.

THE BLVD.



PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)

WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 3 – CULVERT/WATERCOURSE IMPROVEMENTS
TO CONVEY LESS THAN 1:100-YEAR DESIGN STORM

DWG. No.

ALT-3B

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEY PLAN



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE IMPROVEMENTS: LOW FLOW CHANNEL WHERE FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL CHANNEL) USING NATURAL CHANNEL DESIGN TO CONVEY BASEFLOW AND FLOODPLAIN IMPROVEMENTS TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK @ 0.4%

10.0m

WHISKEY CREEK

MINET'S POINT PUMP STATION

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

REMOVE SECTION OF BRENNAN AVE.
DAYLIGHTING WATERCOURSE

25m PEDESTRIAN BRIDGE

7 BRENNAN AVE

REGRADE WHISKEY CREEK @ 0.4%

199 THE BOULEVARD

THE BOULEVARD CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT
WITH 7300 mm x 1950 mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY 1:10-YEAR RETURN
FREQUENCY DESIGN STORM PEAK FLOW
(27.3cms)

WHITE OAKS RD.

THE BLVD.
CLIFF RD.



KEY PLAN

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- 250.00 - EX CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK
DRAINAGE IMPROVEMENTS
ALTERNATIVE 4A – REMOVE BRENNAN AVENUE AT
WHISKEY CREEK

DWG. No.

ALT-4A

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE IMPROVEMENTS: LOW FLOW CHANNEL WHERE FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL CHANNEL) USING NATURAL CHANNEL DESIGN TO CONVEY BASEFLOW AND FLOODPLAIN IMPROVEMENTS TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK @ 0.4%

10.0m

MINET'S POINT PUMP STATION

WHISKEY CREEK

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

REMOVE SECTION OF BRENNAN AVE.
DAYLIGHTING WATERCOURSE

25m PEDESTRIAN BRIDGE

7 BRENNAN AVE

REGRADE WHISKEY CREEK @ 0.4%

199 THE BOULEVARD

THE BOULEVARD CULVERT CROSSING:
REMOVE AND REPLACE EX. CULVERT
WITH 7300 mm x 1950 mm CONC.
SPAN STRUCTURE DESIGNED TO
CONVEY 1:10-YEAR RETURN
FREQUENCY DESIGN STORM PEAK FLOW
(27.3cms)

WHITE OAKS RD.

THE BLVD.

CLIFF RD.



KEY PLAN

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- 250.00 - EX. CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 4B – REMOVE BRENNAN AVE. AT WHISKEY CREEK AND CONNECT BRENNAN AVE. AND THE BOULEVARD

DWG. No.

ALT-4B

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE IMPROVEMENTS: LOW FLOW CHANNEL WHERE FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL CHANNEL) USING NATURAL CHANNEL DESIGN TO CONVEY BASEFLOW AND FLOODPLAIN IMPROVEMENTS TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK @ 0.4%

10.0m

MINET'S POINT PUMP STATION

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

7 BRENNAN AVE

BRENNAN AVE CULVERT CROSSING: REMOVE AND REPLACE EX. CULVERT WITH 9800 mm x 1650 mm CONC. SPAN STRUCTURE DESIGNED TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4cms)

15m PEDESTRIAN BRIDGE

EXISTING RESIDENTIAL DWELLING TO BE REMOVED

REMOVE SECTION OF THE BOULEVARD DAYLIGHTING WATERCOURSE

REGRADE WHISKEY CREEK @ 0.4%

WHITE OAKS RD.

CLIFF RD.

199 THE BOULEVARD

VEHICLE TURN AROUND



KEY PLAN

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- 250.00 - EX CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 5A – REMOVE THE BOULEVARD AT WHISKEY CREEK

DWG. No.

ALT-5A

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE

WHISKEY CREEK WATERCOURSE IMPROVEMENTS: LOW FLOW CHANNEL WHERE FEASIBLE (6m WIDE x 0.4m DEEP BANKFULL CHANNEL) USING NATURAL CHANNEL DESIGN TO CONVEY BASEFLOW AND FLOODPLAIN IMPROVEMENTS TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4 cms)

MINET'S POINT PARK

REGRADE WHISKEY CREEK @ 0.4%

10.0m

WHISKEY CREEK

MINET'S POINT PUMP STATION

LISMER BLVD.

KEMPVIEW LN.

BRENNAN AVE.

7 BRENNAN AVE

BRENNAN AVE CULVERT CROSSING: REMOVE AND REPLACE EX. CULVERT WITH 9800 mm x 1650 mm CONC. SPAN STRUCTURE DESIGNED TO CONVEY 1:10-YEAR RETURN FREQUENCY DESIGN STORM PEAK FLOW (27.4cms)

REGRADE WHISKEY CREEK @ 0.4%

15m PEDESTRIAN BRIDGE

EXISTING RESIDENTIAL DWELLING TO BE REMOVED

REMOVE SECTION OF THE BOULEVARD DAYLIGHTING WATERCOURSE

WHITE OAKS RD.

THE BLVD.

LEGEND

- EX. PROPERTY LINE
- STUDY AREA
- EX CONTOUR
- PROPOSED PROPERTY ACQUISITION
- ROAD TO BE REMOVED
- PROPOSED TRANSPORTATION LINKAGE
- WHISKEY CREEK

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)



WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 5B – REMOVE THE BOULEVARD AT WHISKEY CREEK AND CONNECT BRENNAN AVE. AND THE BOULEVARD

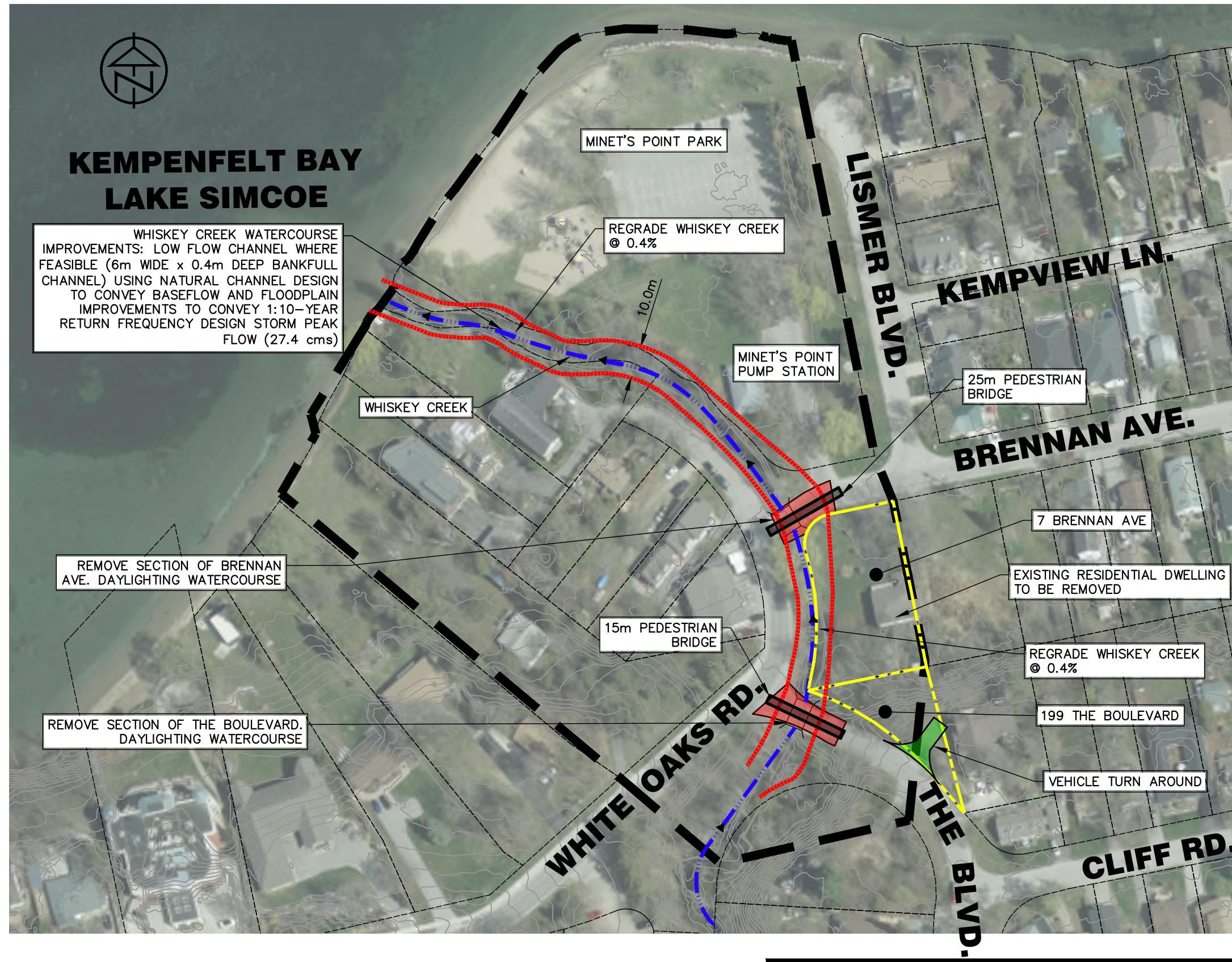
DWG. No.

ALT-5B

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



KEY PLAN



PROPERTY ACQUISITION:

A) 7 BRENNAN AVE.
B) 199 THE BOULEVARD (PORTION OF)



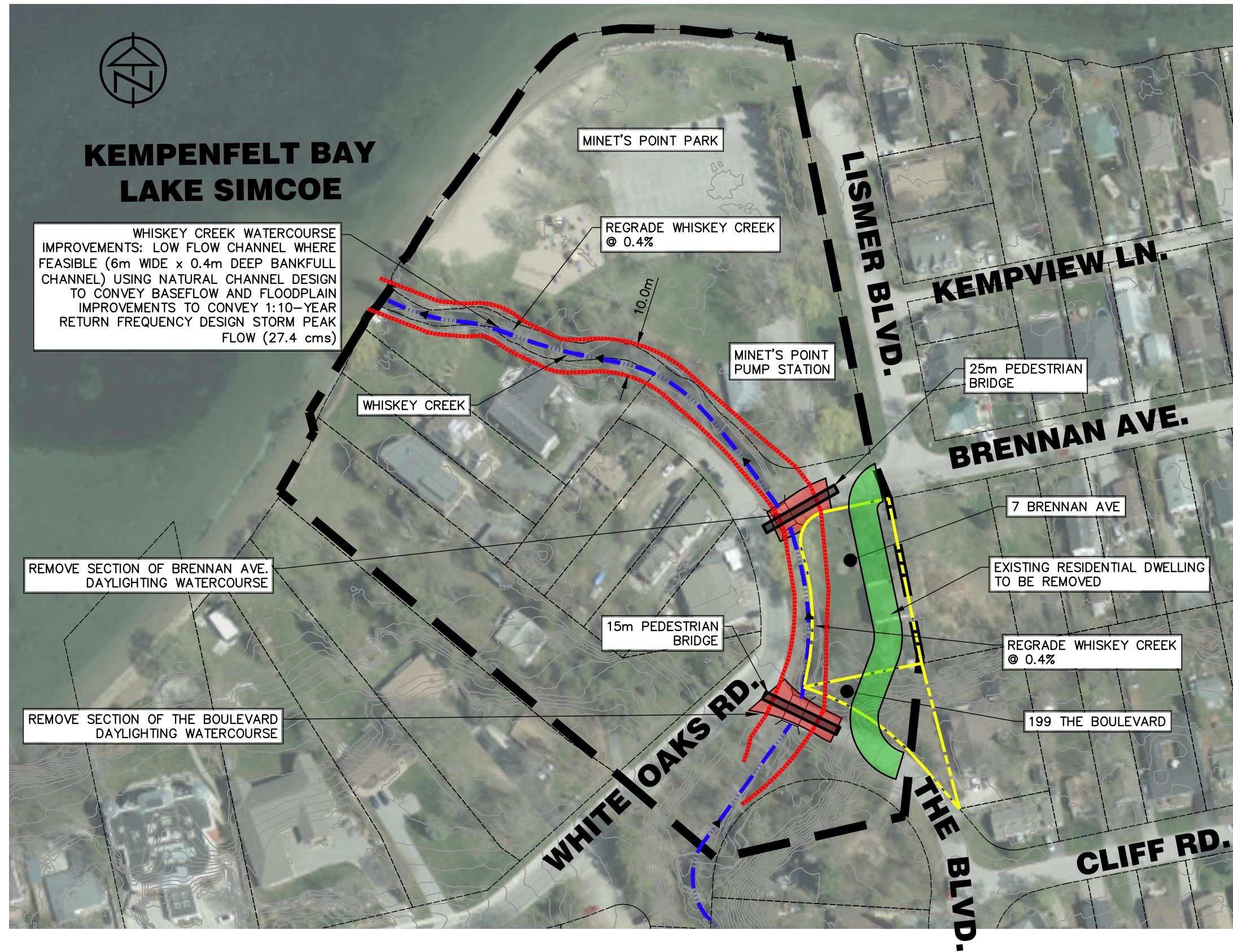
WHISKEY CREEK DRAINAGE IMPROVEMENTS

ALTERNATIVE 6A – REMOVE BRENNAN AVE. AND THE BOULEVARD AT WHISKEY CREEK

DWG. No.

ALT-6A

SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114



PROPERTY ACQUISITION:

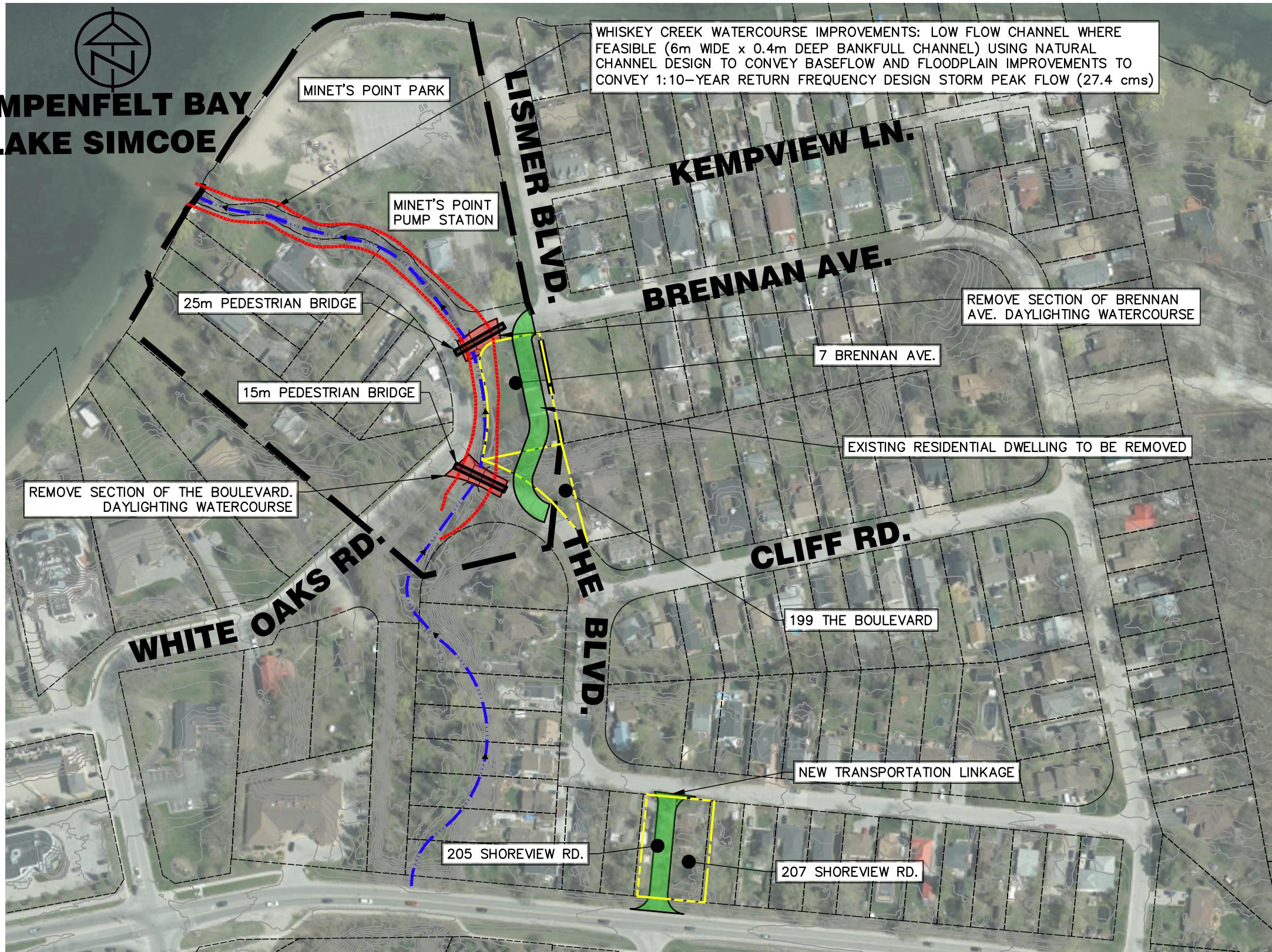
A) 7 BRENNAN AVE.
B) 199 THE BOULEVARD (PORTION OF)



**WHISKEY CREEK
DRAINAGE IMPROVEMENTS**
ALTERNATIVE 6B – REMOVE BRENNAN AVE. AND THE BOULEVARD AT WHISKEY CREEK AND CONNECT BRENNAN AVE. AND THE BOULEVARD

DWG. No. **ALT-6B**
DWG. No. **120114**
SCALE: 1:1500 DRAWN: JGH DATE: SEPT./20 JOB NO. 120114

KEMPFENFELT BAY LAKE SIMCOE



KEY PLAN

PROPERTY ACQUISITION:

- A) 7 BRENNAN AVE.
- B) 199 THE BOULEVARD (PORTION OF)
- C) 207 SHOREVIEW RD.
- D) 205 SHOREVIEW RD.

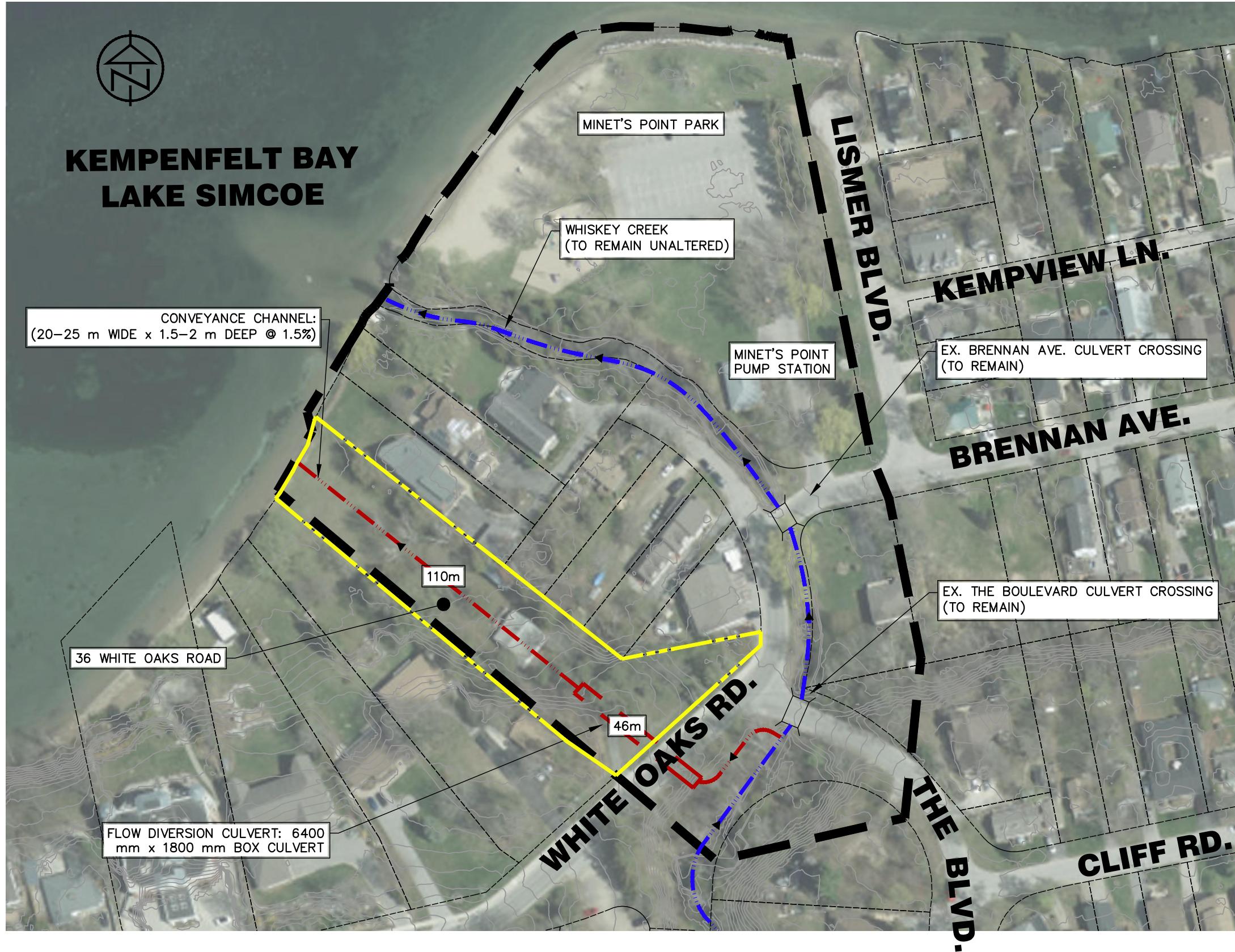


**WHISKEY CREEK
DRAINAGE IMPROVEMENTS**
ALTERNATIVE 6C – REMOVE BRENNAN AVE. AND THE
BOULEVARD AT WHISKEY CREEK AND CONNECT BRENNAN
AVE. AND THE BOULEVARD AND NEW CONNECTION TO

DWG. No. **ALT-6C**
SCALE: 1:2000 DRAWN: JGH DATE: SEPT./20
JOB NO. 120114



KEMPFENFELT BAY LAKE SIMCOE



KEY PLAN

LEGEND	
-----	EX. PROPERTY LINE
—	STUDY AREA
- 250.00 -	EX CONTOUR
—	PROPOSED PROPERTY ACQUISITION
—	ROAD TO BE REMOVED
—	PROPOSED TRANSPORTATION LINKAGE
—	WHISKEY CREEK

PROPERTY ACQUISITION:
A) 36 WHITE OAKS ROAD



**WHISKEY CREEK
DRAINAGE IMPROVEMENTS**
ALTERNATIVE 7 – ADDITIONAL CONVEYANCE ROUTE (FLOW
DIVERSION) THROUGH 26 WHITE OAKS ROAD

DWG. No.
ALT-7