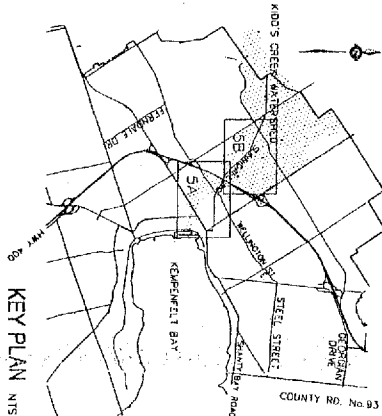
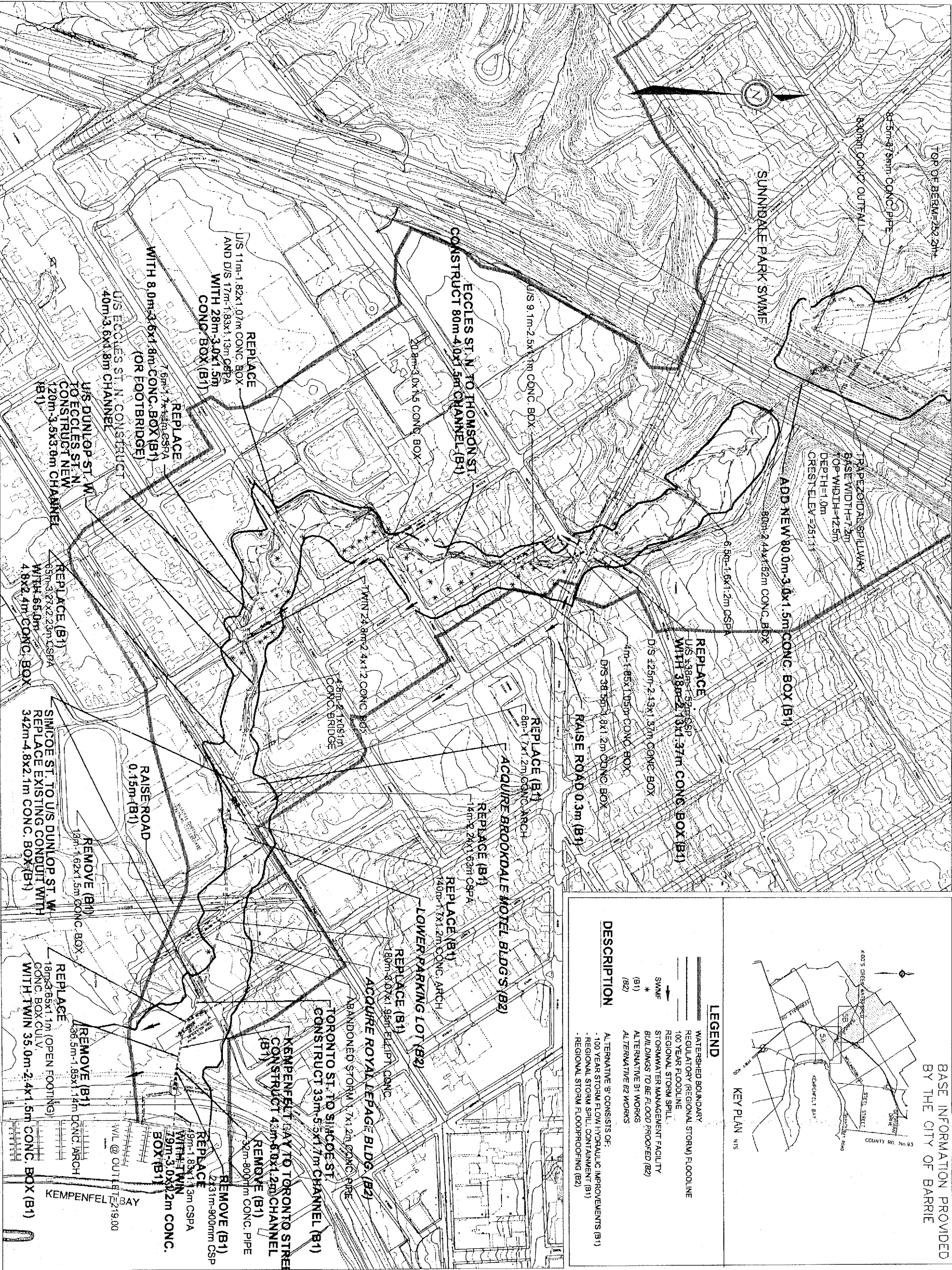


Appendix C: Background Recommendations



BASE INFORMATION PROVIDED
BY THE CITY OF BARRIE

LEGEND

- WATERSHED BOUNDARY
- REGULATORY (REGIONAL STORM) FLOODLINE
- 100 YEAR FLOODLINE
- REGIONAL STORM SPILL
- STORMWATER MANAGEMENT FACILITY
- BUILDINGS TO BE FLOOD PROOFED (B2)
- ALTERNATIVE B1 WORKS
- ALTERNATIVE B2 WORKS

DESCRIPTION

ALTERNATIVE B2 CONSISTS OF:

- 100 YEAR STORM FLOW HYDRAULIC IMPROVEMENTS (B1)
- REGIONAL STORM SPILL CONTAINMENT (B1)
- REGIONAL STORM FLOODPROOFING (B2)



OLIVER, MANGIONE, McCALLA & ASSOCIATES
a division of Trow Consulting Engineers Ltd.
561 BRYNE DRIVE UNIT D
BARRIE, ONTARIO L4N 9Y3

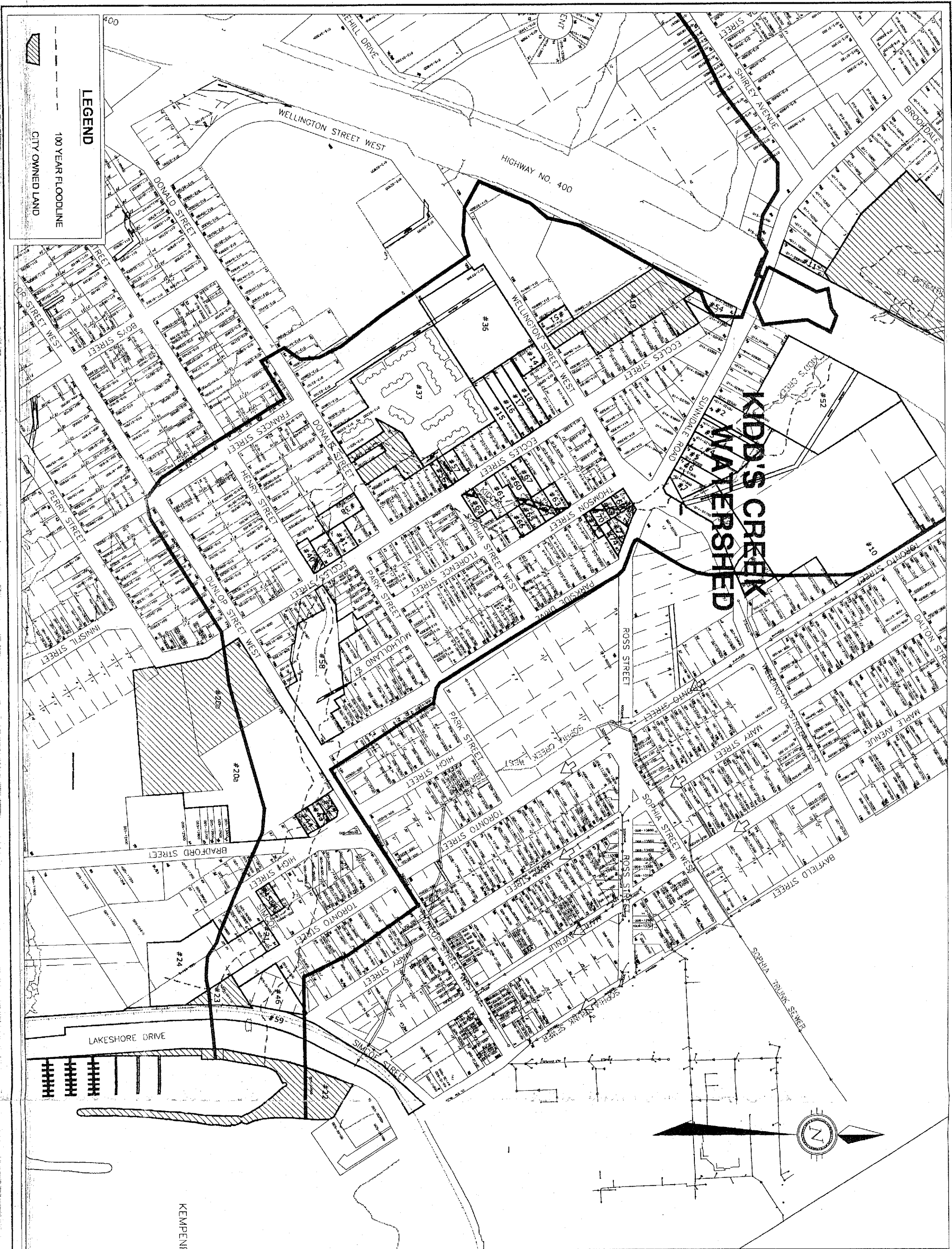


CITY OF BARRIE

KIDD'S CREEK FLOOD CONTROL ALTERNATIVE 'B'
(100 YR. HYDRAULIC IMPROVEMENTS / REGIONAL STORM SPILL CONTAINMENT AND FLOODPROOFING)

| | |
|--------|-----------|
| SCALE: | 1:5,000 |
| DATE: | OCT. 2001 |
| DRAWN: | LLC |
| JOB: | MZ13631A |

FIG 5A



OLIVER, MANGIONE, McCALLA & ASSOCIATES
 a division of Trow Consulting Engineers Ltd.
 561 BRYNE DRIVE UNIT D
 BARRIE, ONTARIO L4N 9Y3

CLIENT:

CITY OF BARRIE



TITLE:

KIDD'S CREEK LAND OWNERSHIP
KEMPENFELT BAY TO HIGHWAY 400

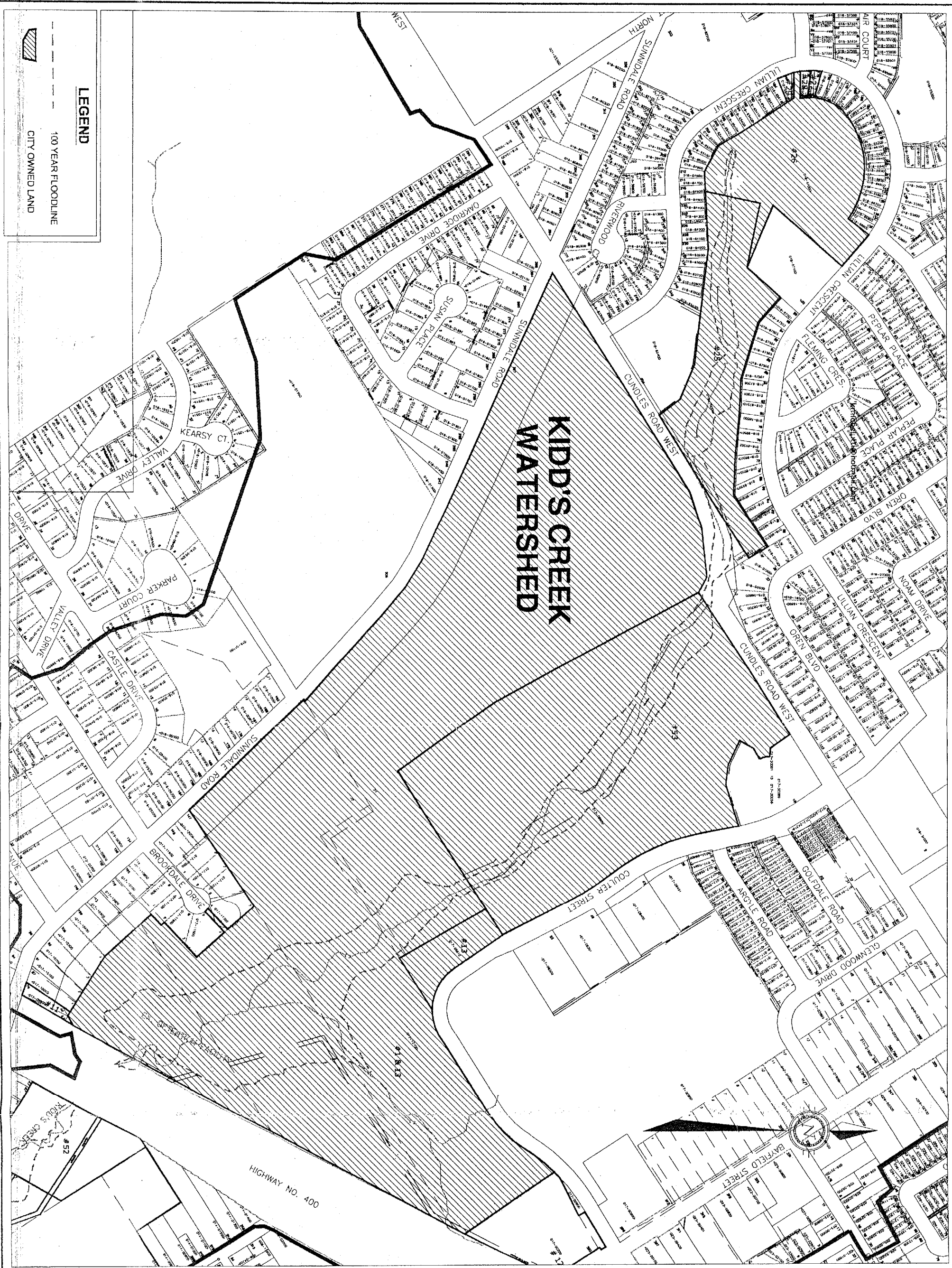
SCALE: 1:5,000

DATE: AUGUST 2001

DRAWN: LLC

JOB: MZ13631A

FIG LO-1



LEGEND

100 YEAR FLOODLINE

CITY OWNED LAND



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561 BRYNE DRIVE UNIT D
BARRIE, ONTARIO L4N 9Y3

CLIENT:

CITY OF BARRIE

TITLE:

KIDD'S CREEK LAND OWNERSHIP
HIGHWAY 400 TO LILLIAN CRESCENT



SCALE: 1:5,000

DATE: AUGUST 2001

DRAWN: LLC

JOB: MZ13631A

FIG L0-2

C:\e\alfiles\w99156\hec2-c5-prop-purchases_june.dwg

Giffels

Giffels Associates Limited
Consulting Engineers and Architects

SCALE

25m 0 50m

PROJECT TITLE

**BUNKERS CREEK
MASTER DRAINAGE PLAN-UPDATE**

DRAWING TITLE

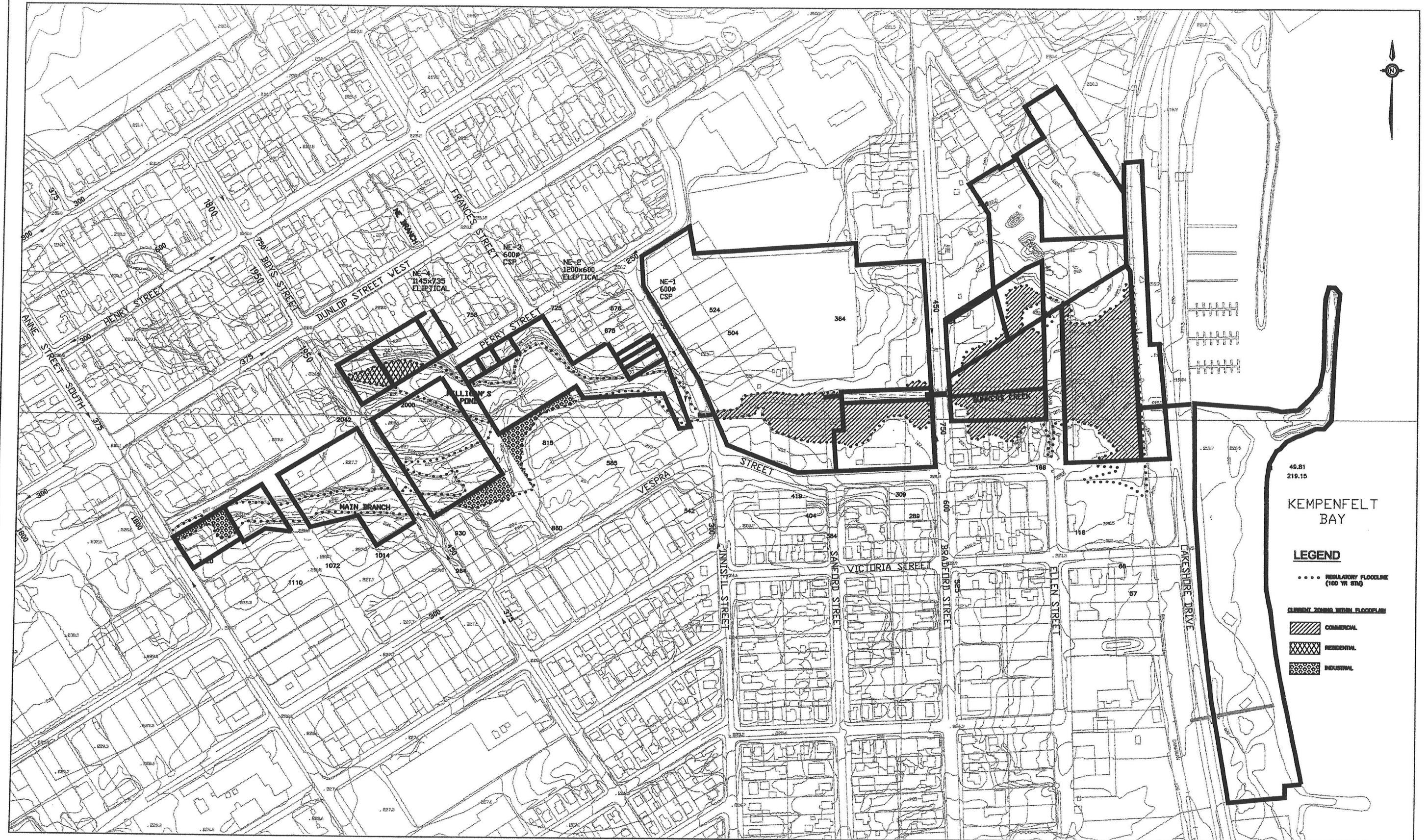
**LAND ACQUISITION
IN REGULATORY FLOODPLAIN
FULL 100 YEAR INFRASTRUCTURE UPGRADES
AND IMPLEMENTATION OF STORMWATER DETENTION POND**

PROJECT No.









W99156

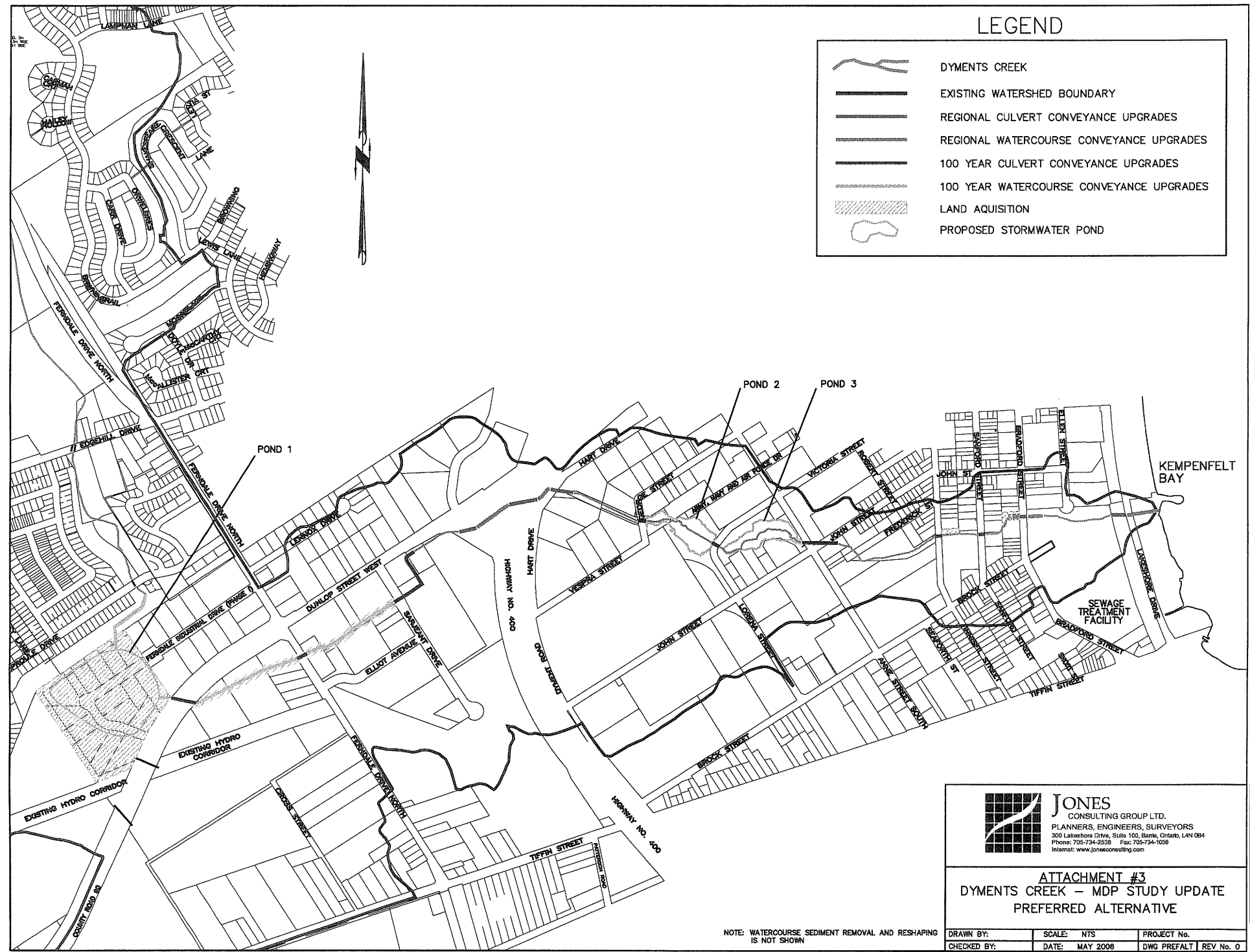
FIGURE

FIG 5




LEGEND

-  DYMENTS CREEK
-  EXISTING WATERSHED BOUNDARY
-  REGIONAL CULVERT CONVEYANCE UPGRADES
-  REGIONAL WATERCOURSE CONVEYANCE UPGRADES
-  100 YEAR CULVERT CONVEYANCE UPGRADES
-  100 YEAR WATERCOURSE CONVEYANCE UPGRADES
-  LAND ACQUISITION
-  PROPOSED STORMWATER POND



NOTE: WATERCOURSE SEDIMENT REMOVAL AND RESHAPING IS NOT SHOWN

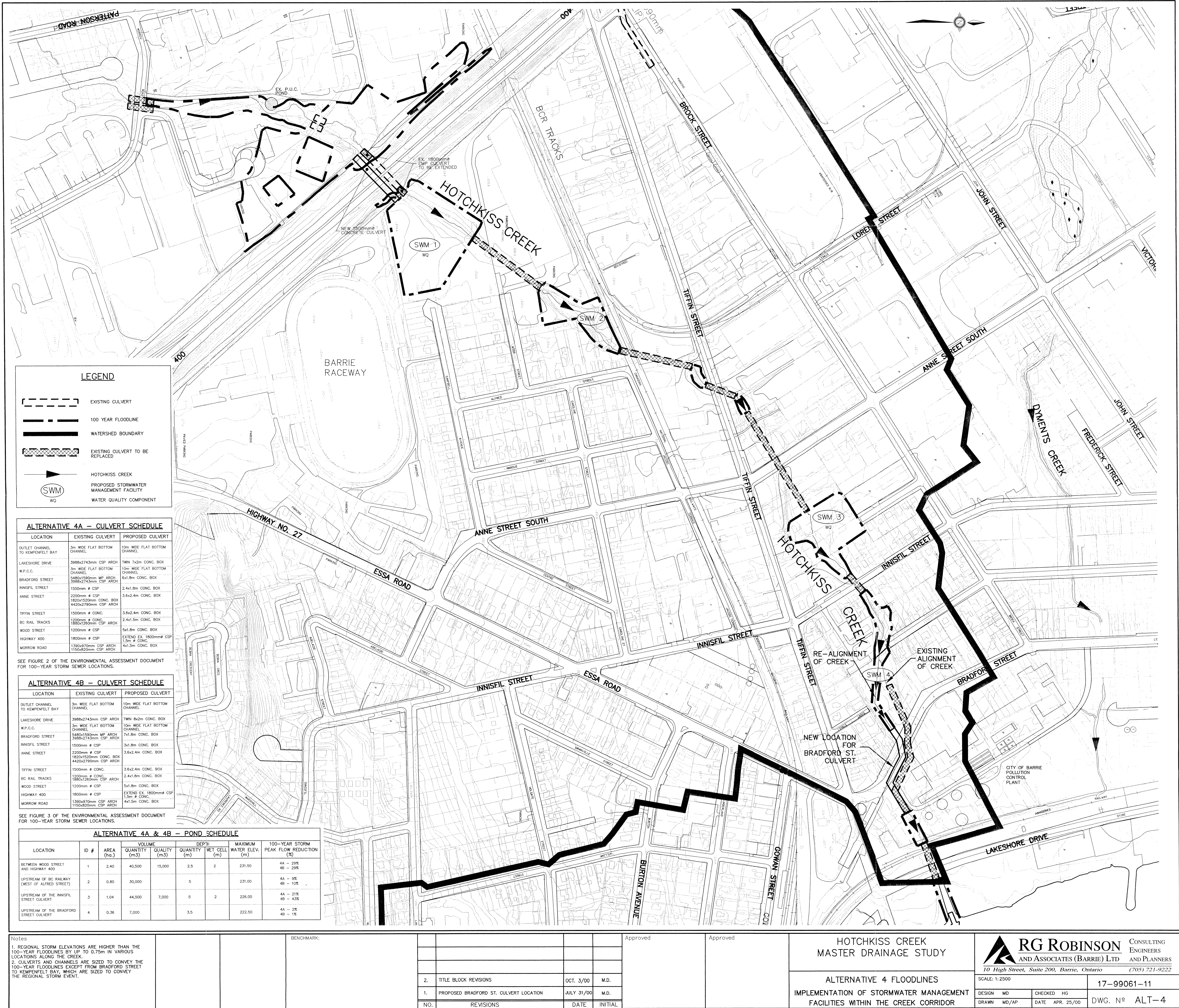


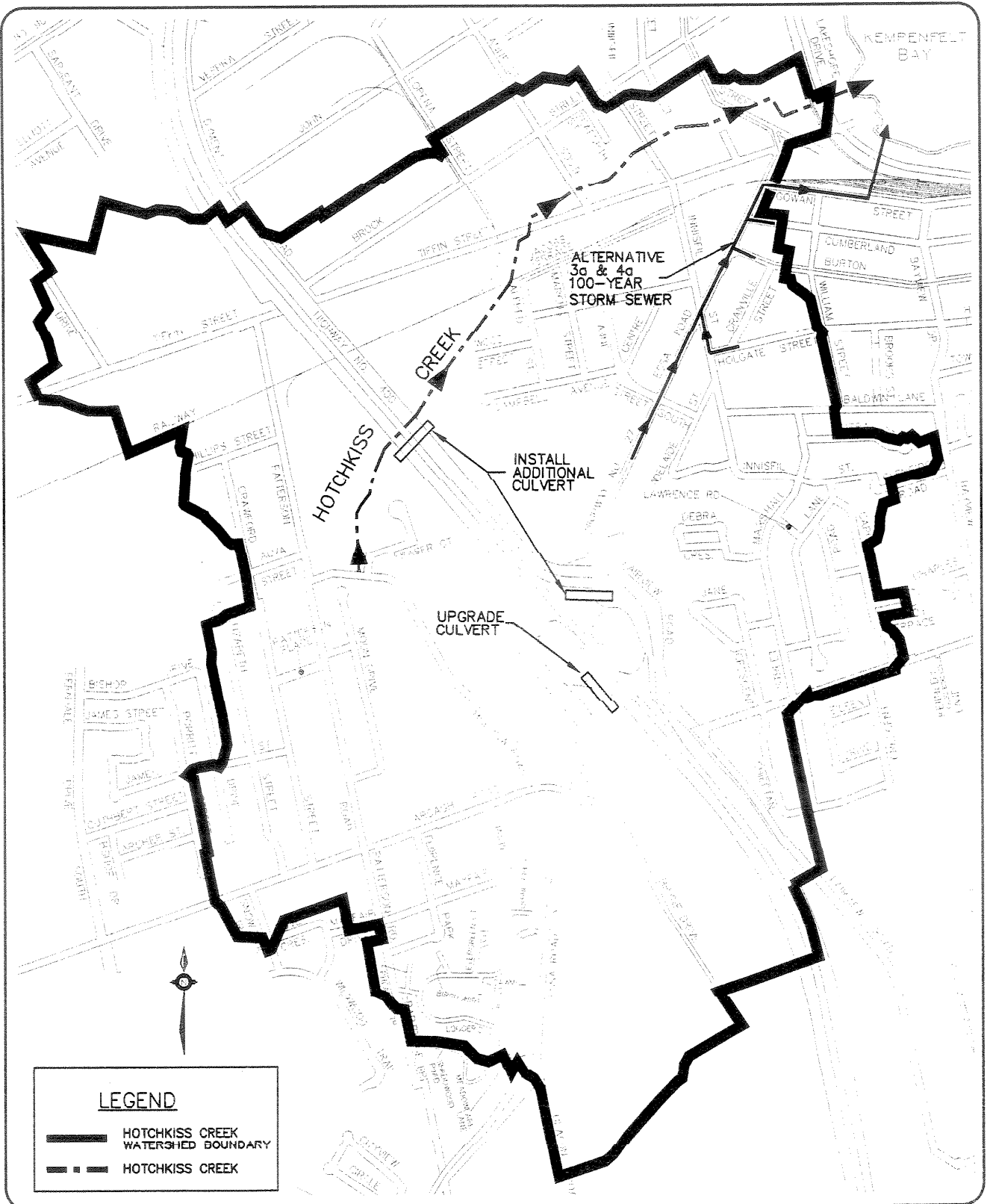
JONES
CONSULTING GROUP LTD.
PLANNERS, ENGINEERS, SURVEYORS
300 Lakeshore Drive, Suite 1100, Barrie, Ontario, L4N 0B4
Phone: 705-734-2539 Fax: 705-734-1069
Internet: www.jonesconsulting.com

ATTACHMENT #3
DYMENTS CREEK – MDP STUDY UPDATE
PREFERRED ALTERNATIVE

| | | |
|-------------|----------------|-------------------------|
| DRAWN BY: | SCALE: NTS | PROJECT No. |
| CHECKED BY: | DATE: MAY 2008 | DWG PREFALT REV No. 0 |

Attachment #3





RG ROBINSON
AND ASSOCIATES (BARRIE) LTD

10 High Street, Suite 200, Barrie, Ontario

CONSULTING
ENGINEERS
AND PLANNERS

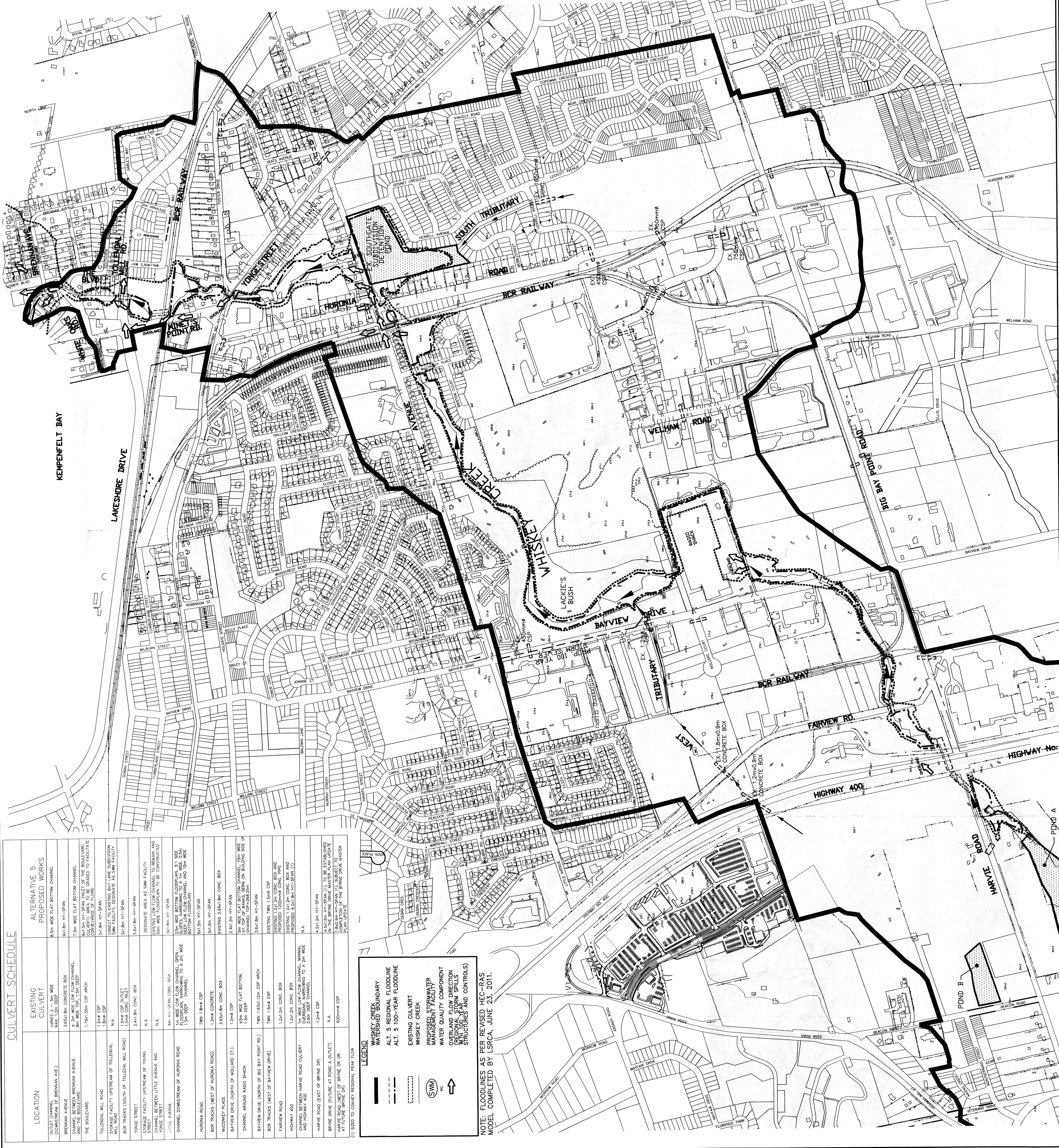
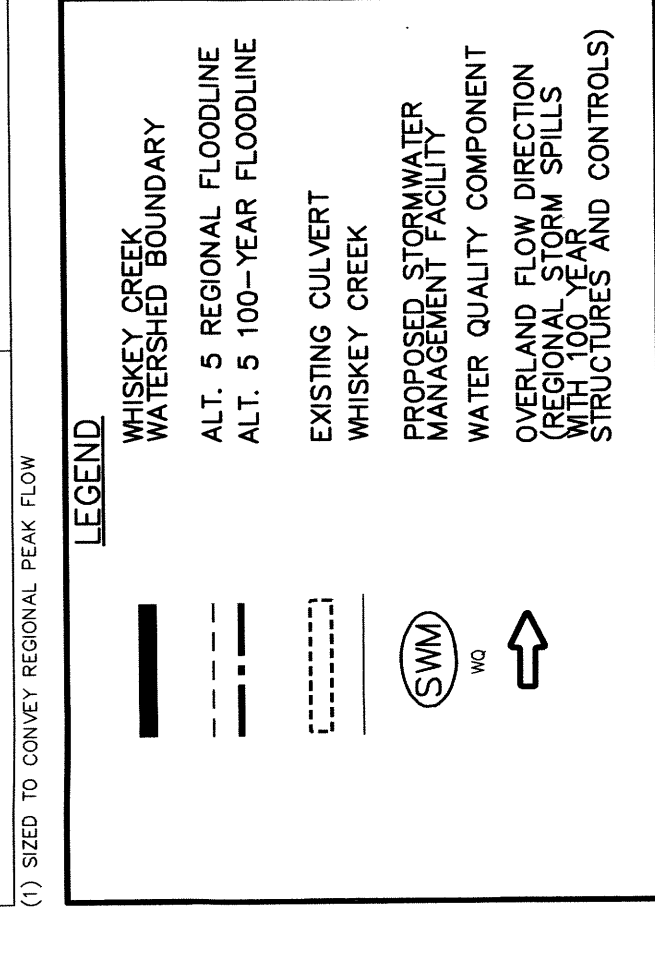
(705) 721-9222

HOTCHKISS CREEK ENVIRONMENTAL ASSESSMENT DOCUMENT

FIGURE 2

ALTERNATIVE 3a AND 4a
100-YEAR STORM SEWERS

| LOCATION | EXISTING CULVERT | ALTERNATIVE 5 PROPOSED WORKS |
|--|--|--|
| OUTLET CHANNEL (DOWNSTREAM OF BRENNAN AVE.) | W/RES 2 - 5m WIDE | 8.5m WIDE FLAT BOTTOM CHANNEL |
| BRENNAN AVENUE | 3.65x1.8m CONC. BOX | 8x1.8m HY-SPAN |
| CHANNEL BETWEEN BRENNAN AVENUE AND THE BOULEVARD | 8.2m WIDE, 0.7m DEEP CHANNEL | 7.9m WIDE FLAT BOTTOM CHANNEL |
| THE BOULEVARD | 1.79x1.35m CONC. ARCH | 8x1.5m HY-SPAN (INLET OF THE BOULEVARD CONVEYANCE OF FLOOD) |
| TOLLEDALE MILL ROAD | 1.2m CSP | 3x1.8m HY-SPAN |
| ESPAÑE FACILITY (UPSTREAM OF TOLLEDALE MILL ROAD) | N.A. | CONNECT TO EXISTING BAY LANE SUBDIVISION SWM FACILITY, DESIGNATE AS SWM FACILITY |
| BUR TRAILS (SOUTH OF TOLLEDALE MILL ROAD) | 1.5m CSP OUTLET | 3x1.8m HY-SPAN |
| YONGE STREET | 2.4x1.8m CONC. BOX | 3.65x1.8m HY-SPAN |
| ESPAÑE FACILITY (UPSTREAM OF YONGE STREET) | N.A. | DESIGNATE AREA AS SWM FACILITY |
| CHANNEL BETWEEN LITTLE AVENUE AND YONGE STREET | N.A. | EXISTING 1.5m WIDE CHANNEL (TO BE CONSTRUCTED) |
| LITTLE AVENUE | 6m HY-SPAN CONC. BOX | 6x1.8m HY-SPAN |
| CHANNEL DOWNSTREAM OF HURONIA ROAD | 1.5m CSP | SCIPES, NARROWING TO 1.1m WIDE, 0.25m DEEP CHANNEL AND 1.5m WIDE BOTTOM FLOODPLAIN |
| HURONIA ROAD | TWIN 1.8m CSP | 8x1.5m HY-SPAN |
| BUR TRAILS (WEST OF HURONIA ROAD) | 1.2m CONC. | EXISTING 3.65x1.8m CONC. BOX |
| MCOWEY PLACE | 3.65x1.8m CONC. BOX | 2.4x1.2m HY-SPAN |
| BAYVIEW DRIVE (NORTH OF WOLLARD CT.) | 1.5m CSP | 5m WIDE FLAT BOTTOM CHANNEL, 15m WIDE AT TOP OF BANKS, SLOPE ON BUILDING SIDE OF CHANNEL |
| CHANNEL AROUND RADIO SHACK | 1.5m CSP | 3.65x1.8m HY-SPAN |
| BAYVIEW DRIVE (NORTH OF BIG BAY POINT RD.) | TWIN 1.5x1.2m CSP ARCH | EXISTING TWIN 1.5m CSP |
| BUR TRAILS (WEST OF BAYVIEW DRIVE) | 1.5m CSP | EXISTING 1.5x1.2m CONC. BOX |
| FAIRVIEW ROAD | 1.5x1.2m CONC. BOX | EXISTING 1.5x1.2m CONC. BOX AND PROPOSED 6.0x1.8m HY-SPAN (1) |
| HIGHWAY 400 | 1.5x1.2m CONC. BOX | N.A. |
| CHANNEL BETWEEN HARVE ROAD CULVERT AND HURONIA AVE | 1m WIDE LOW FLOW OF 100 L/S, 0.25m WIDE CHANNEL, 1.5m WIDE AT FUTURE BRINE DR. | 4.5x1.2m HY-SPAN |
| HARVE ROAD (EAST OF BRINE DR.) | 1.2m CSP | 1.8x0.9m HY-SPAN (1), TO BE ESTABLISHED AT TOP OF BANKS, SLOPE ON BUILDING SIDE OF CHANNEL |
| BRINE DRIVE (FUTURE AT POND A OUTLET) | N.A. | 1.8x0.9m HY-SPAN (1), SUBJECT TO FUTURE UPDATE |
| HARVE DRIVE (FUTURE AT BRINE DR. OR AT FUTURE BRINE DR.) | 600mm CSP | 1.8x0.9m HY-SPAN (1), SUBJECT TO FUTURE UPDATE |



NOTES
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| NO. | REVISIONS | DATE | INITIAL |
|-----|---|----------|---------|
| 3 | REVISE FLOODLINES AS PER LSRC MODEL | AUG 2011 | C.H. |
| 2 | UPDATE FLOOD ELEVATIONS JUST | APR 2011 | Y.S. |
| 1 | REVISE CULVERTS AT BRINE DRIVE & THE BOULEVARD, REMOVE FUTURE CULVERT | OCT 1/09 | Y.S. |

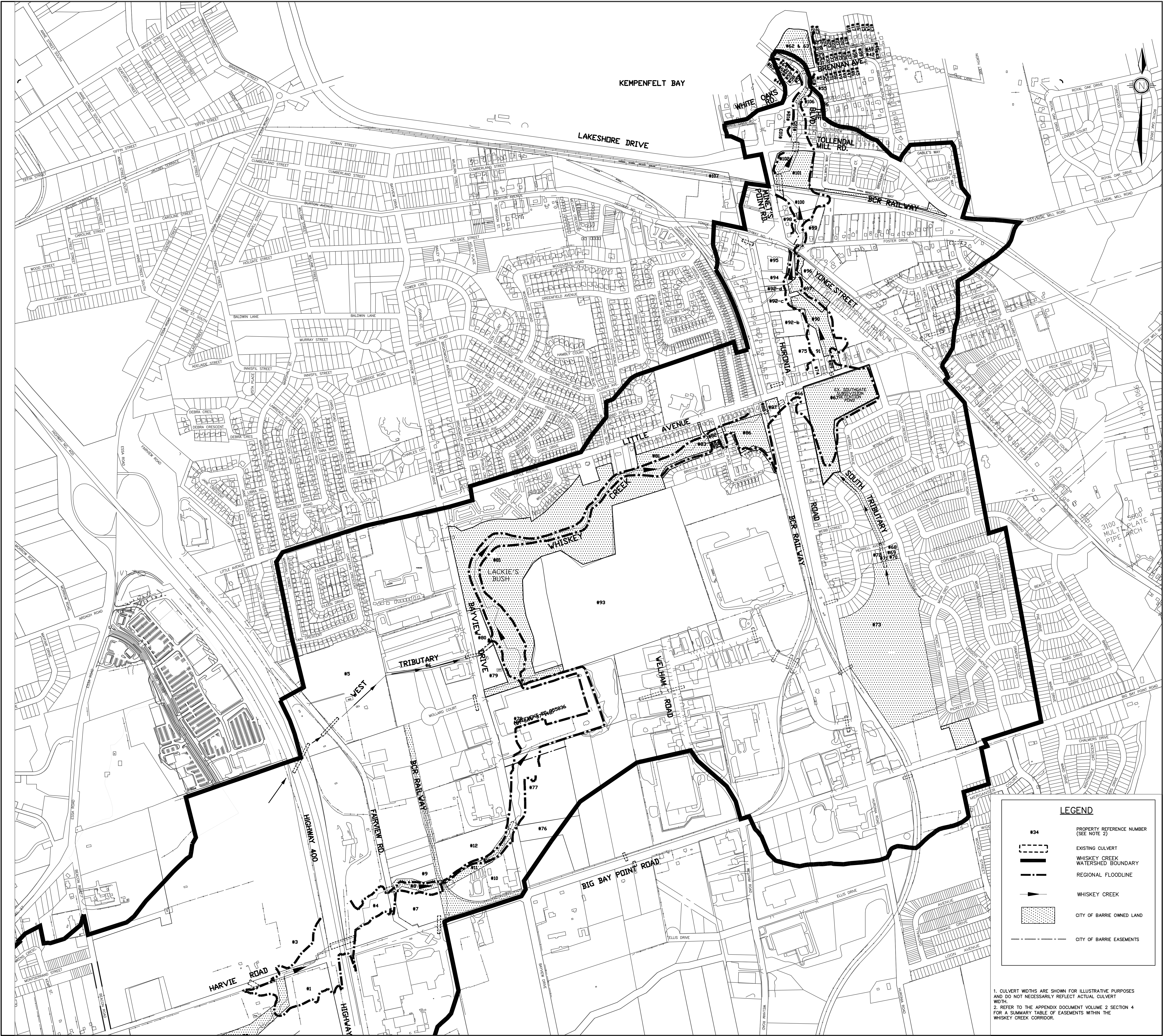
Approved


WHISKEY CREEK
MASTER DRAINAGE STUDY

AECOM

ALTERNATIVE 5
INCREASE HYDRAULIC CAPACITY AND
DESIGNATION OF SWM FACILITIES

| | | | |
|---------------|--------------|---------------|--------------|
| SCALE: 1:5000 | DESIGN: M.E. | CHECKED: M.E. | DATE: FEB 09 |
| 109940 | DRAWN: M.E. | DATE: FEB 09 | ALT-5 |



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|-------|--|--|------------|--|--|--|--|----------|----------|--|---|
| Notes | | | BENCHMARK: | | | | | Approved | Approved | WHISKEY CREEK MASTER DRAINAGE STUDY | <div><div>RG ROBINSON AND ASSOCIATES (BARRIE) LTD</div><div>10 High Street, Suite 200, Barrie, Ontario</div><div>CONSULTING ENGINEERS AND PLANNERS</div><div>(705) 721-9222</div></div> |
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