







Canada-United States-Ontario-Michigan Border Transportation Partnership

Detroit River International Crossing Environmental Assessment Study

Preliminary Construction Cost Estimate Report for Practical Alternatives (Access Road and Inspection Plaza)

Appendices B, C and D



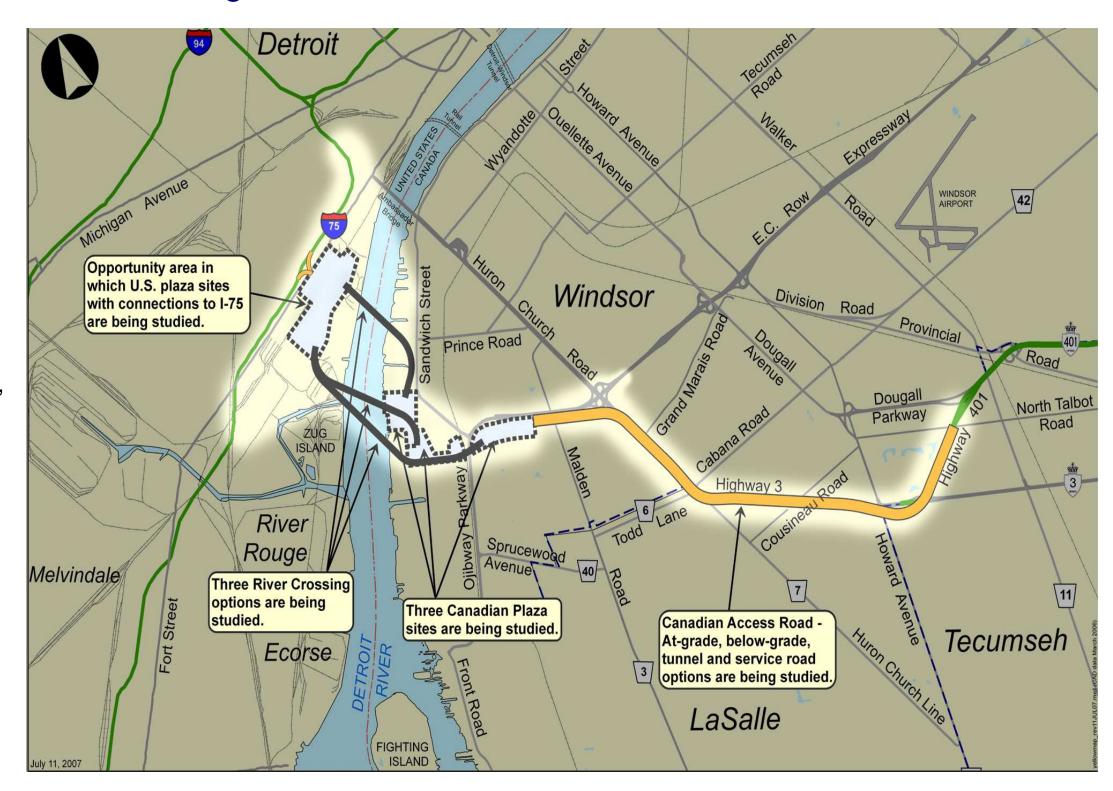
APPENDIX B

Conceptual Design Drawings for Access Road and Inspection Plaza Practical Alternatives

Crossing, Plaza & Access Road Practical Alternatives

Practical Alternative Drawings – November 2006

Refinements have been incorporated into the Practical Access Road Alternatives since Public Information Open House #3 held in March 2006. The refinements are based on comments received from members of the public as well as from stakeholders, such as the Municipalities. Key objectives of the refinements include reducing overall impacts and providing additional access to and from the freeway and across the freeway.





Memorandum

Date:

August 16, 2006 (Revised November 9, 2006)

To:

File

From:

Tim Sorochinsky

C.C.

Murray Thompson, Len Kozachuk, George Katic, Colin Wong, Roger Ward,

Kevin DeVos

Reference:

Detroit River International Crossing (DRIC) Environmental Assessment Study

Subject:

Summary of Refinements to Access Road Alternatives

This memo provides a summary of refinements, which were incorporated into the Practical Access Route Alternatives since PIOH3. The refinements are based on comments received from members of the public and stakeholders (such as the Municipalities). Key objectives of the refinements include reducing impacts and providing additional access to and from the Freeway, and across the Freeway.

Alt 1A - One-Way Service Roads on Either Side of 6-Lane Freeway, At-grade (Option 1)

- Connection added between Lamont Ave and 7th Street:
- Connection added between Lambton Road and Grand Marais Road over Freeway and Service Roads, including access from Lambton Road to southbound Service Road, and from Grand Marais Road to northbound Service Road;
- Freeway profile lowered between Labelle Street to north of Turkey Creek;
- Both Huron Church Road ramp profiles modified with Freeway profile change;
- 150m wide 'land bridge' added at Todd Lane / Cabana Road West; Freeway profile modified accordingly;
- 150m 'land bridge' added at Cousineau Road; Freeway profile modified accordingly.

Alt 1A - One-Way Service Roads on Either Side of 6-Lane Freeway, At-Grade (Option 2)

- Same modifications as described in Alternative 1A Option 1 discussion.
- Slip on/off ramps (4) added between Freeway and Service Roads at St. Clair College.

Alt 1B - One-Way Service Roads on Either Side of 6-Lane Freeway, Below-Grade (Option 1)

- Start of transition from depressed Freeway to at-grade Freeway begins south of Spring Garden Road;
- At-grade connection added between Bethlehem Avenue and Labelle Street over depressed Freeway;
- Short Freeway tunnel section added under Grand Marais Drain/Turkey Creek;
- Pulford Street extended over depressed Freeway to southbound Service Road;
- Slip on/off ramps (2) from Freeway to Service Roads added between Pulford Street and Todd Lane/Cabana Road;
- 150 m 'land bridge' added at Todd Lane/Cabana Road West;
- Huron Church Line realigned and extended over depressed Freeway to northbound Service Road (replaces Service Road connection to Todd Lane);
- 150 m 'land bridge' added at Cousineau Road;
- Montgomery Drive extended over depressed Freeway to northbound Service Road.

URS Canada Inc. 75 Commerce Valley Drive East Markham, ON Canada L3T 7N9 Tel: 905.882.4401

Tei: 905.882.4401 Fax: 905.882.4399 www.urs.ca URS

Alt 1B - One-Way Service Roads on Either Side of 6-Lane Freeway, Below-Grade (Option 2)

- Same modifications as described in Alternative 1B Option 1 discussion.
- Slip on/off ramps (4) added between Freeway and Service Roads at St. Clair College.

Alt 2A - Six Lane Freeway at-grade, Along Side Huron Church/Highway 3 (Options 1 and 2)

- Spring Garden Road extended over depressed Freeway to Huron Church Road:
- Connection added between Lambton Road and Grand Marais Road over Freeway and Huron Church Road, including access from Grand Marais Road to Huron Church Road;
- Freeway profile lowered between Bethlehem Avenue to north of Turkey Creek;
- Both Huron Church Road ramp profiles modified with Freeway profile change:
- North limit of West Service Road changed from Lambton Road to Gratiot Street (formerly, West Service Road was provided from Lambton Road to Todd Lane).

Alt 2B - Six Lane Freeway Below-Grade, Along Side Huron Church/Highway 3 (Options 1 and 2)

- Spring Garden Road extended over depressed Freeway to Huron Church Road;
- Short Freeway tunnel section added under Grand Marais Drain/Turkey Creek;
- Montgomery Road extended over depressed Freeway to Highway 3.

Alt 3 - Cut & Cover Tunnel Below Rebuilt Huron Church/Highway 3 Corridor

- No change.

ALL ACCESS ROAD ALTERNATIVES

The following note was added to all alternatives:

"Maintain Pathway along Grand Marais Drain/Turkey Creek"

Description of Options:

- Option 1: Maintain Right-of-Way limit on west side of Highway 3 from St. Clair College to north of Howard Avenue.
- Option 2: Maintain Right-of-Way limit on east side of Highway 3 from St. Clair College to north of Howard Avenue.

KEY ROADWAY MODIFICATIONS AT PLAZAS

Plaza A Alternative: Matchette Road realigned along the west end of Plaza A.

All Plaza Alternatives: Add ramp from Malden Road to Freeway westbound (to new international bridge) and add ramp from Freeway eastbound (from bridge) to Malden Road.

LEGEND



AQUATIC HABITAT

MUNICIPAL BOUNDARIES

APPROXIMATE LIMIT OF AREA
OF CONTINUED ANALYSIS

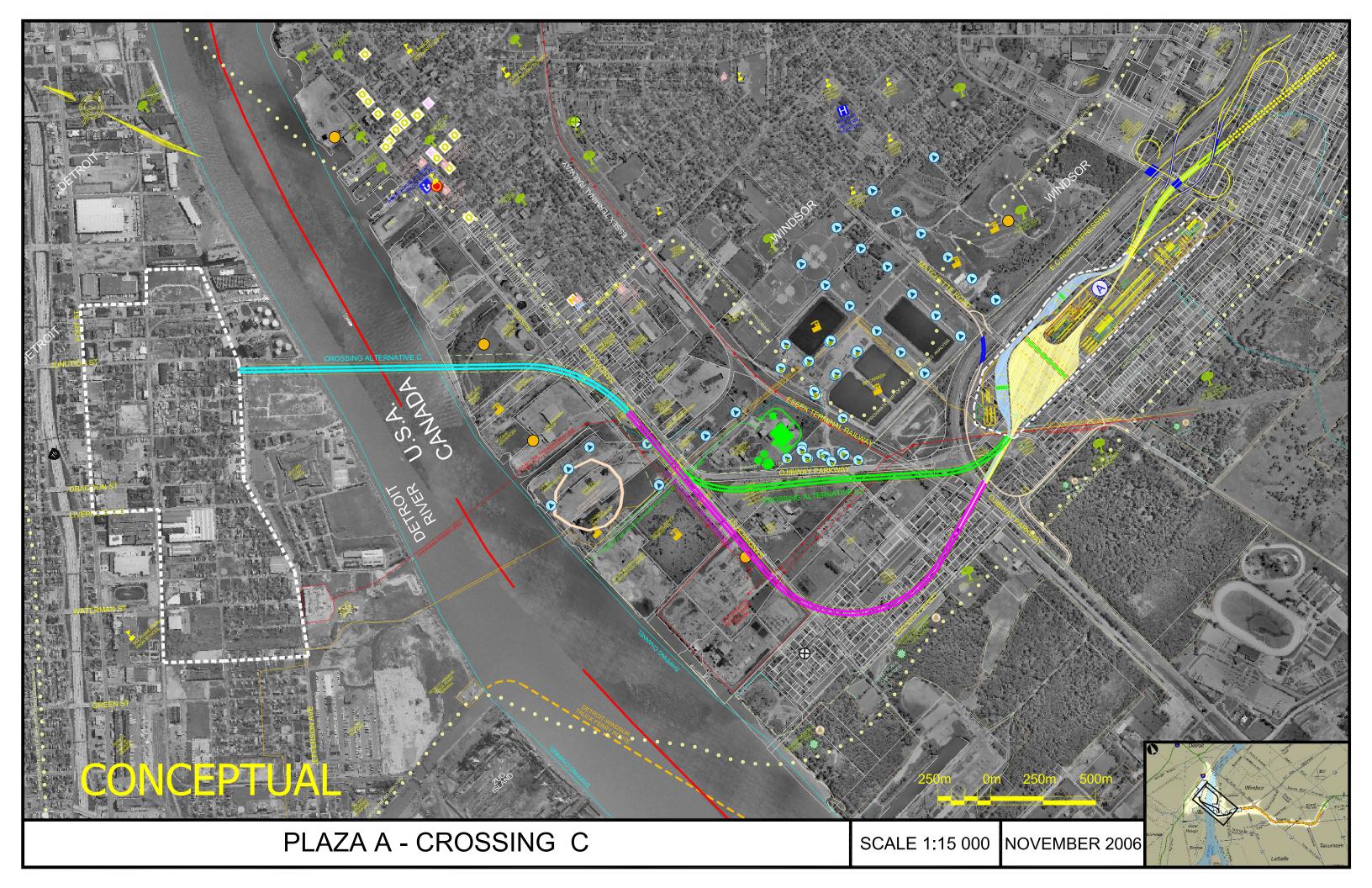
ANALYSIS ENVELOPE

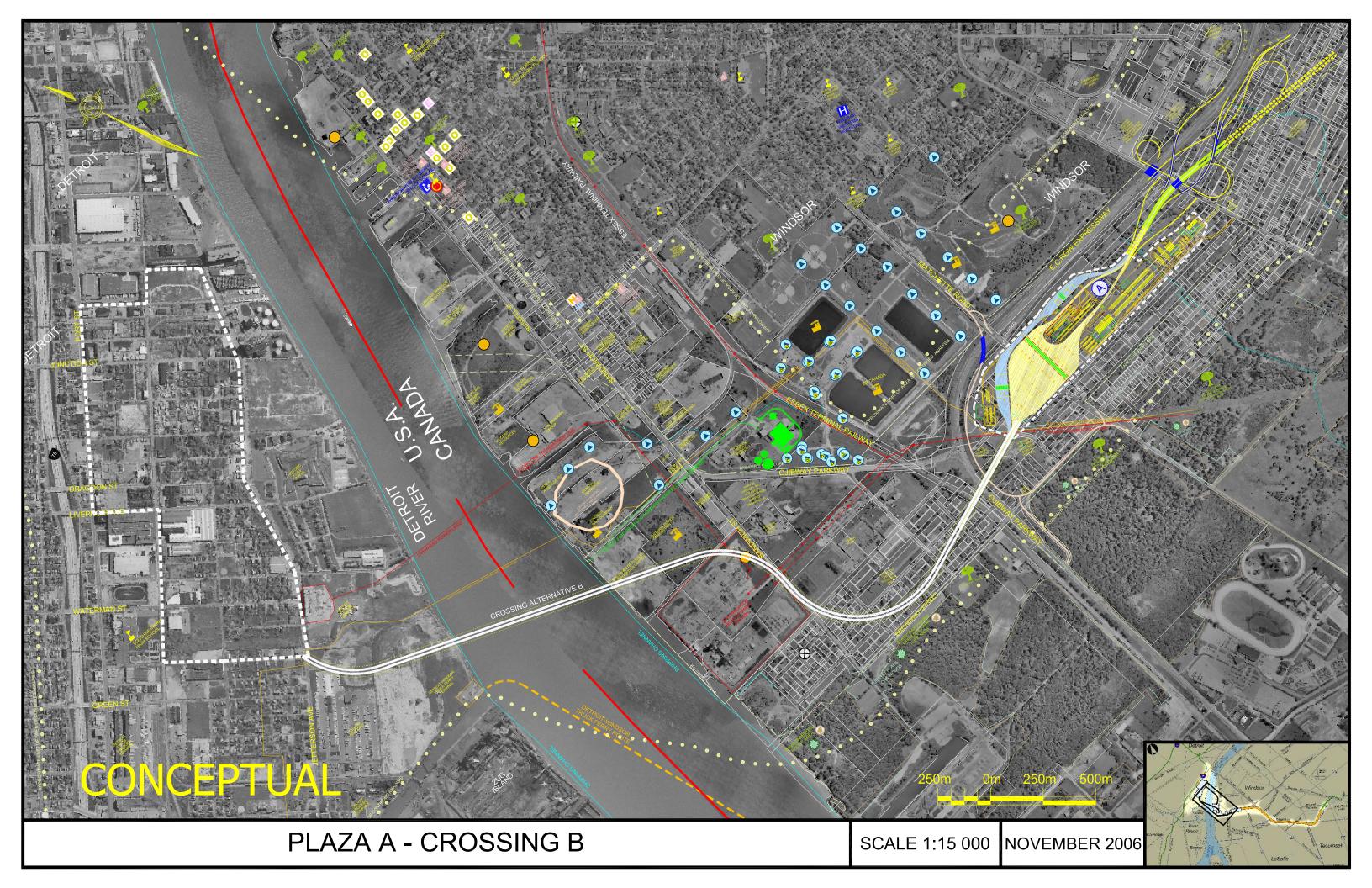
ANSI AREA
ENVIRONMENTALLY SENSITIVE AREA
WETLANDS AREA

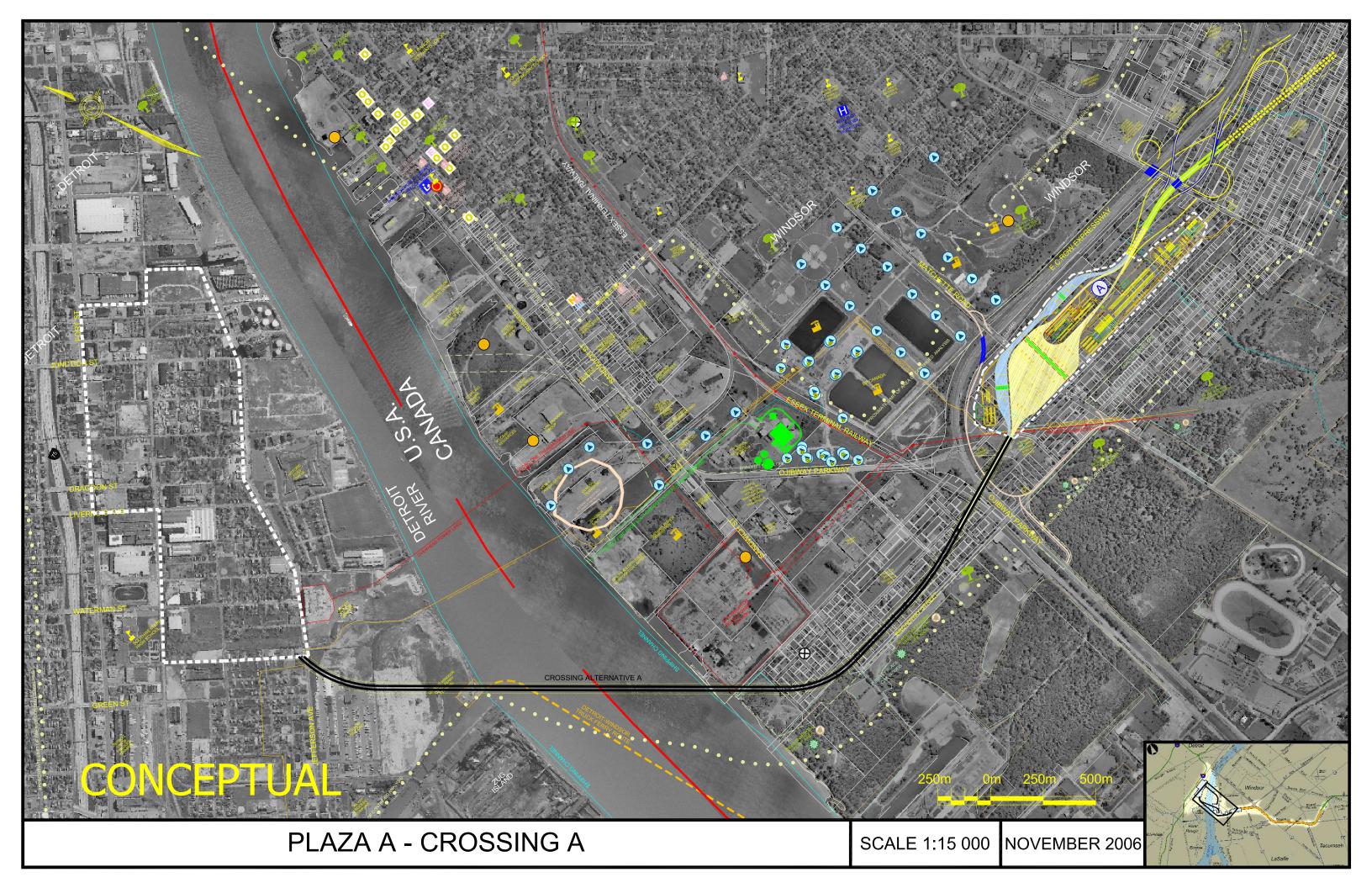
- SCHOOL
- PLACE OF WORSHIP
- PARK OR
 RECREATIONAL AREA
- * TRAIL
- MUSEUM
- NATIONAL HERITAGE SITE
- AIR MONITORING STATION

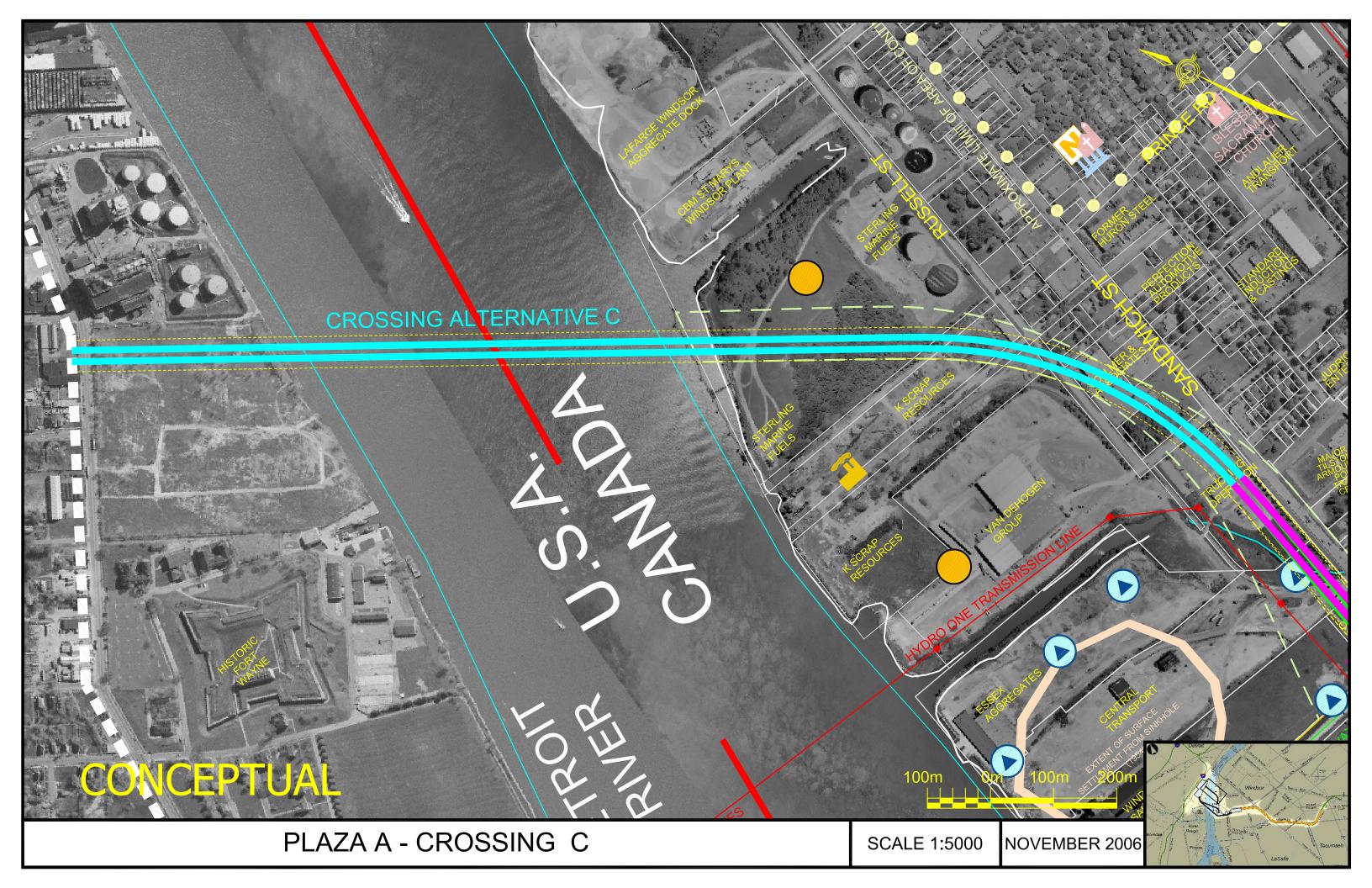
- ENVIRONMENTALLY
 SENSITIVE AREA
- ANSI
- SENIORS RESIDENCE/
 EXTENDED CARE FACILITY
- △ MOE WELL
- BRINE WELL
- INDUSTRY RESOURCE SITE
- CLOSED LANDFILL

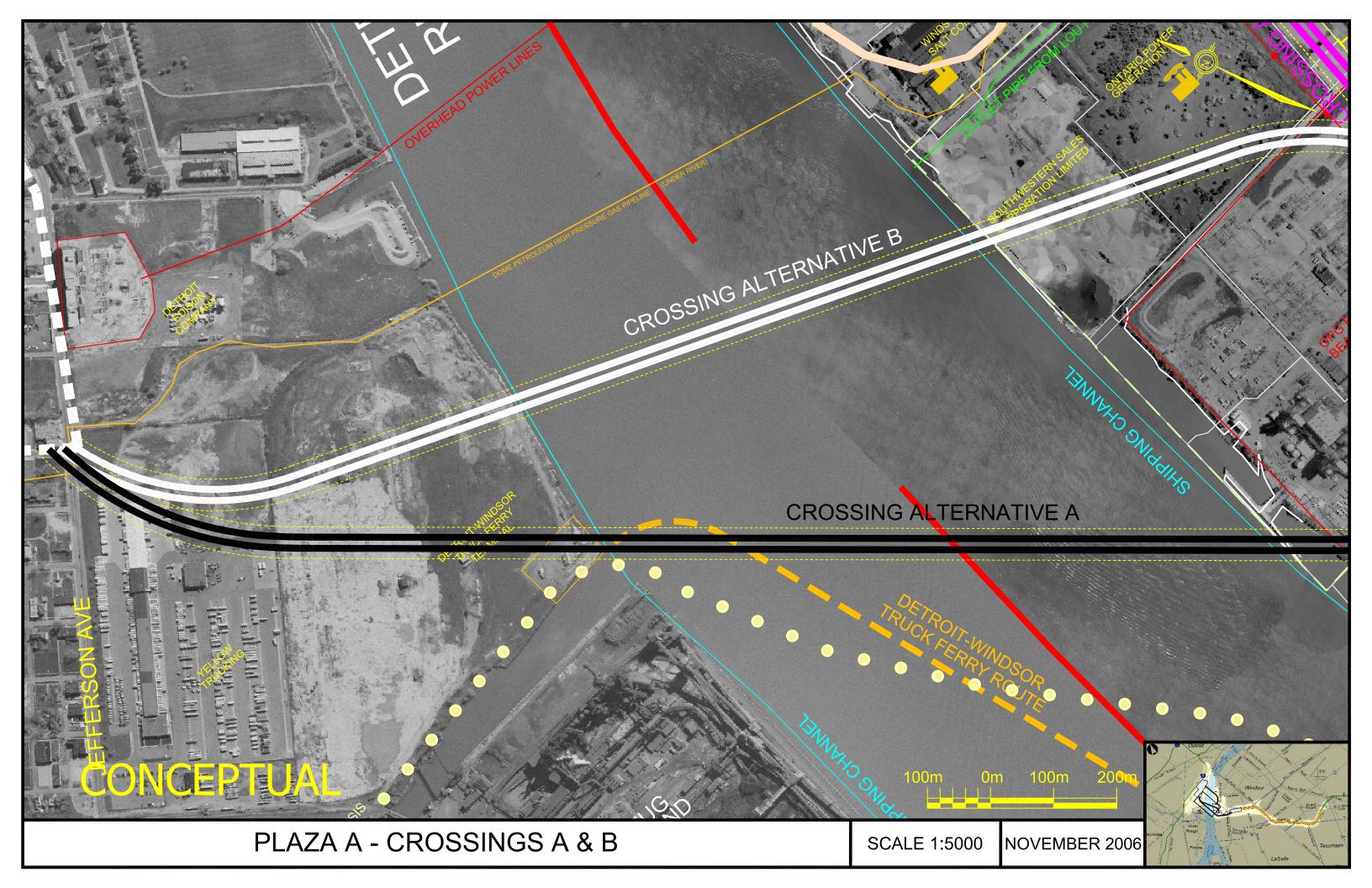
Plaza Alternative A

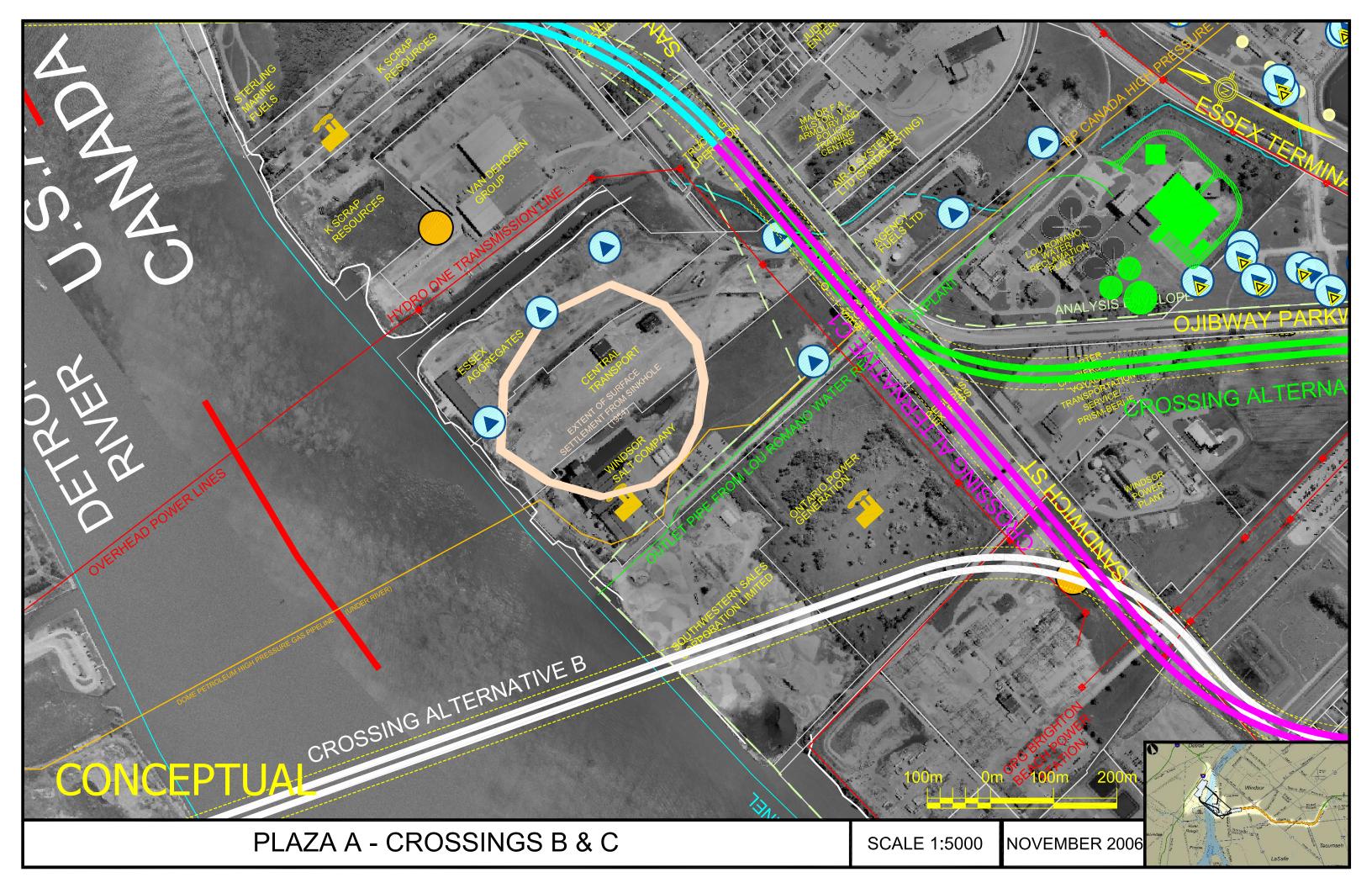


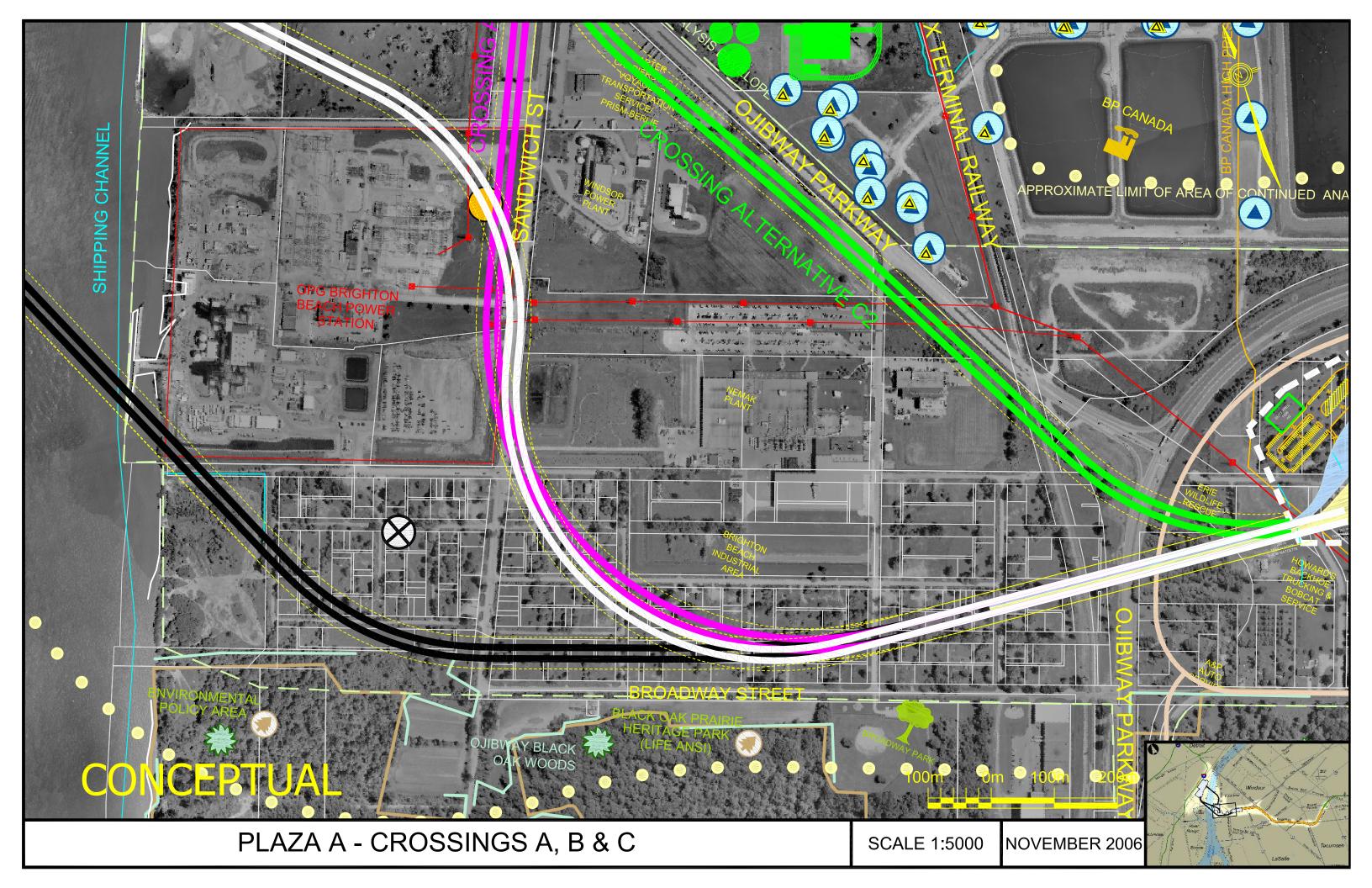


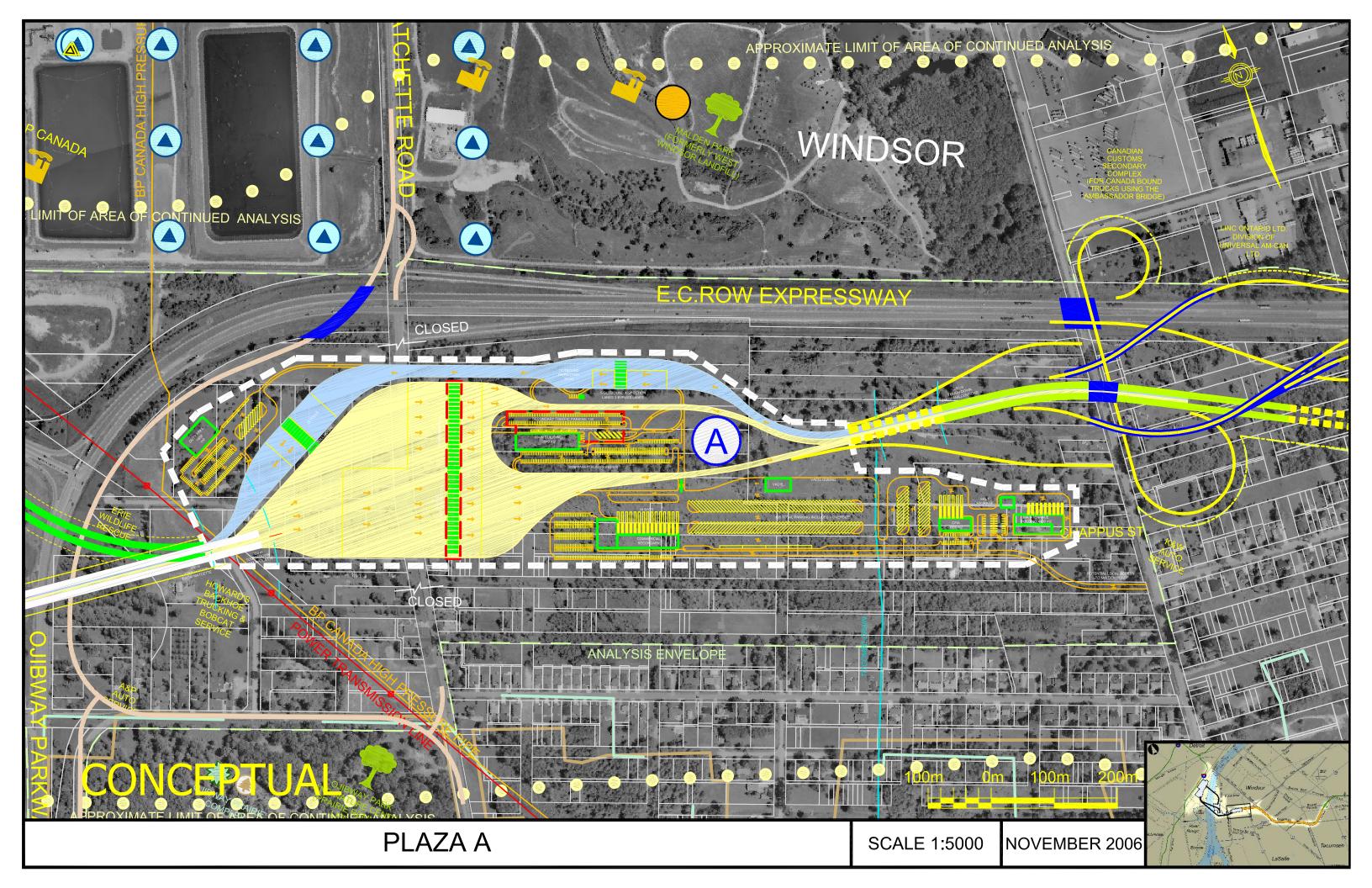


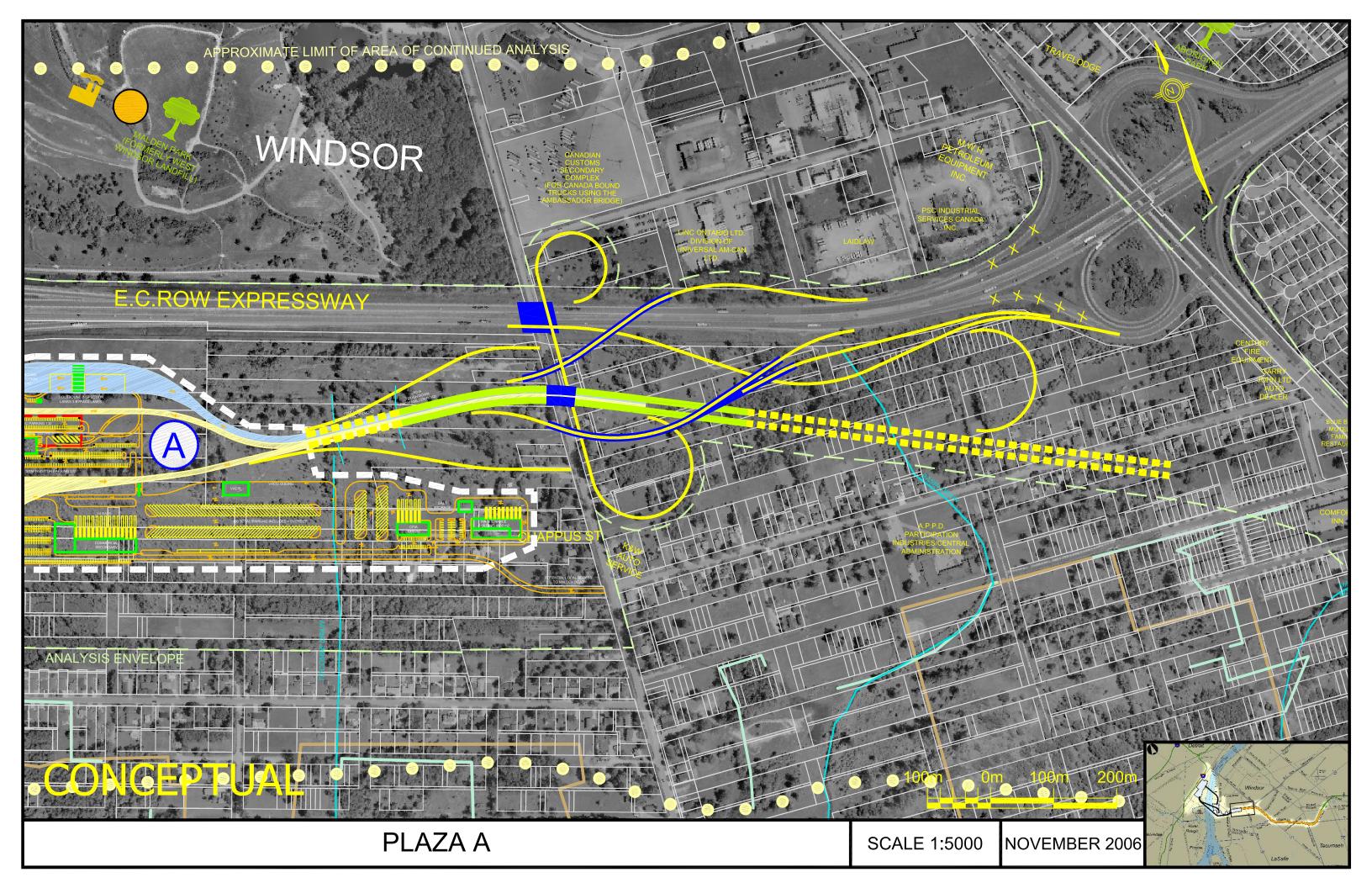




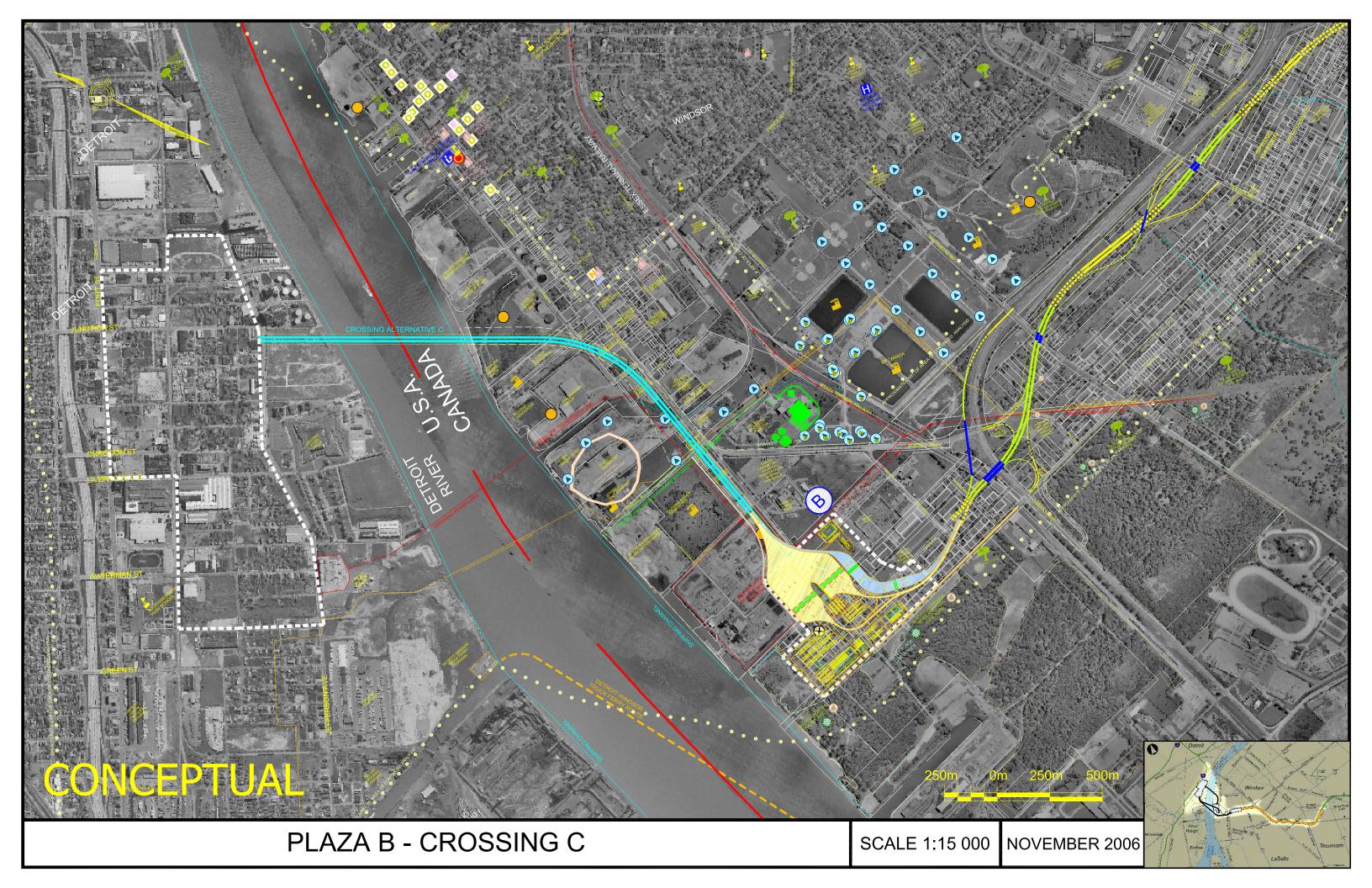


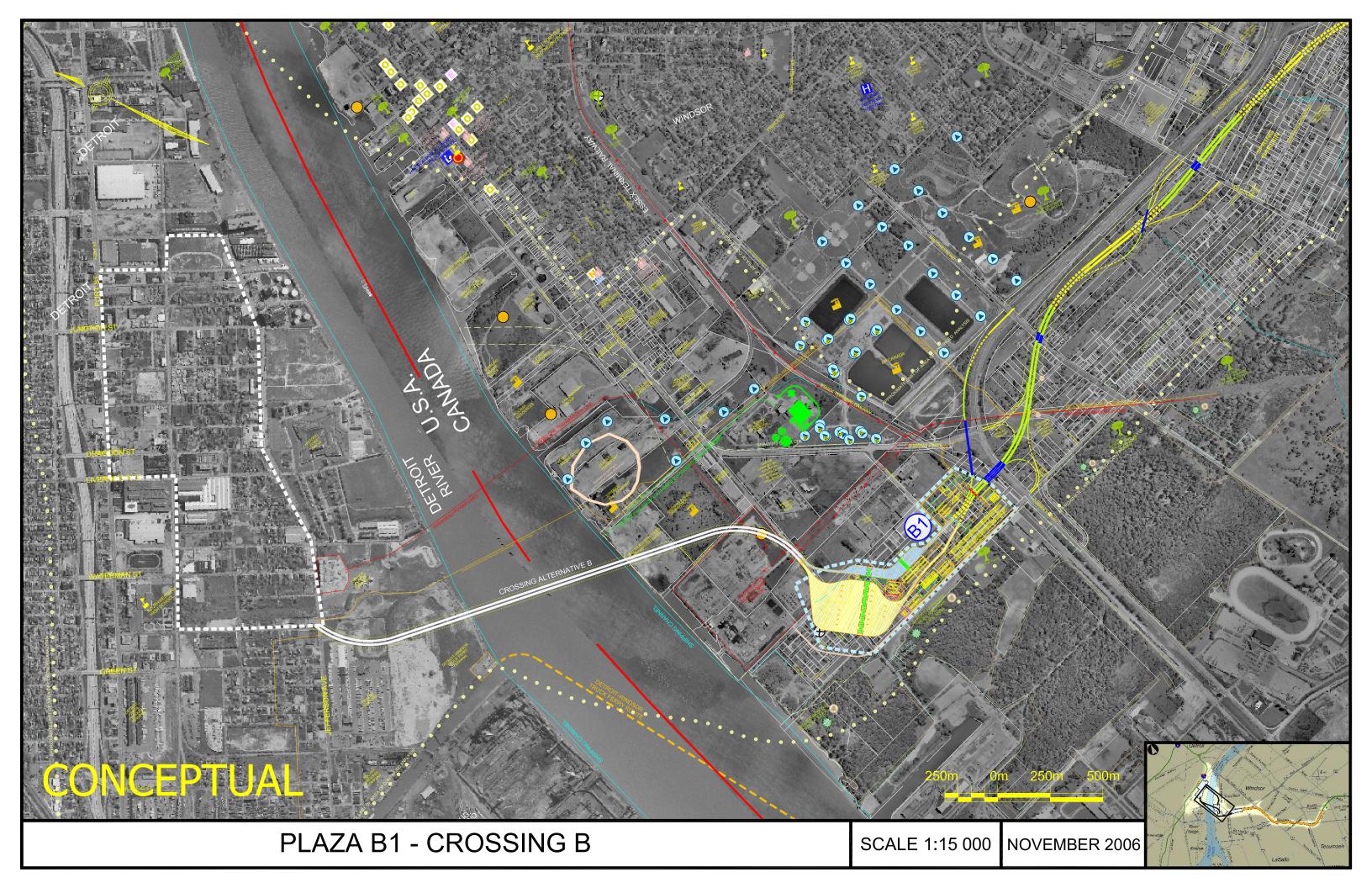


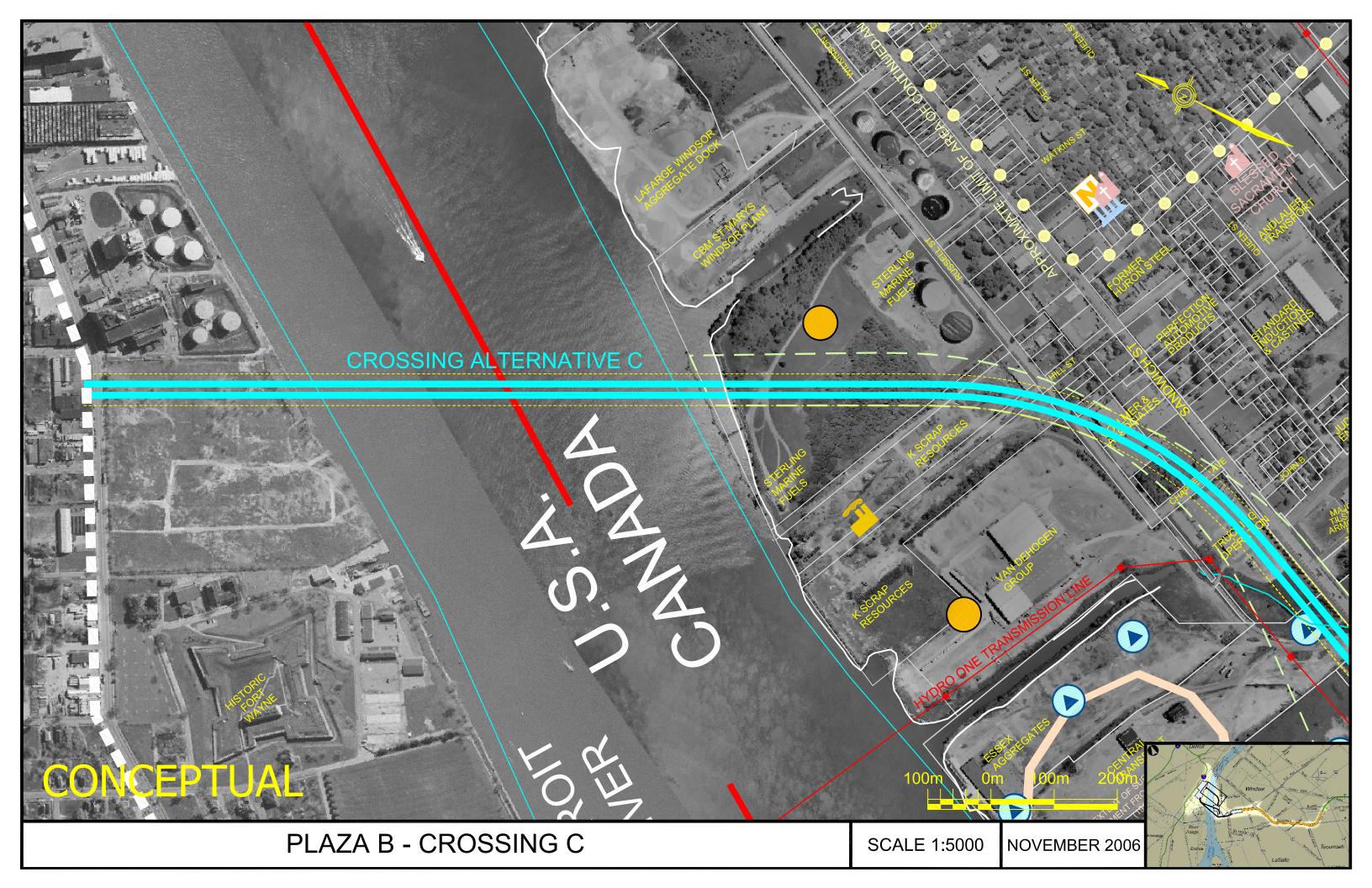


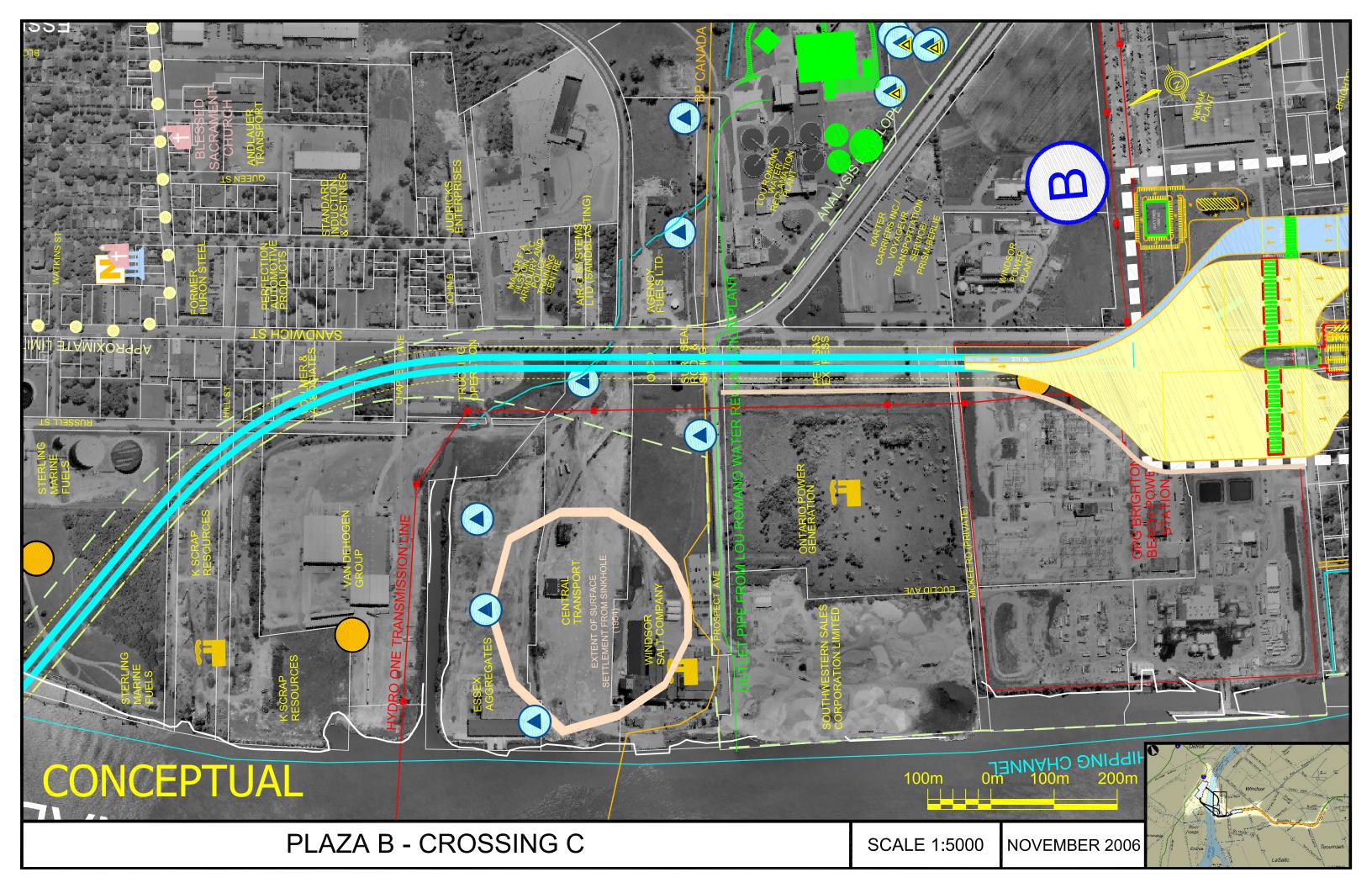


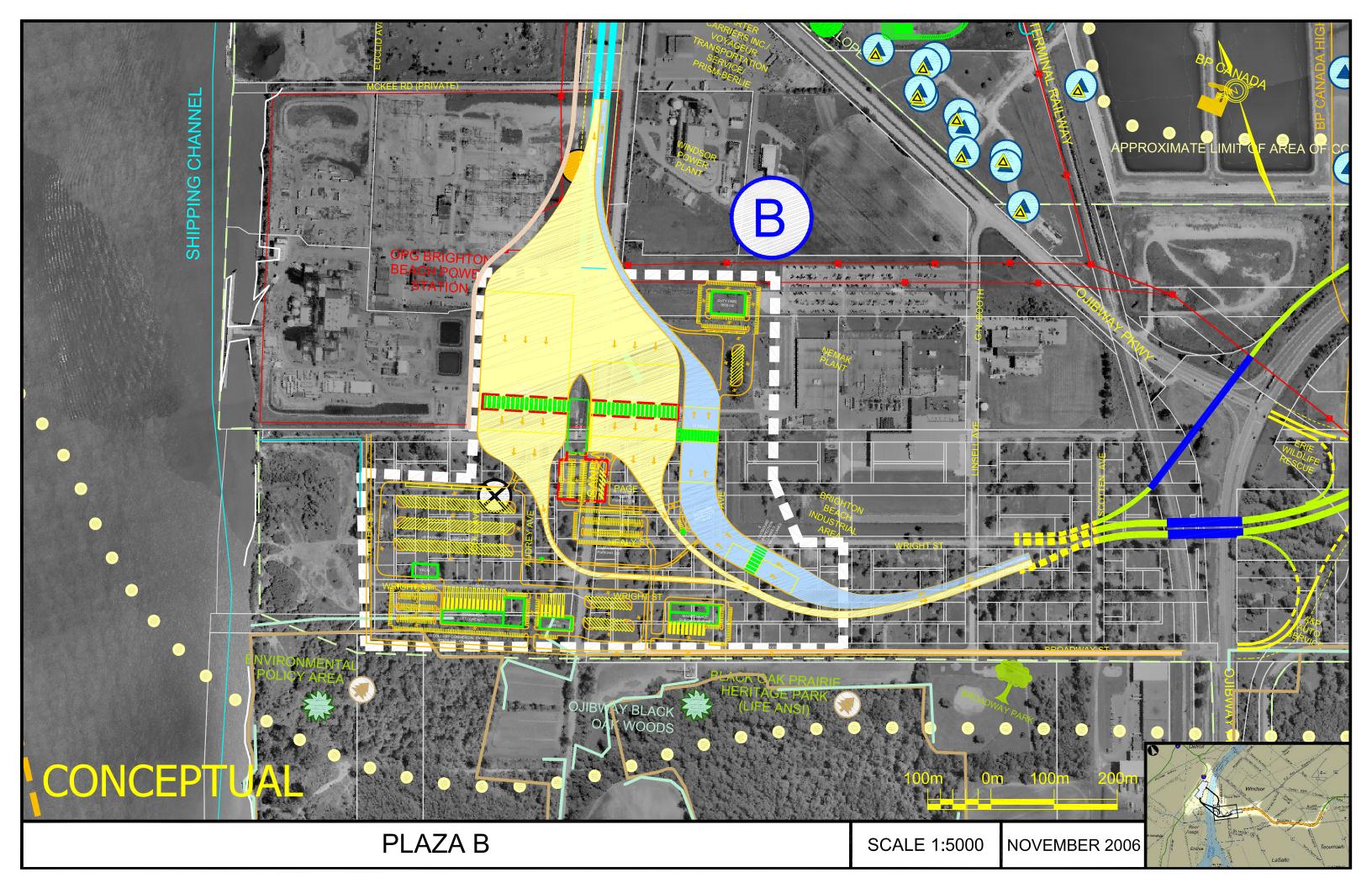
Plaza Alternatives B & B1

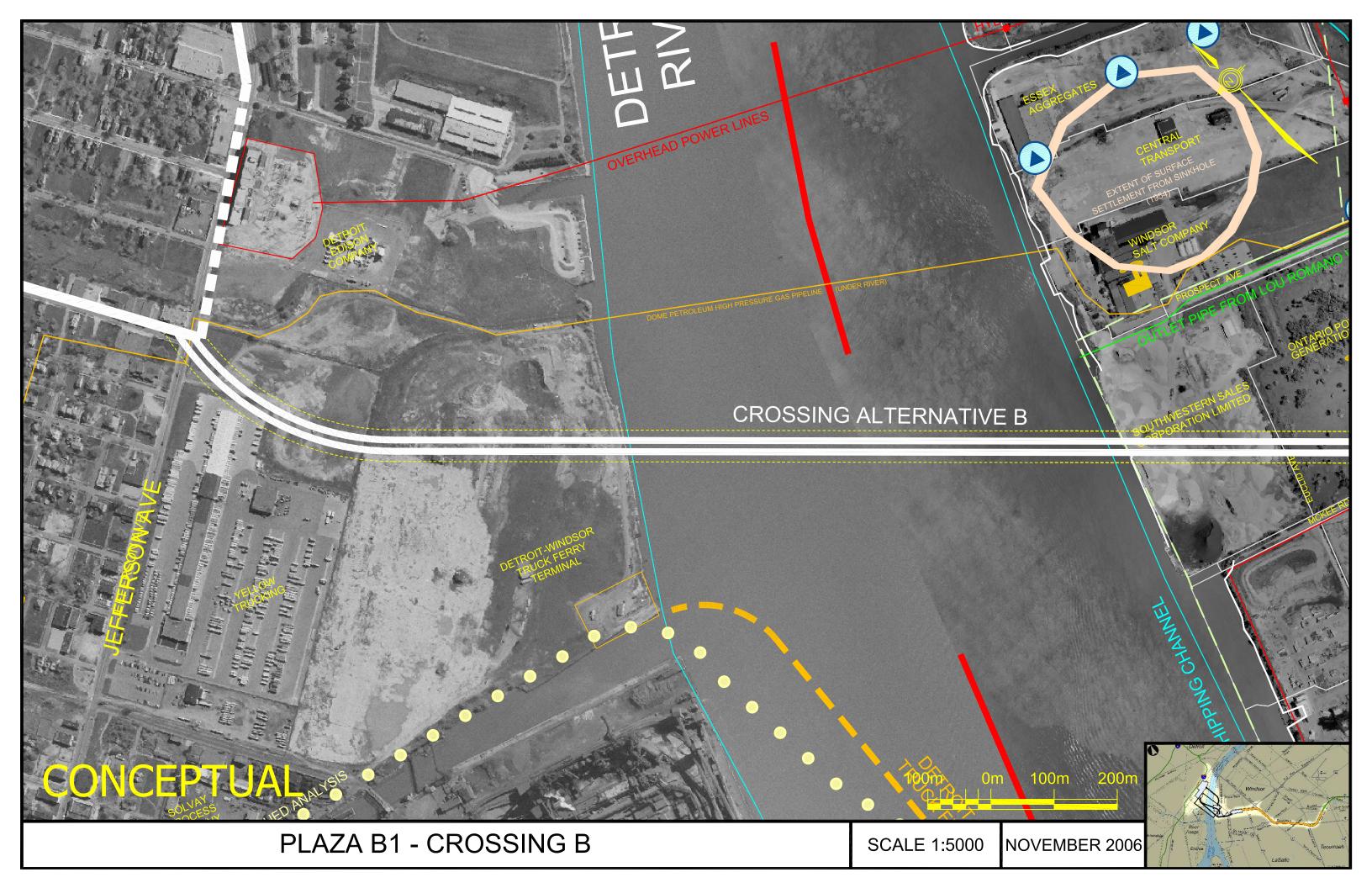


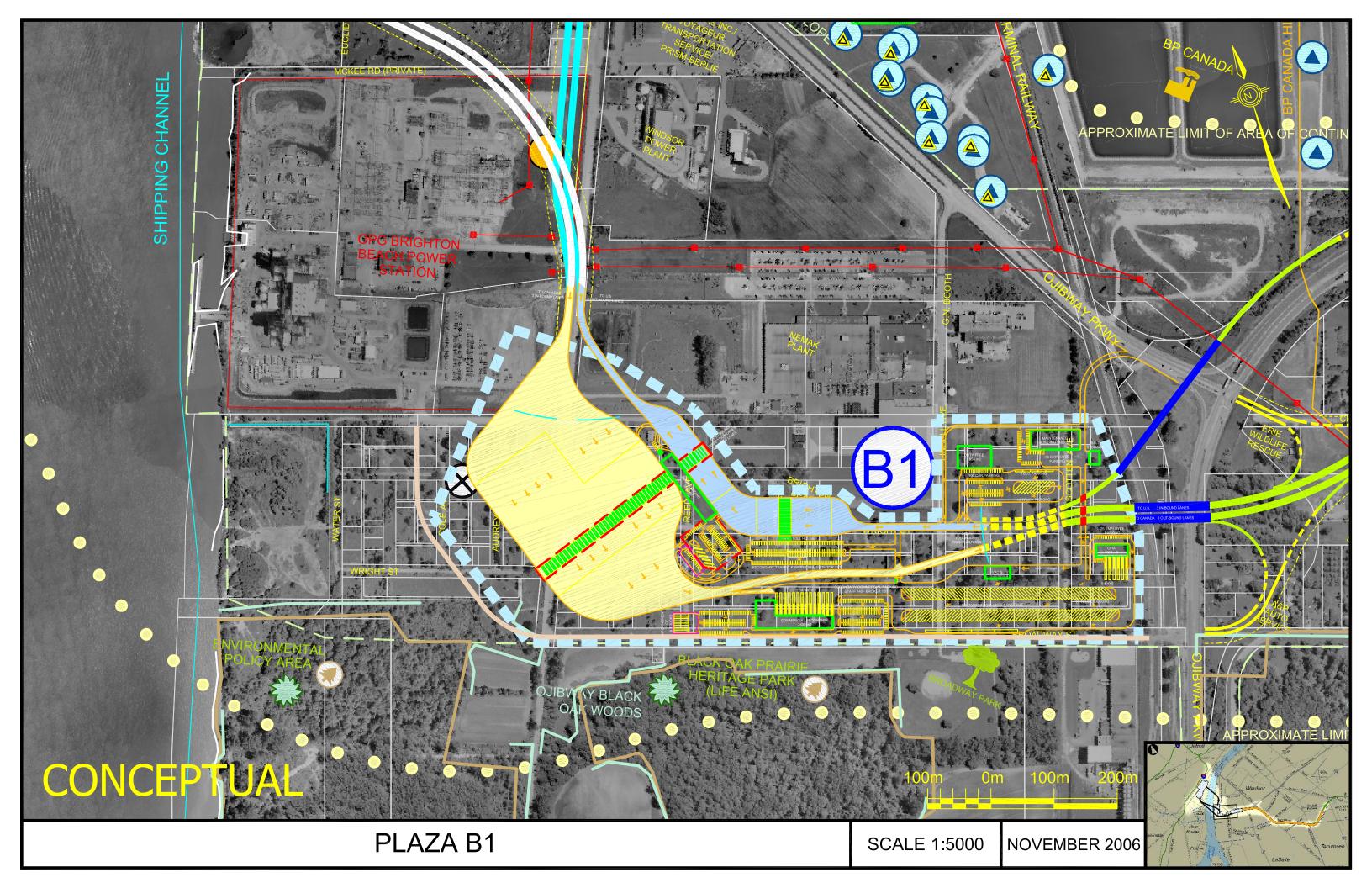


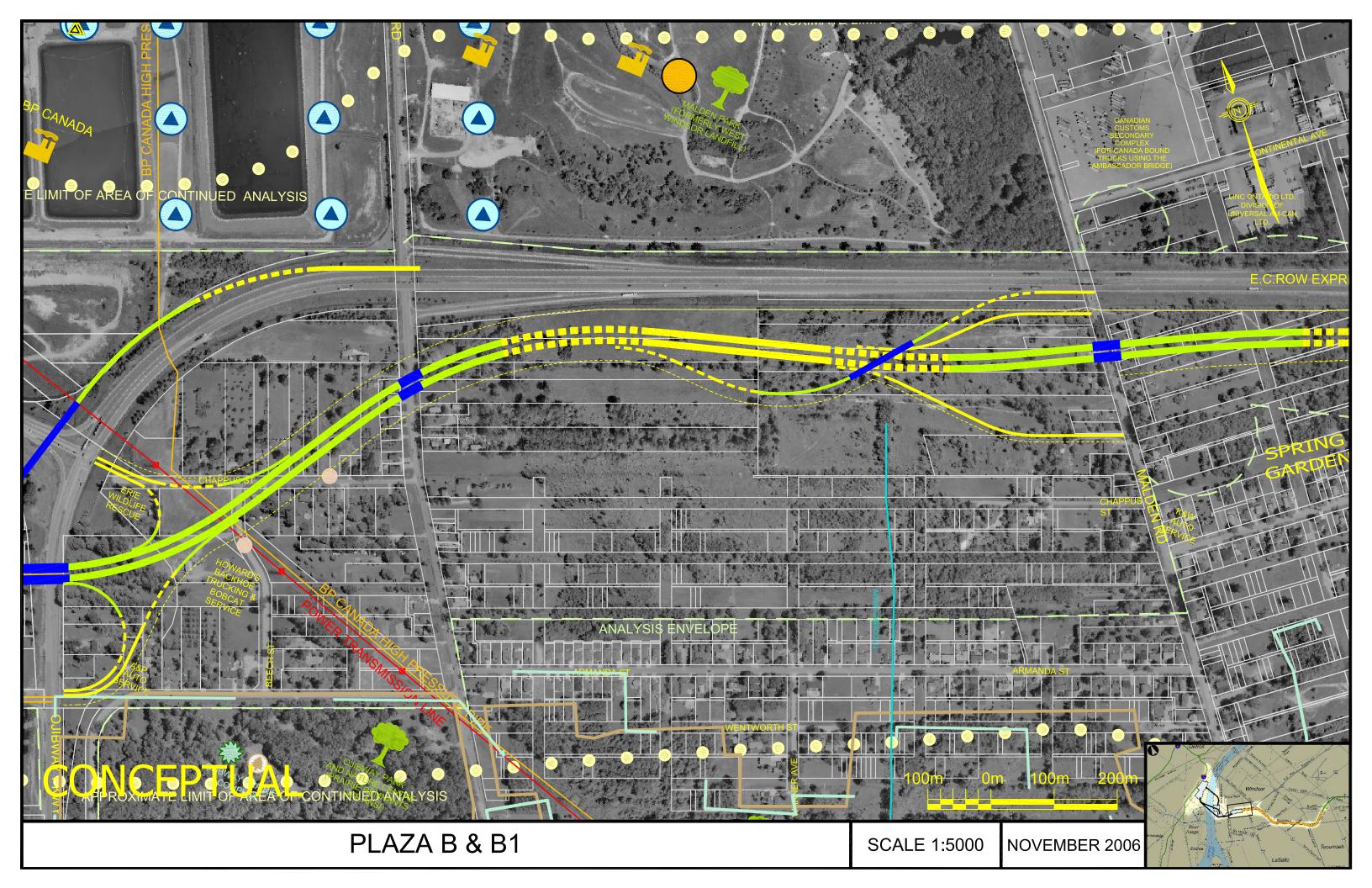




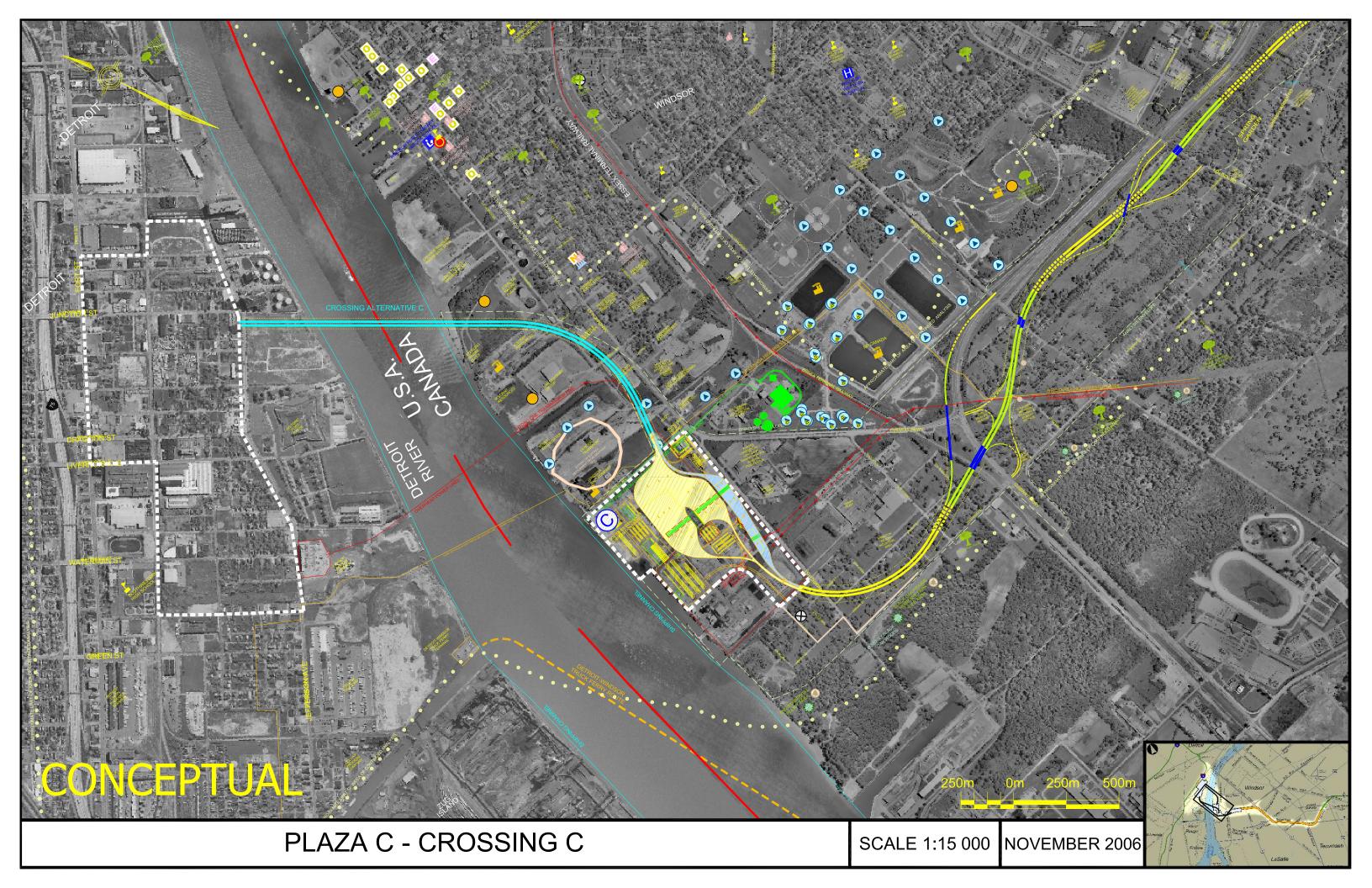


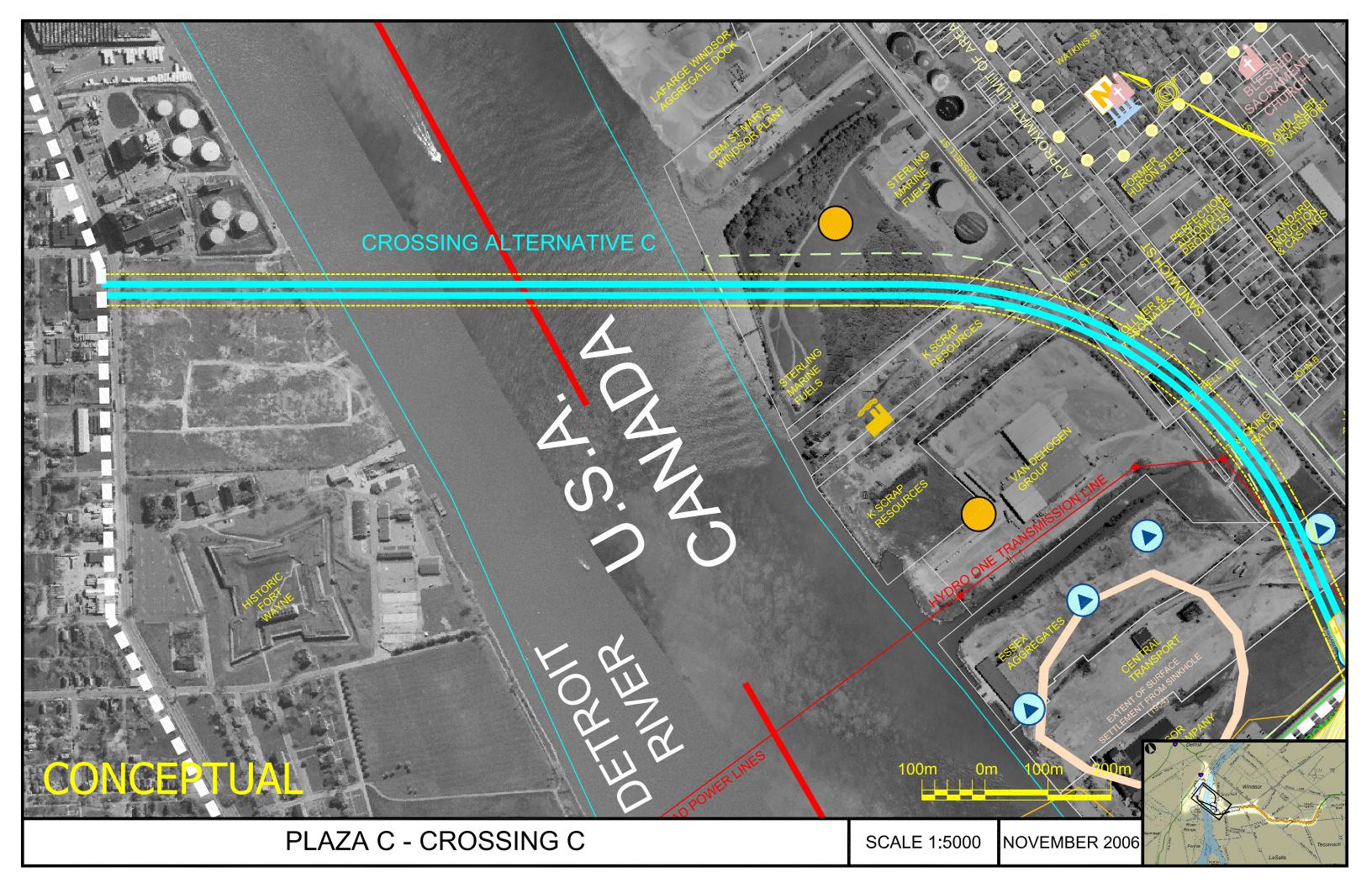


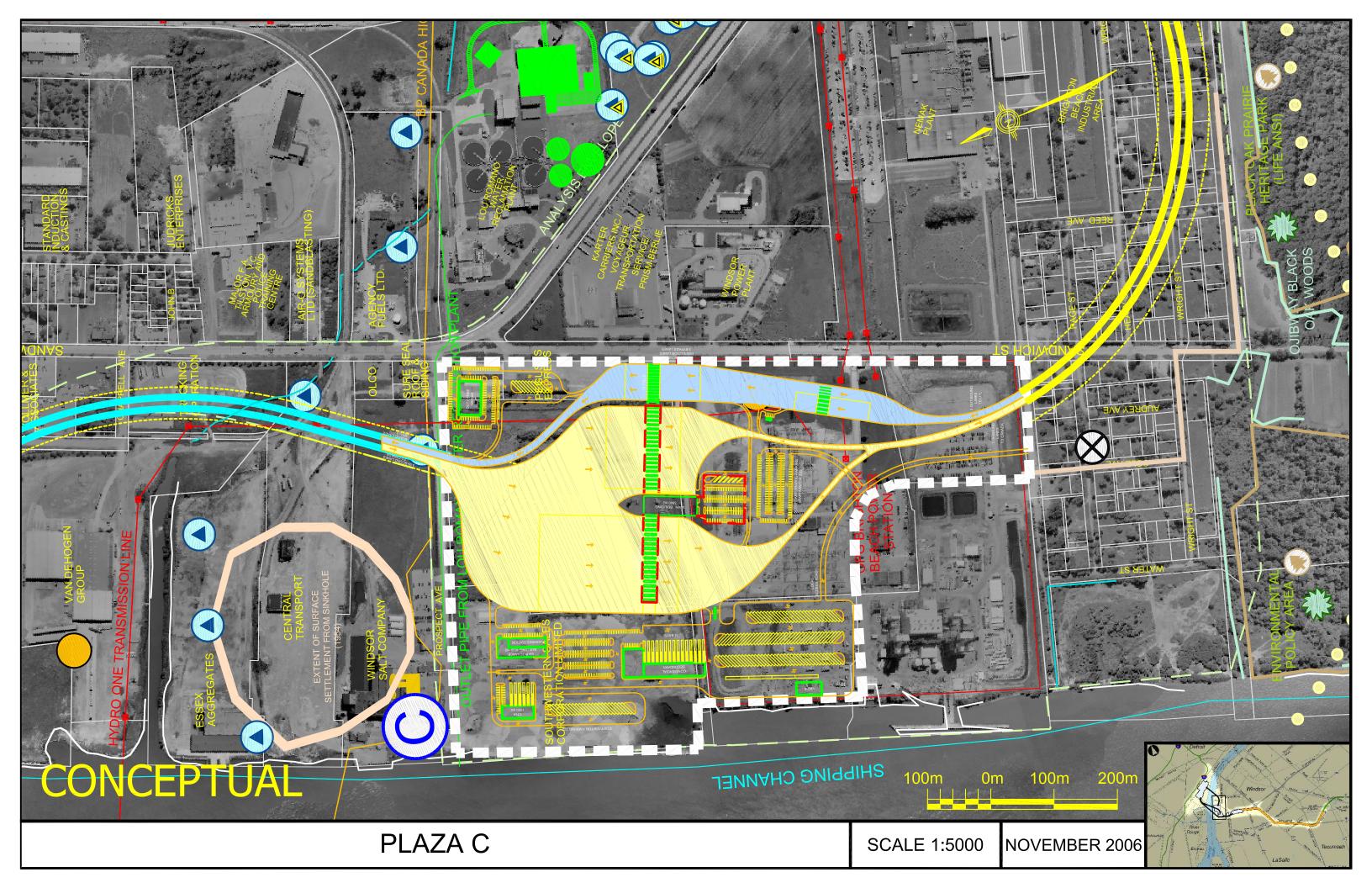


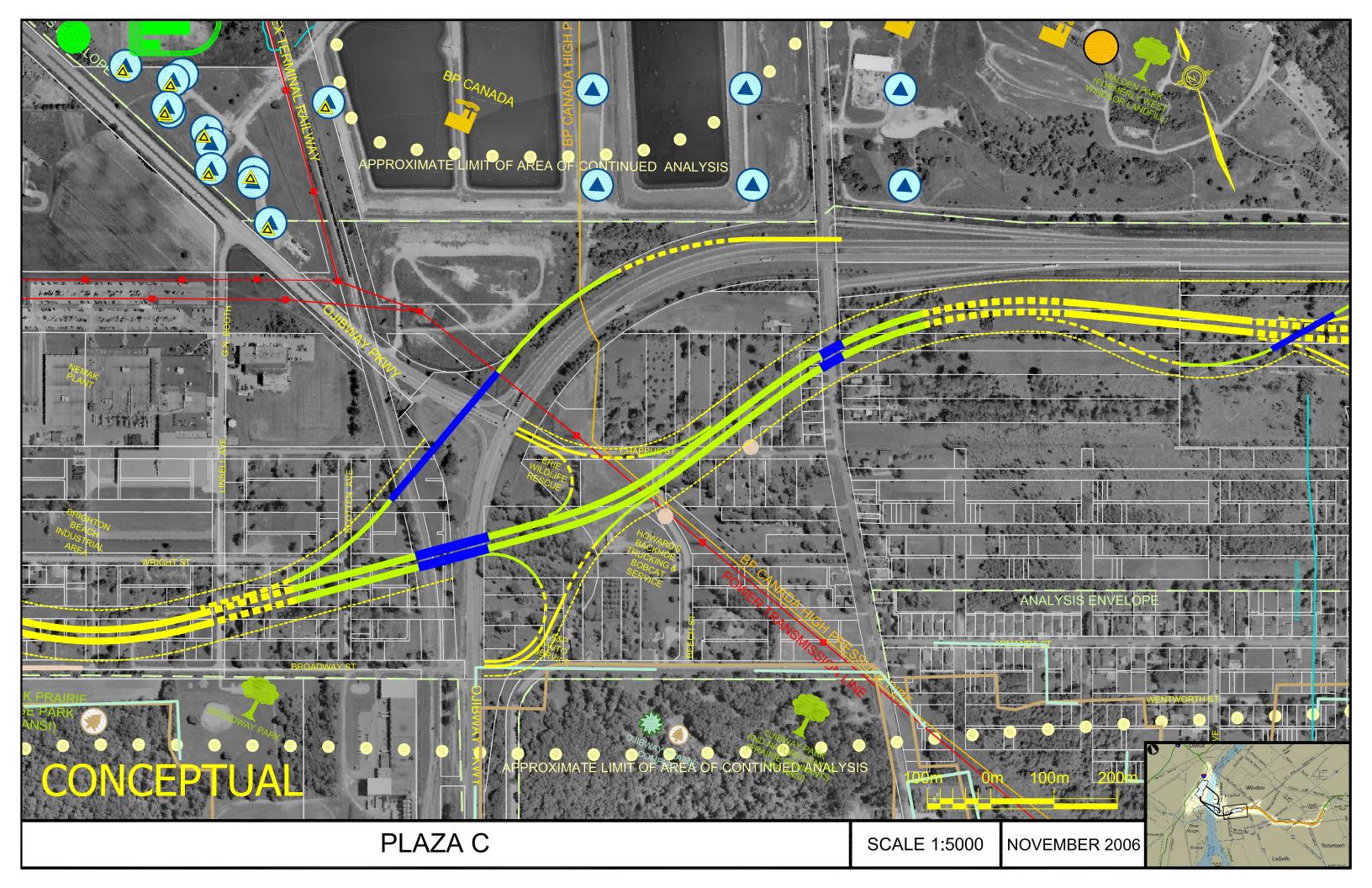


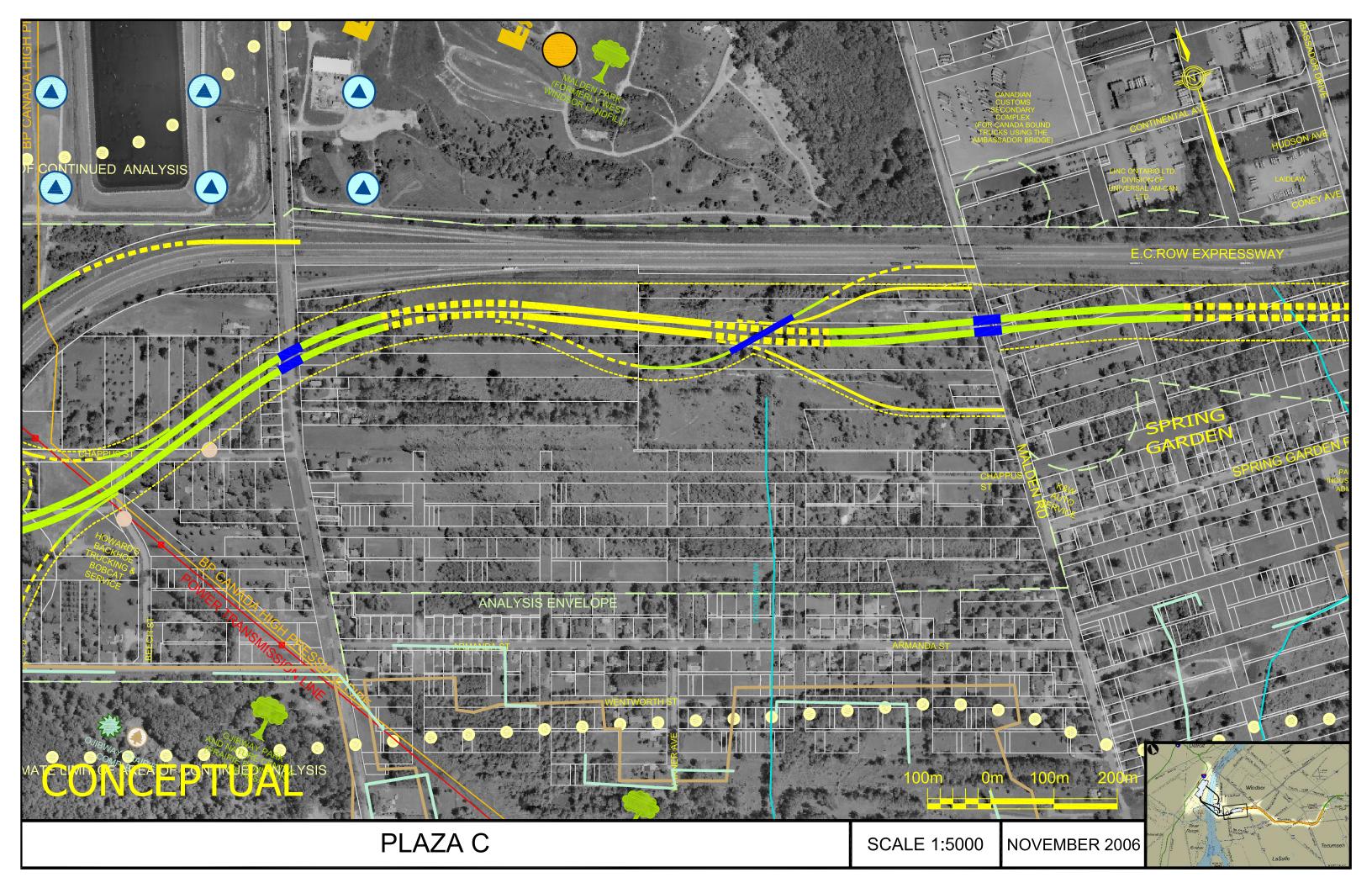
Plaza Alternative C



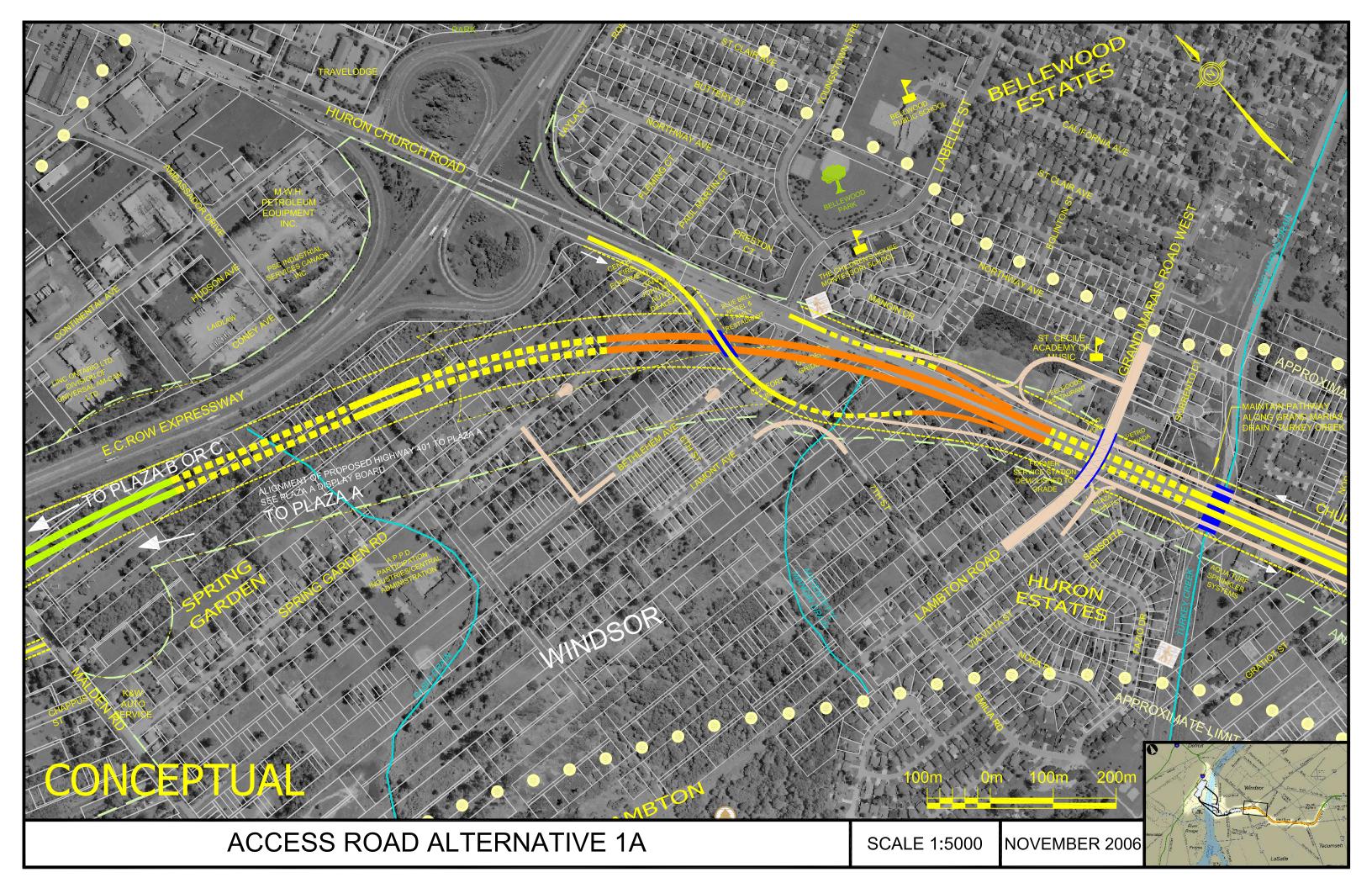


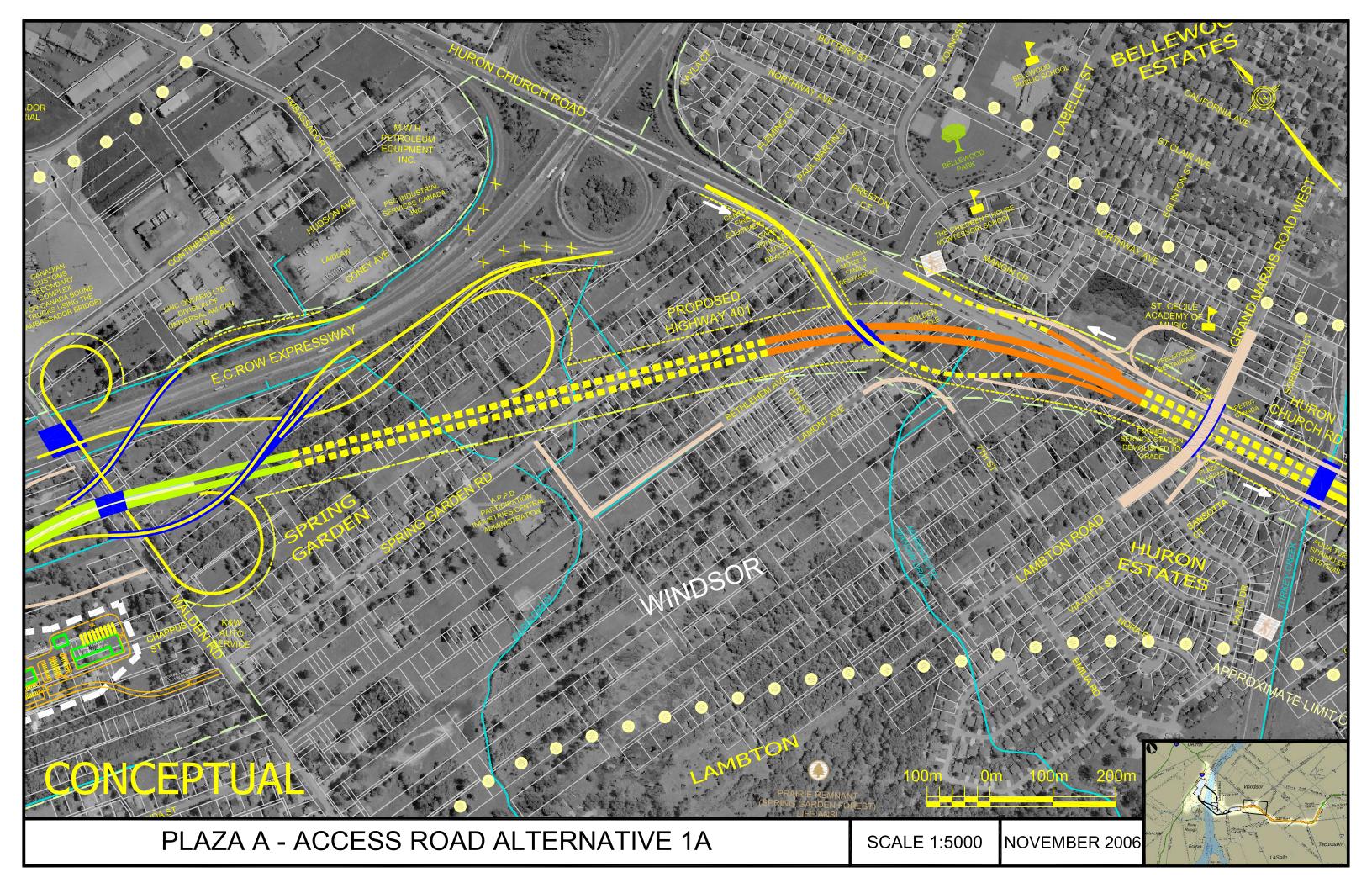


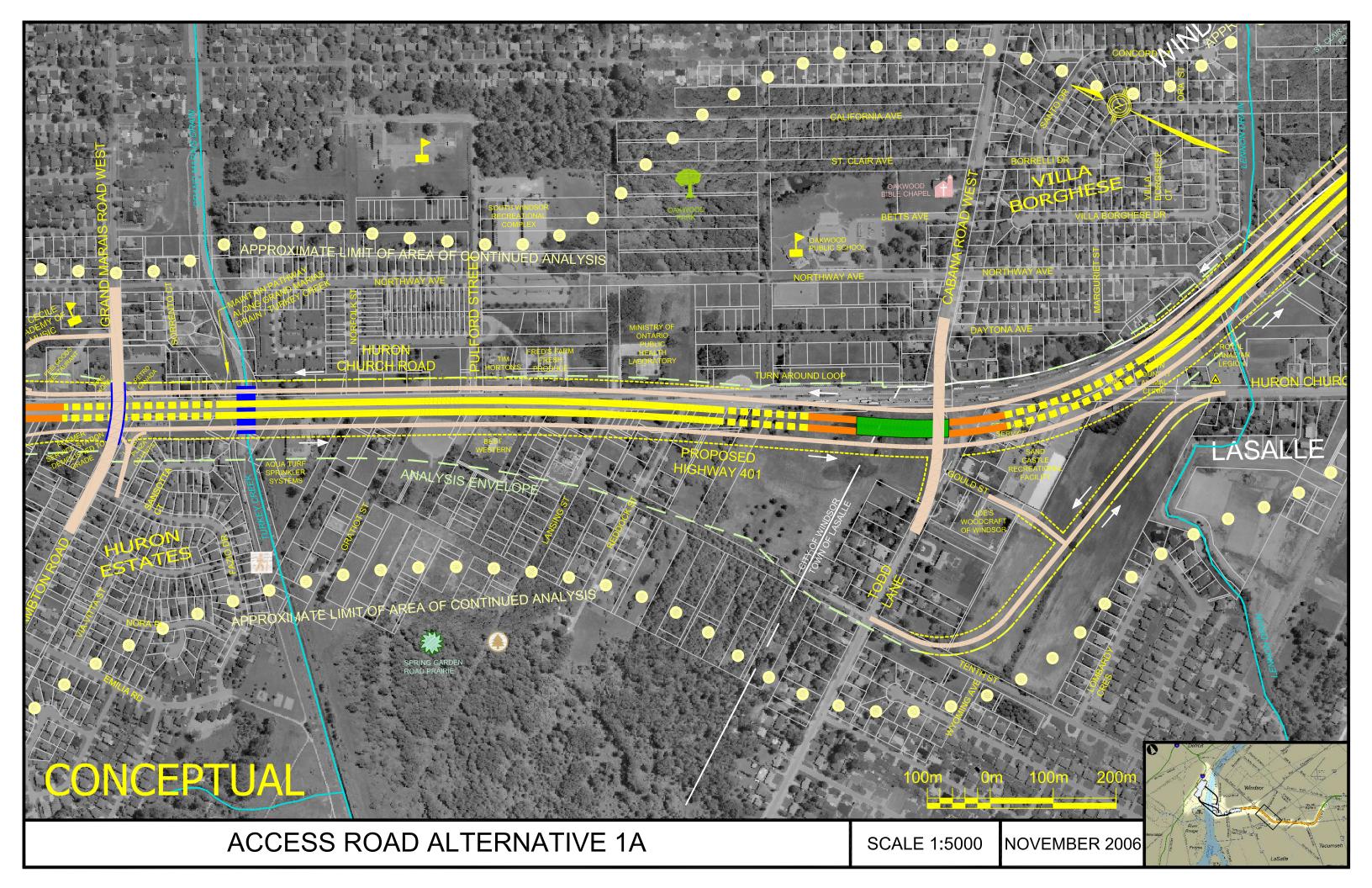


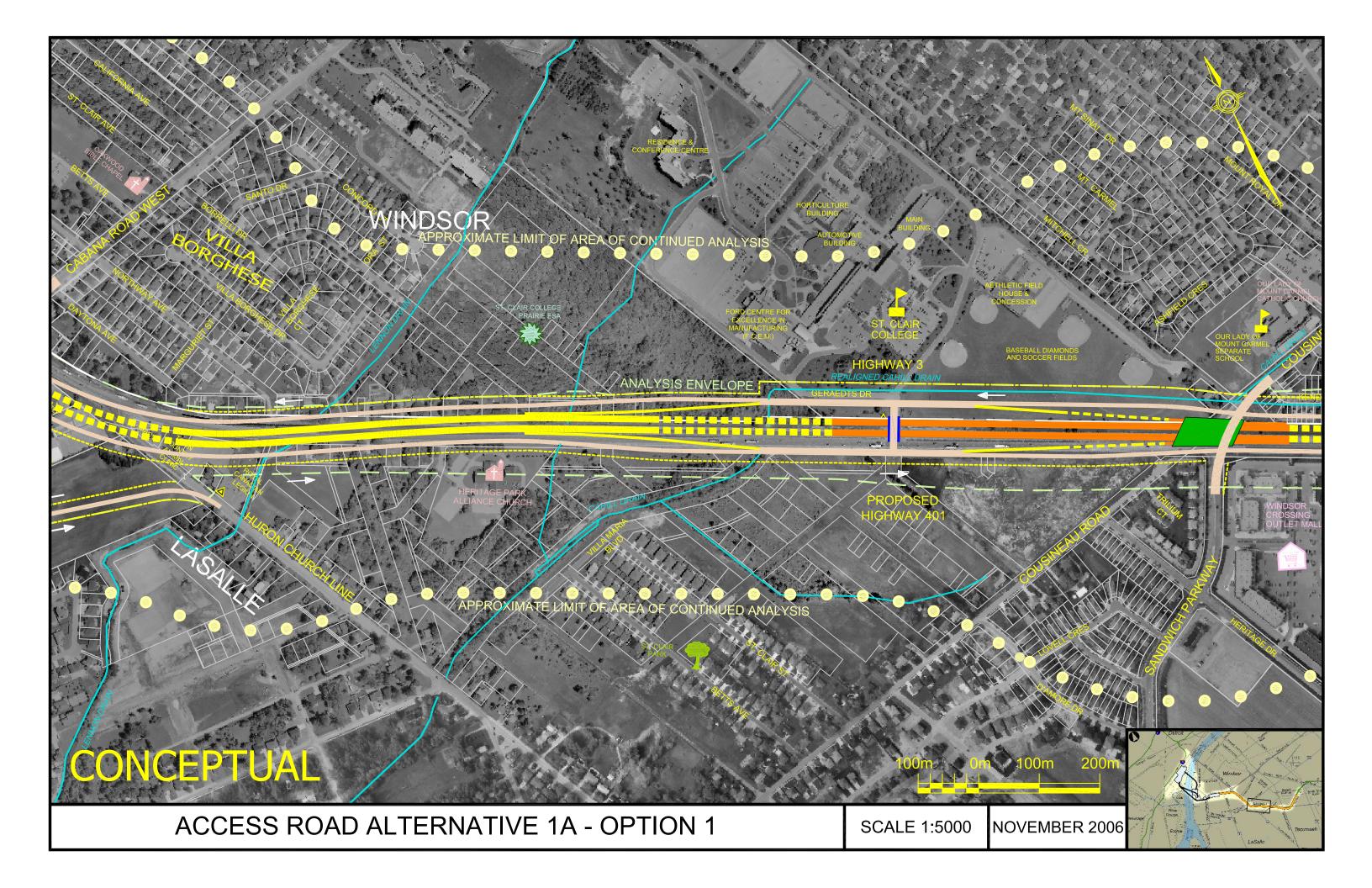


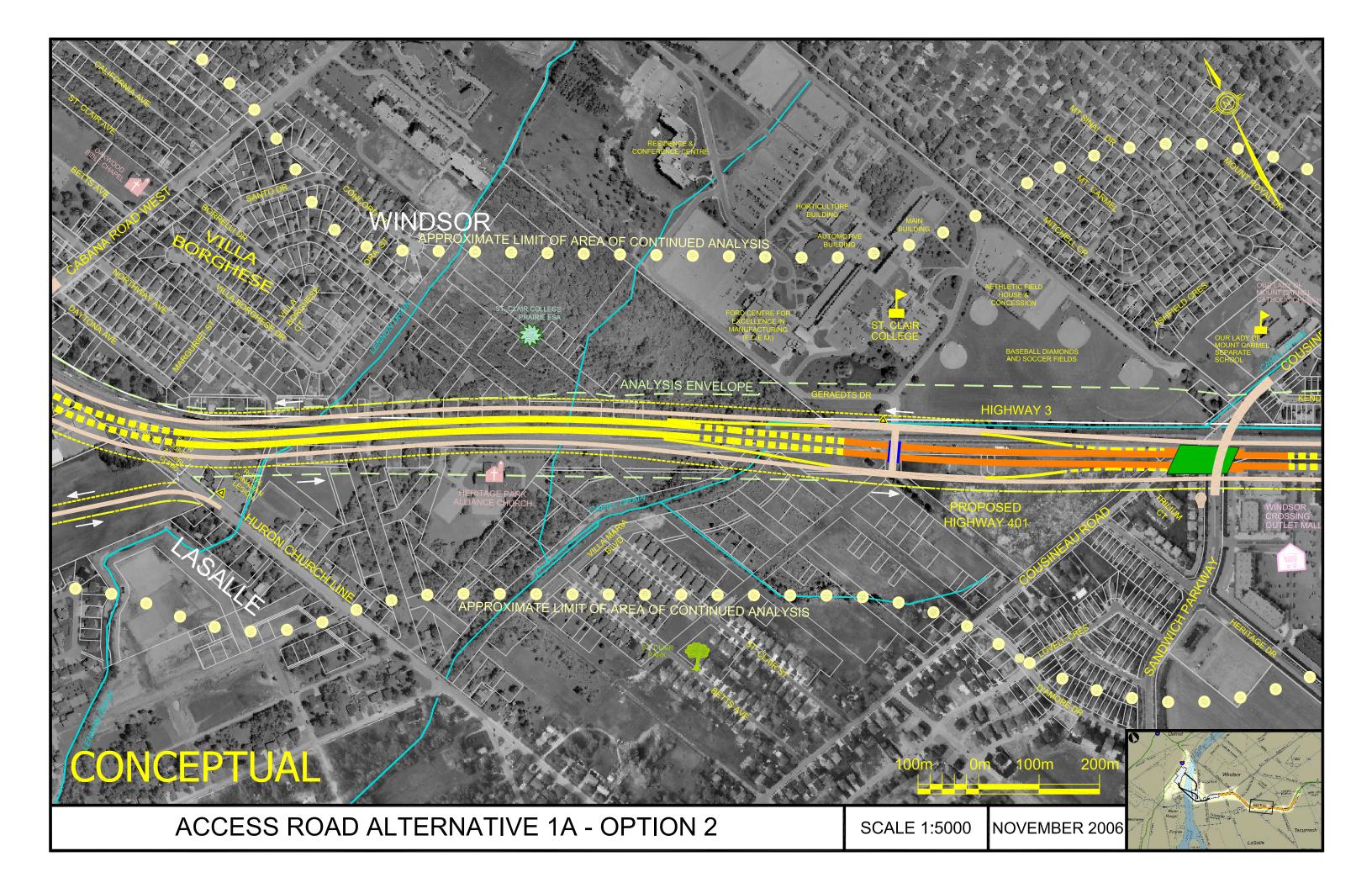
Access Road Alternative 1A

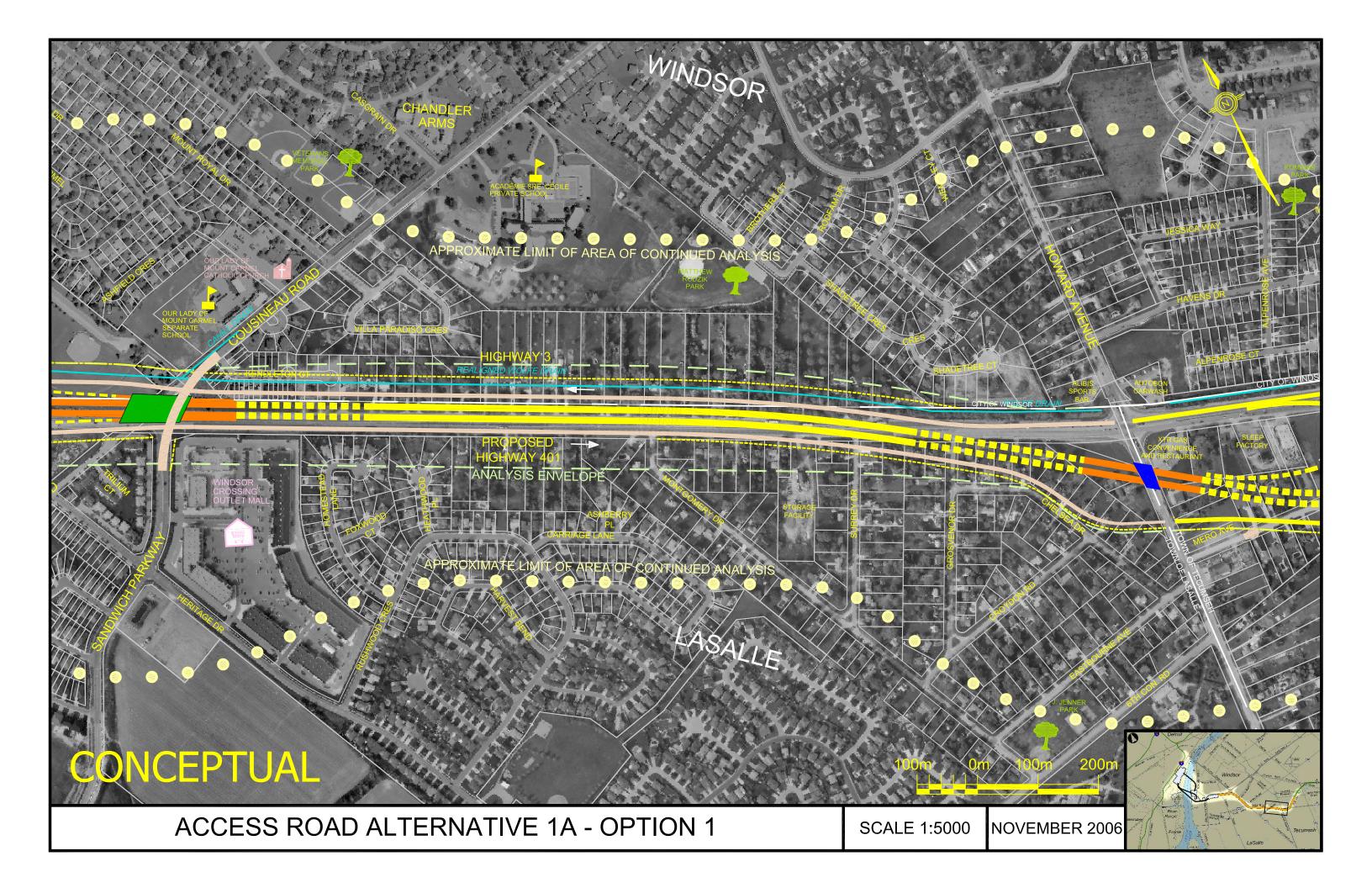


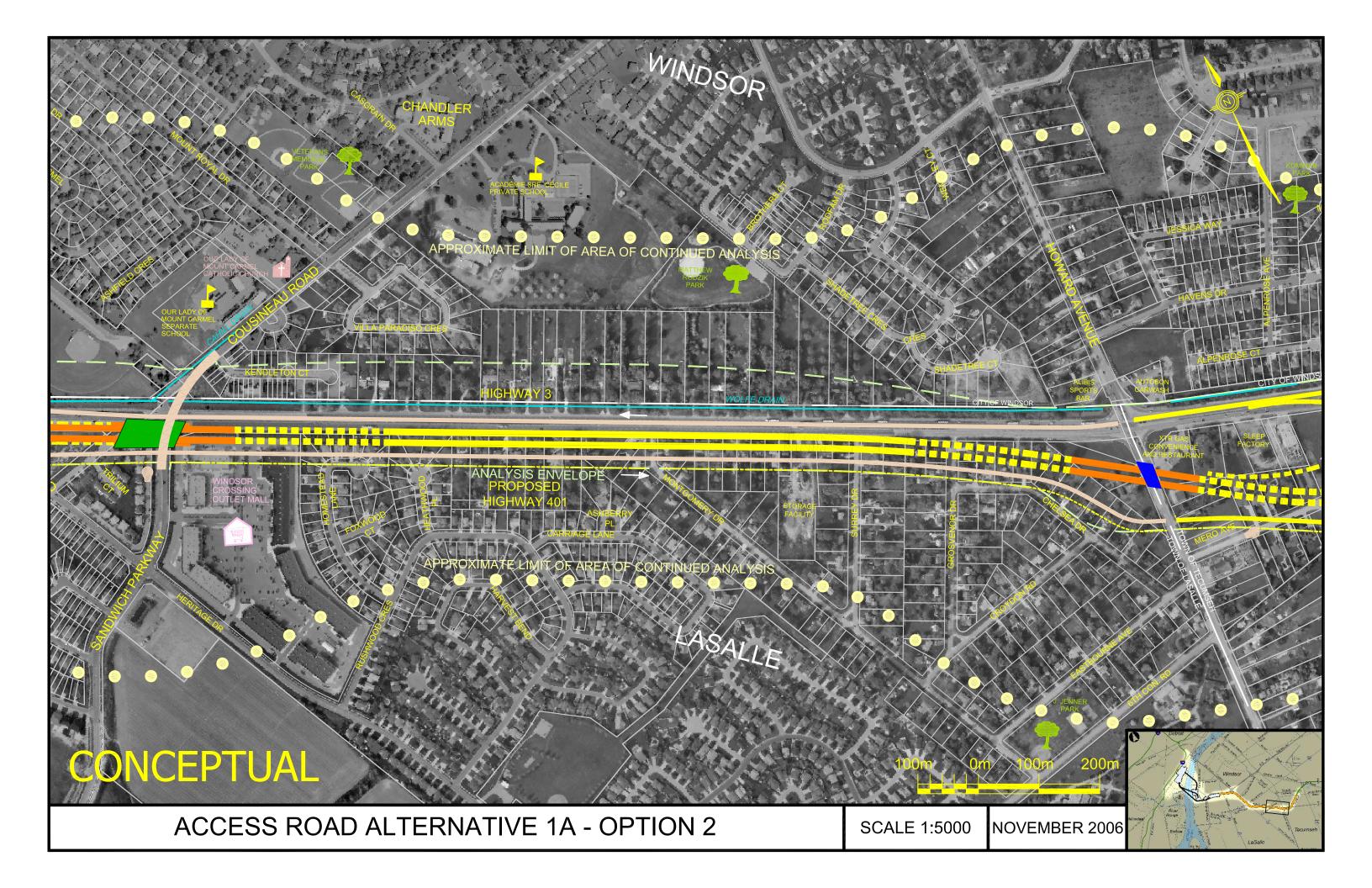


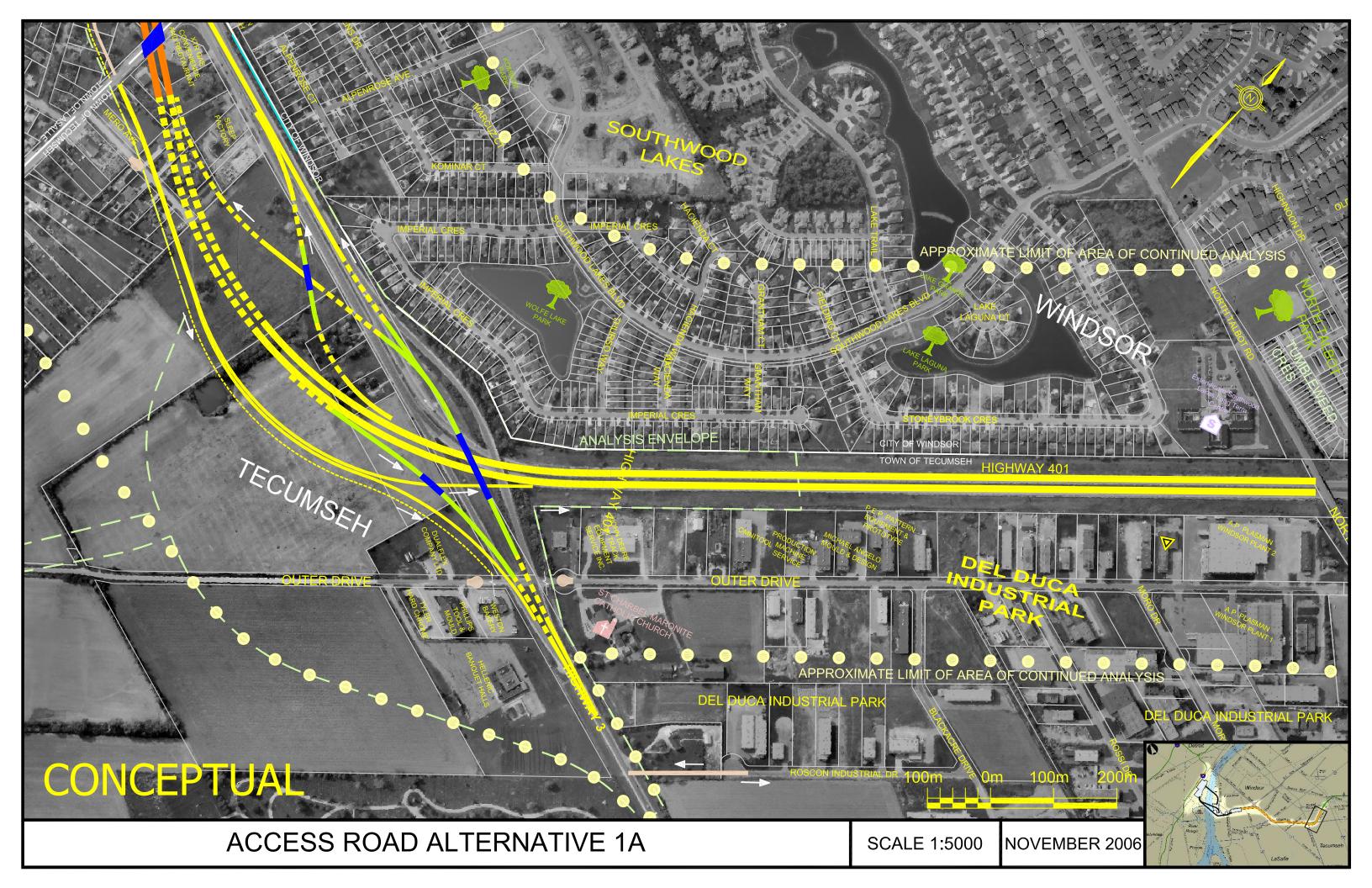




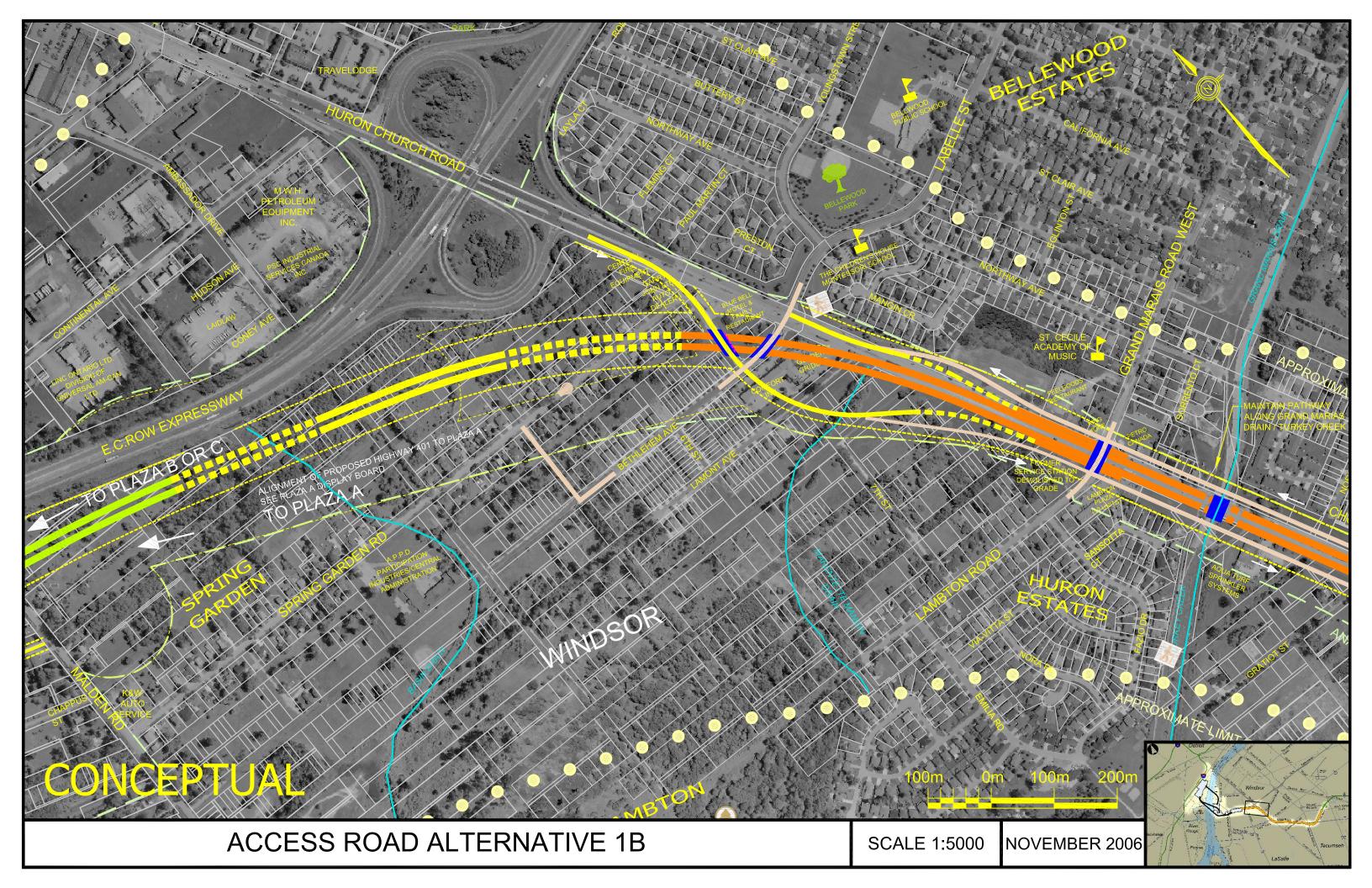


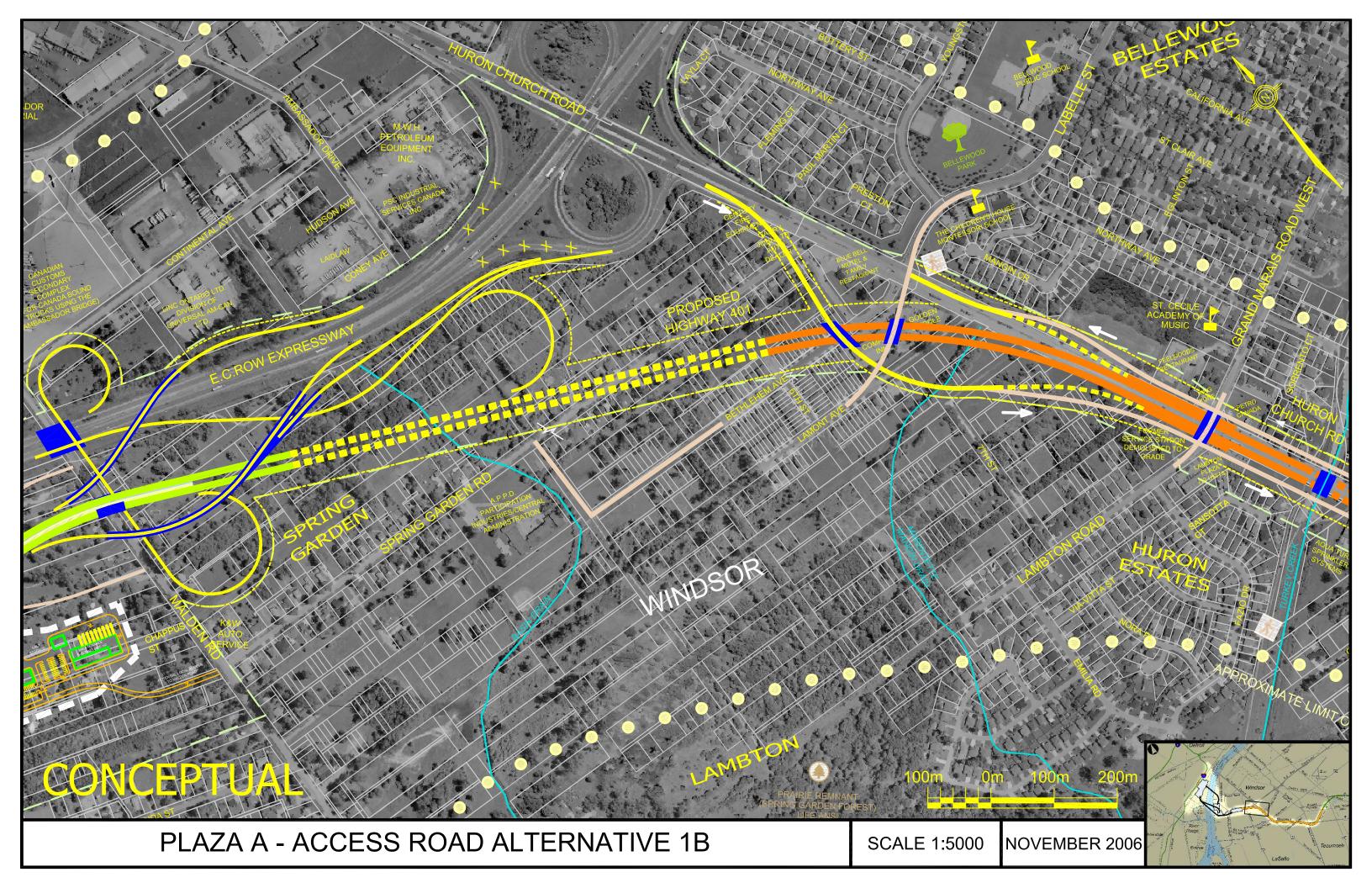


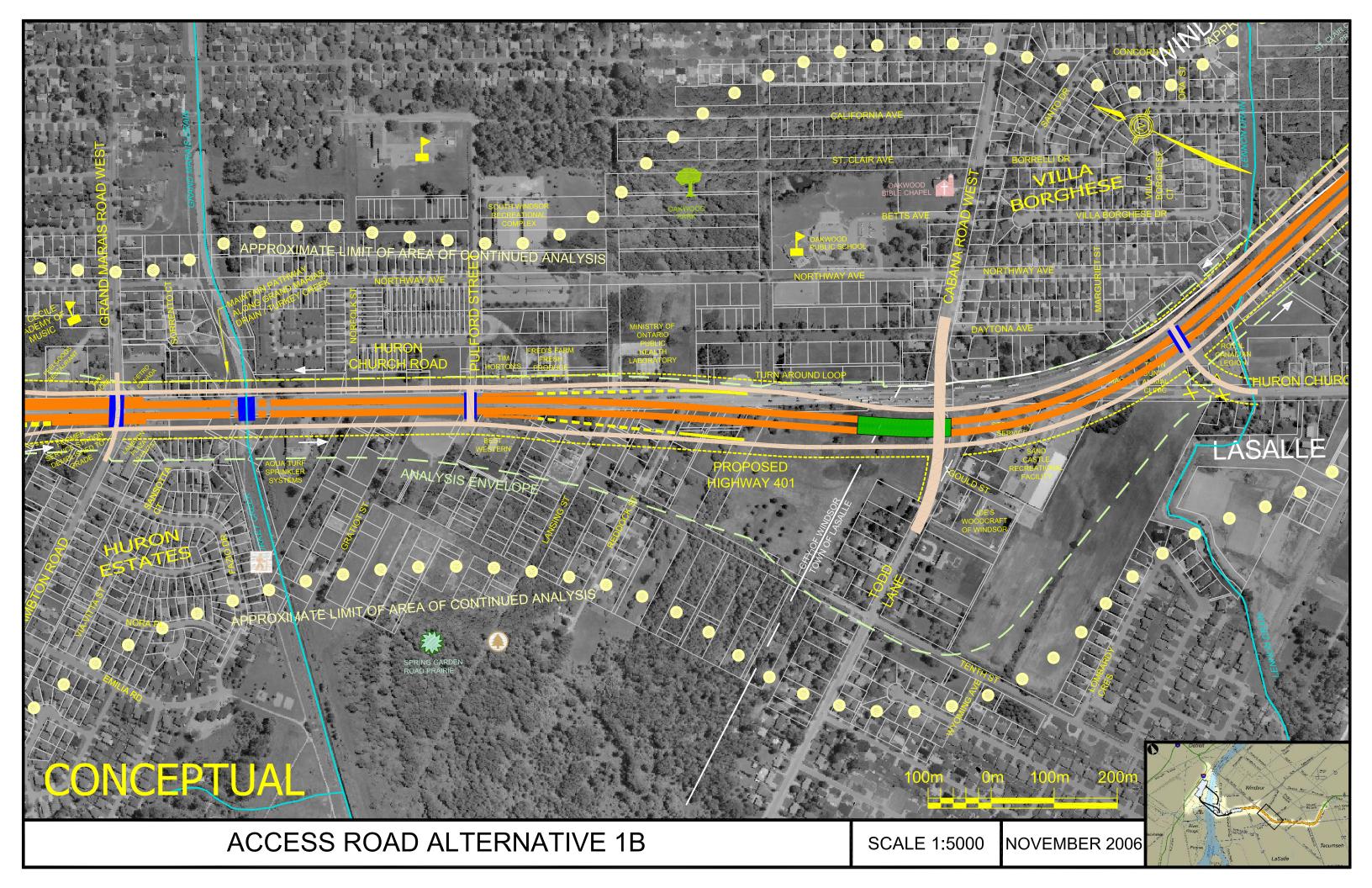


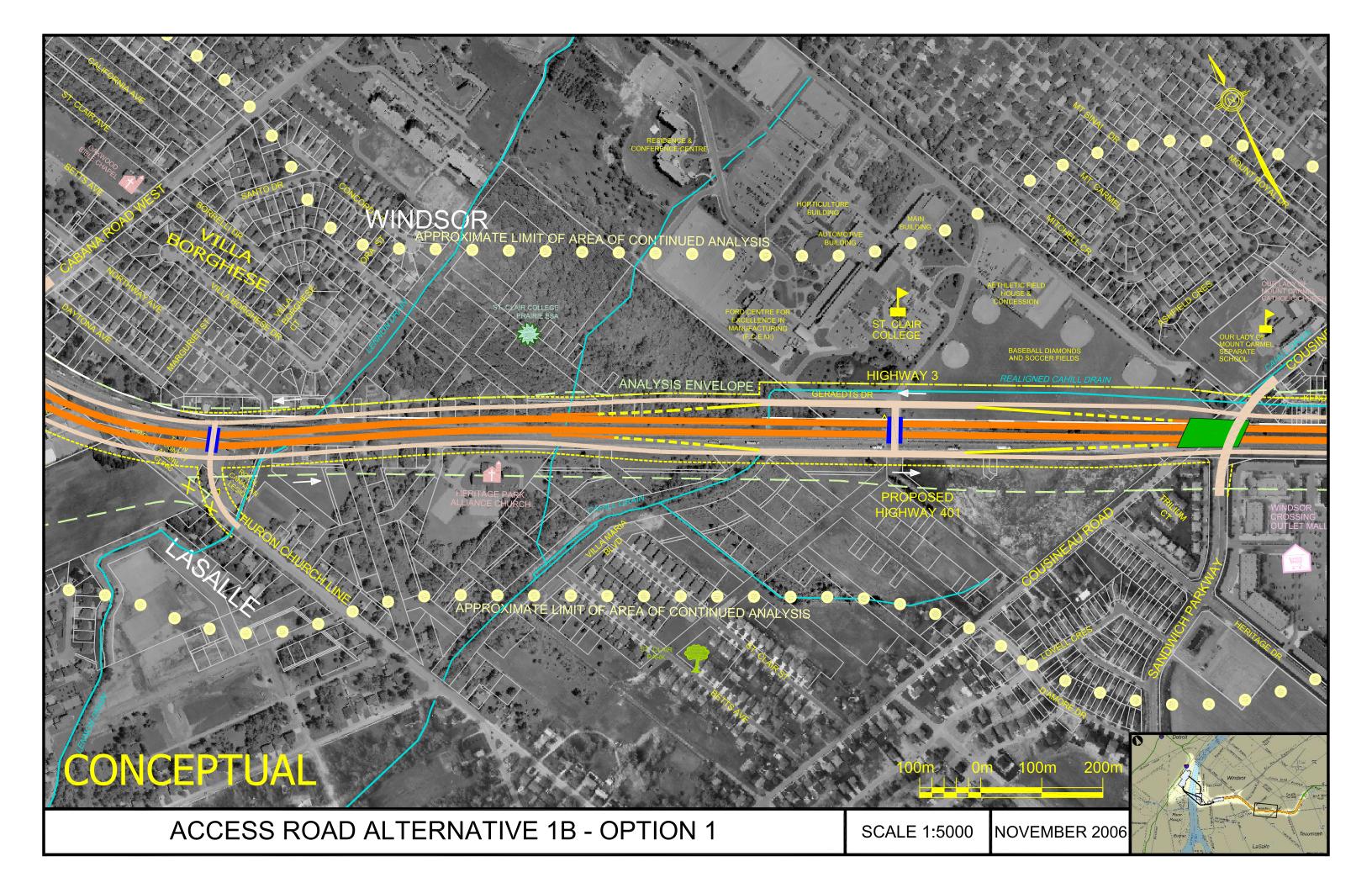


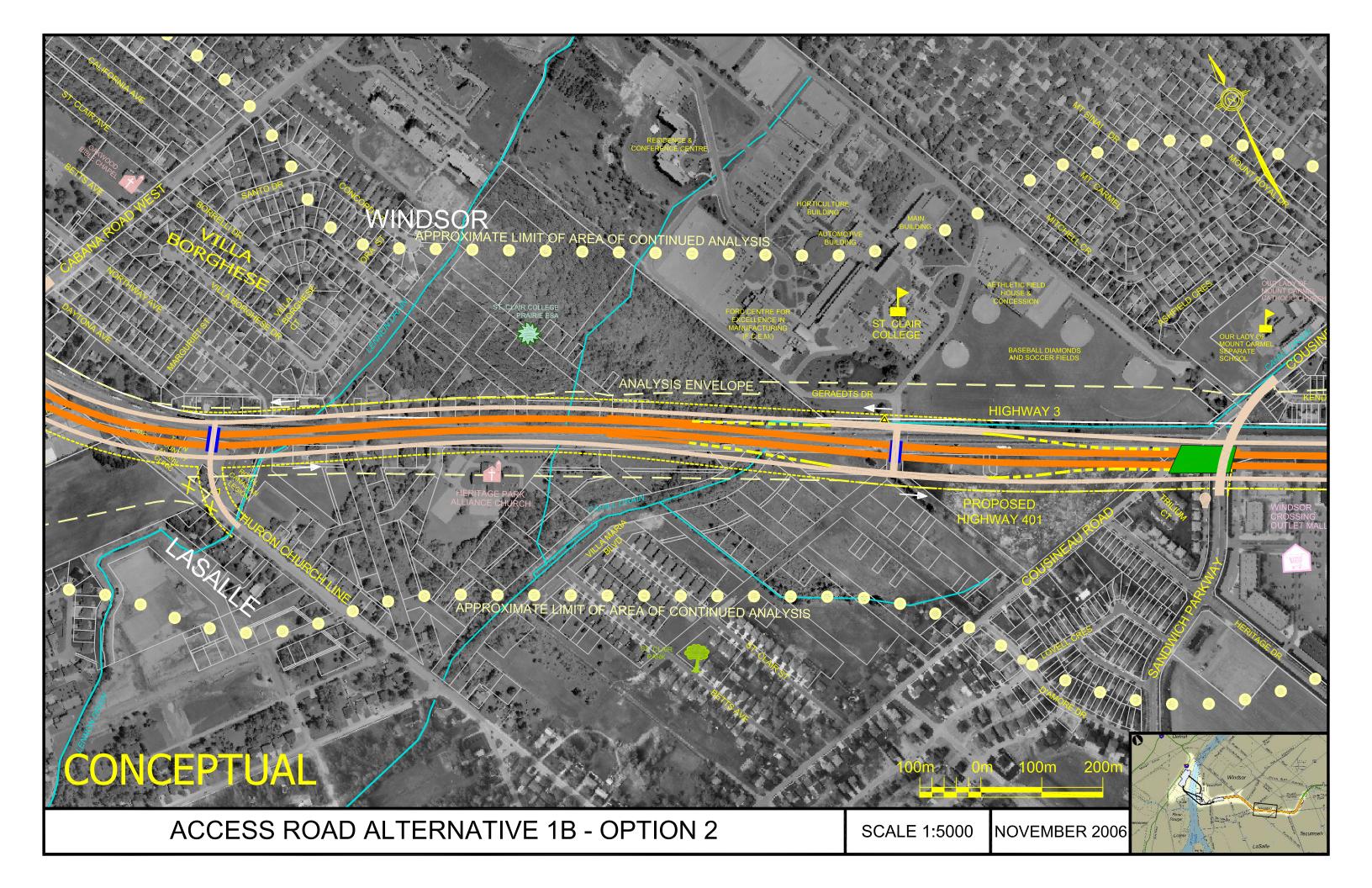
Access Road Alternative 1B

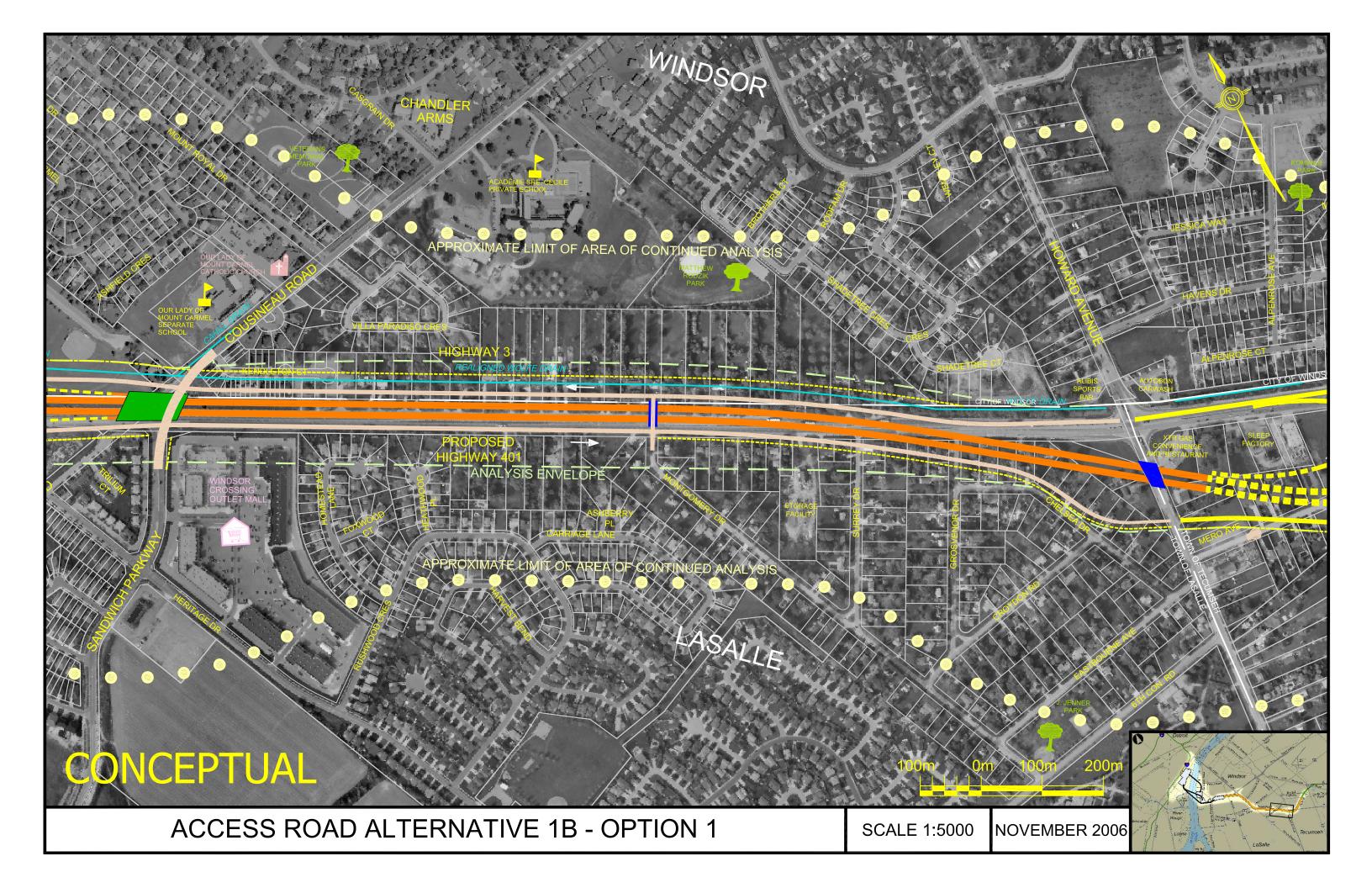


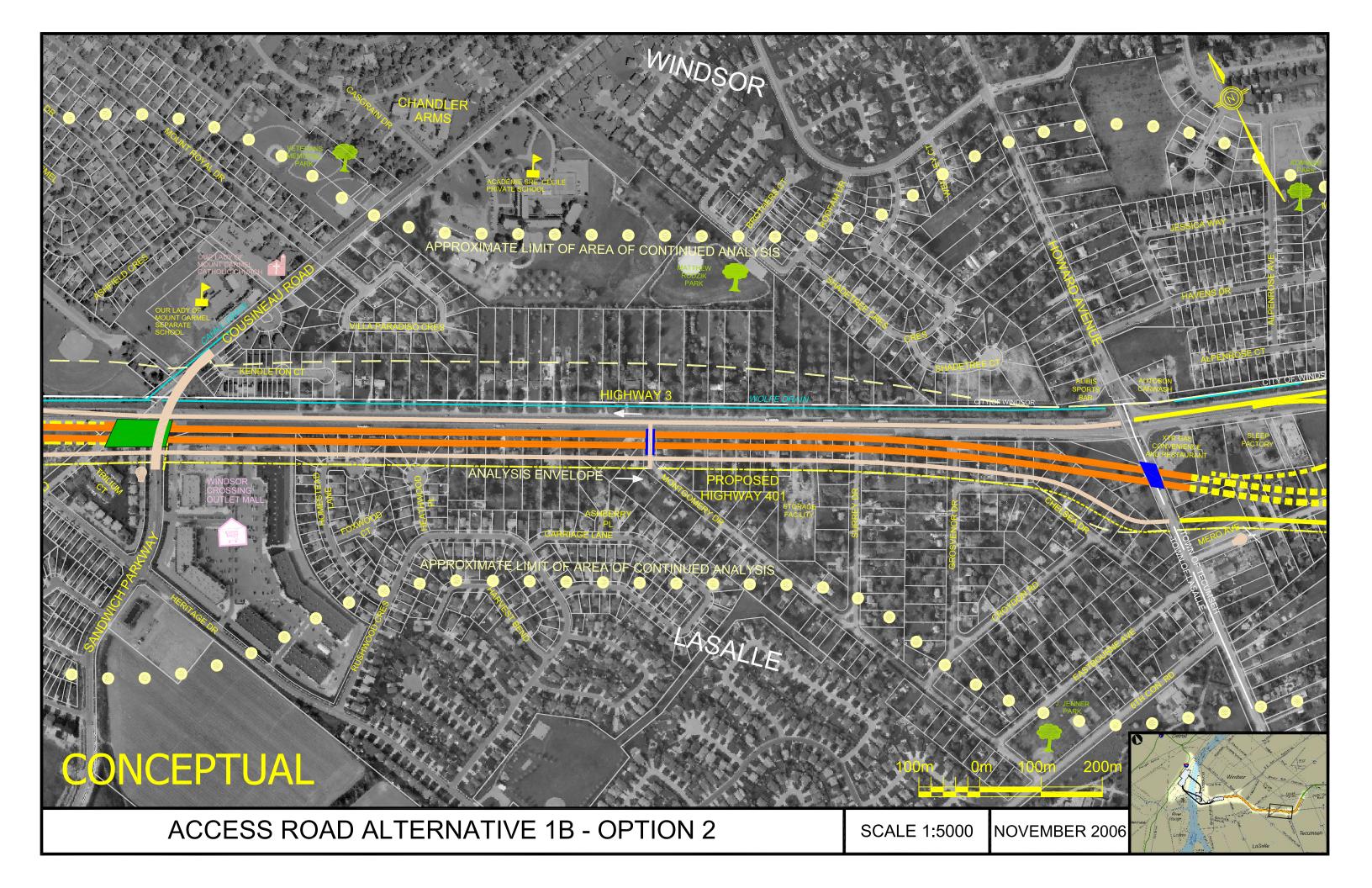


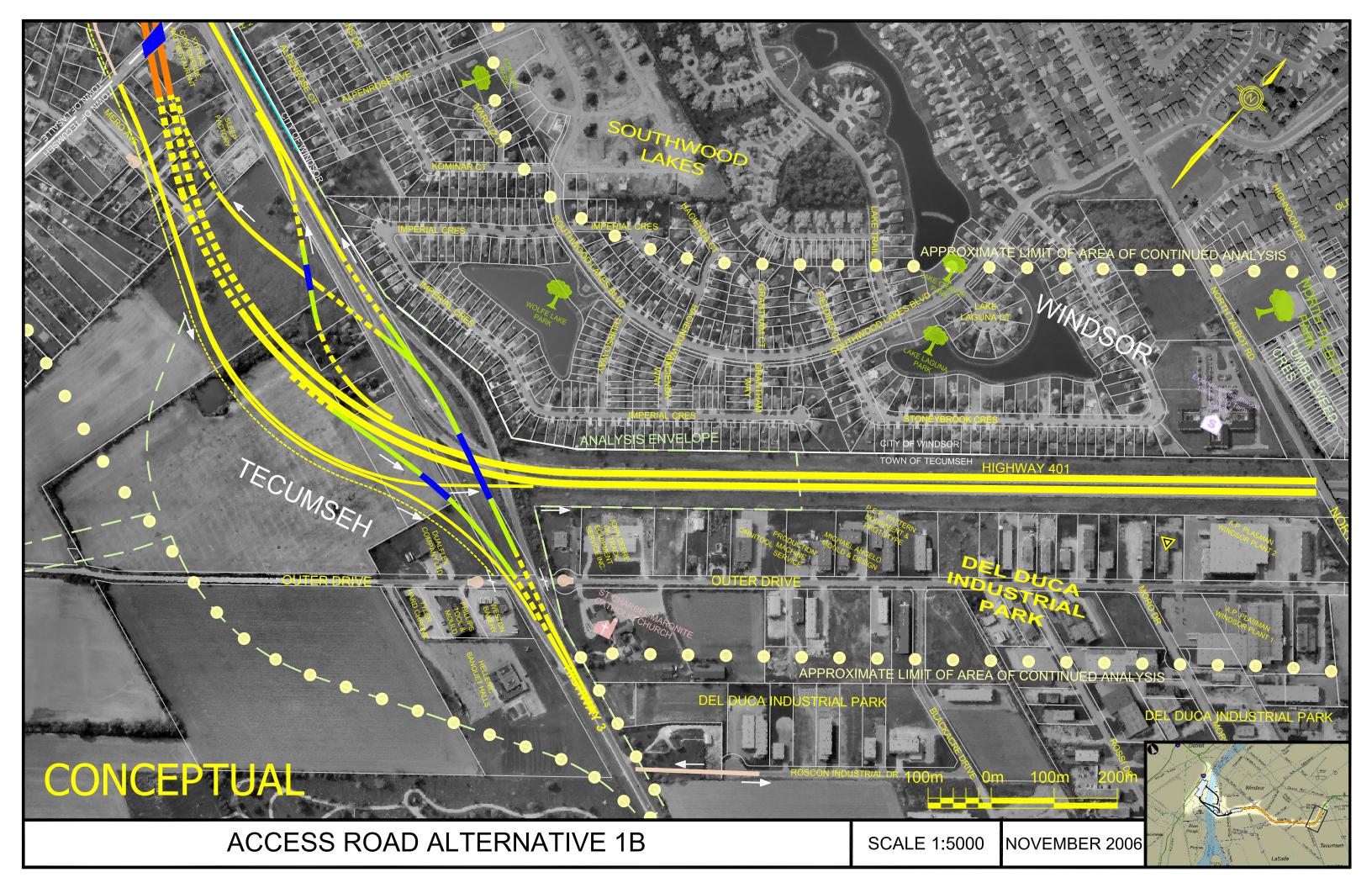




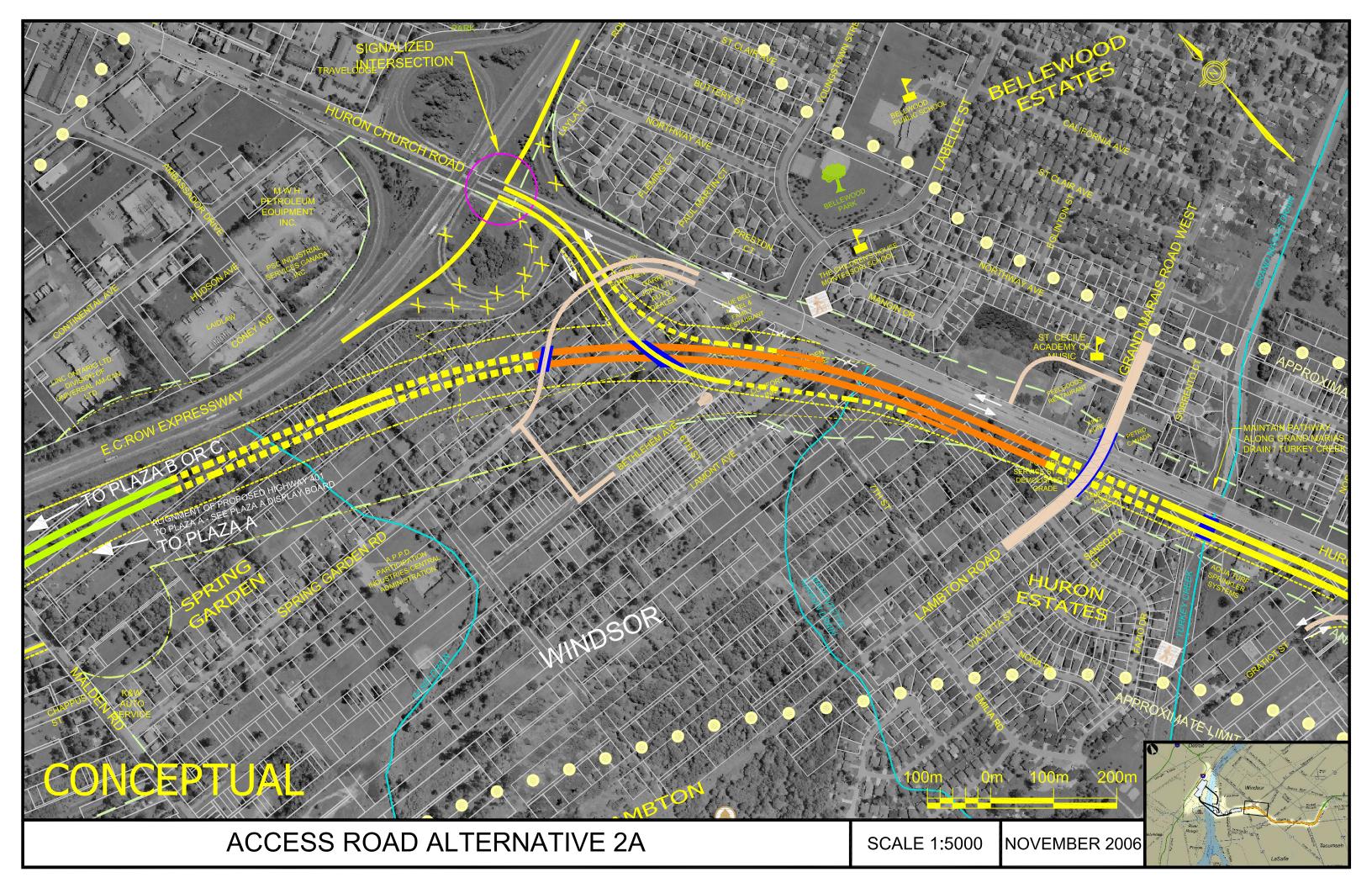


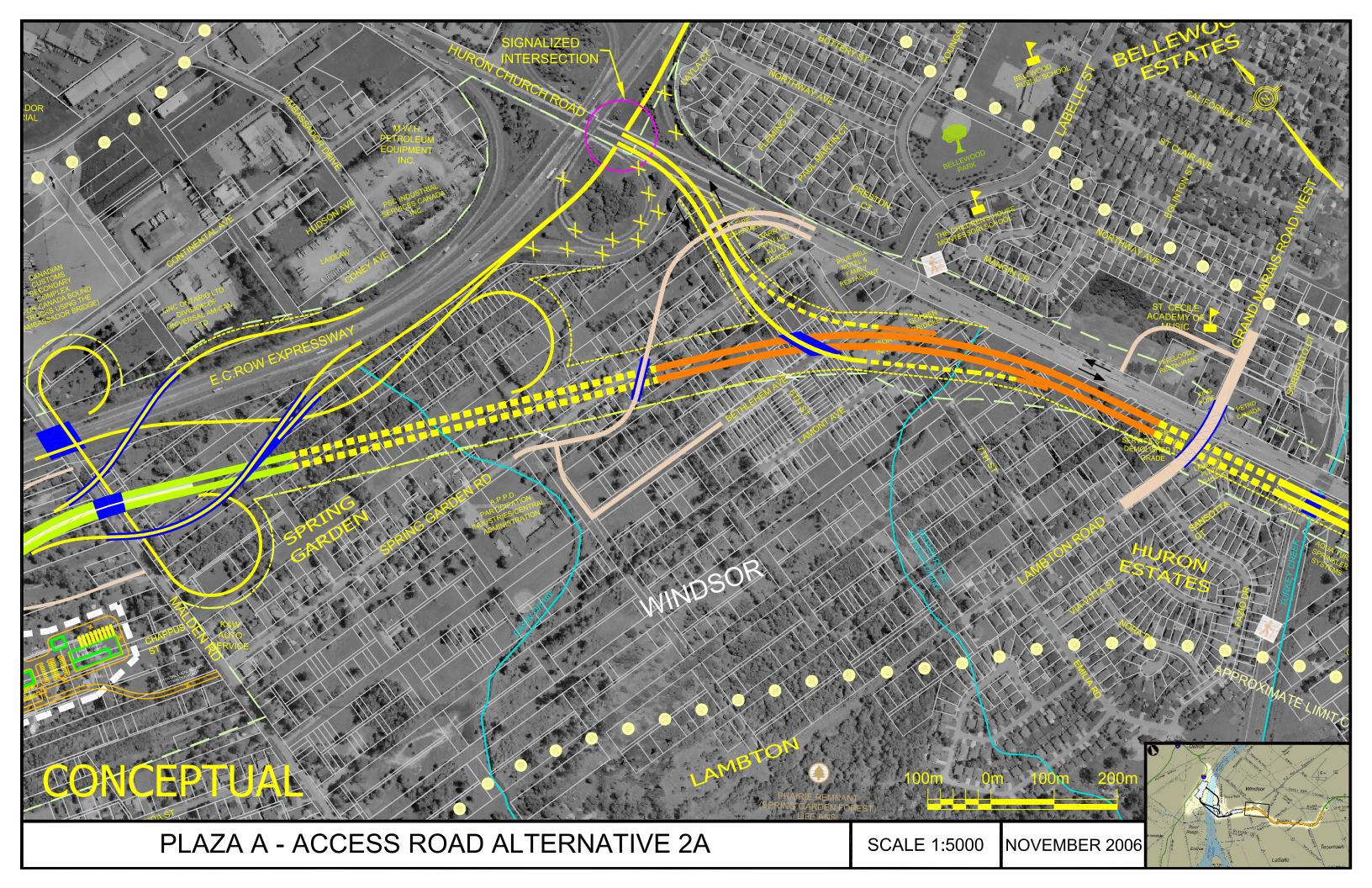


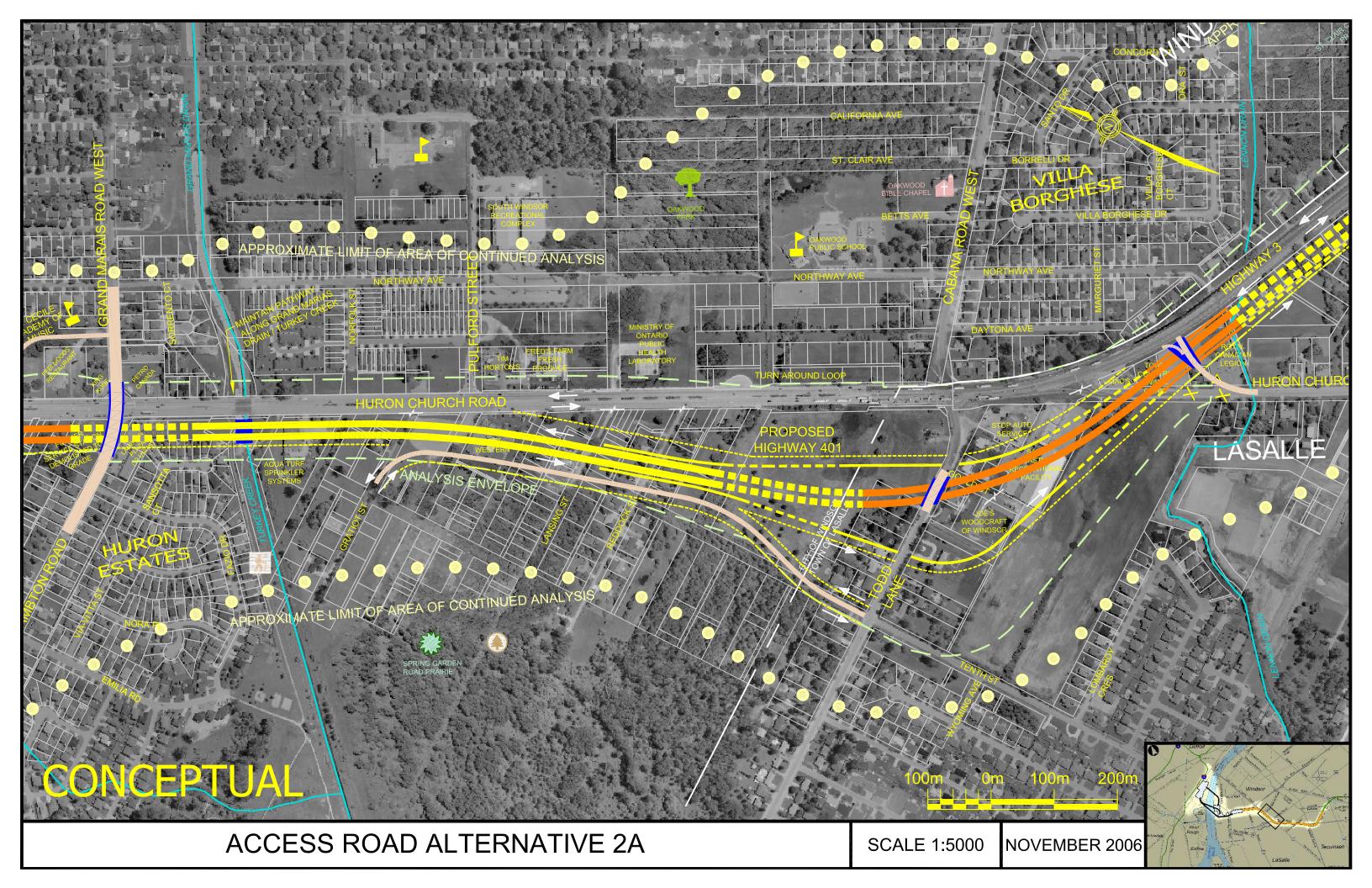


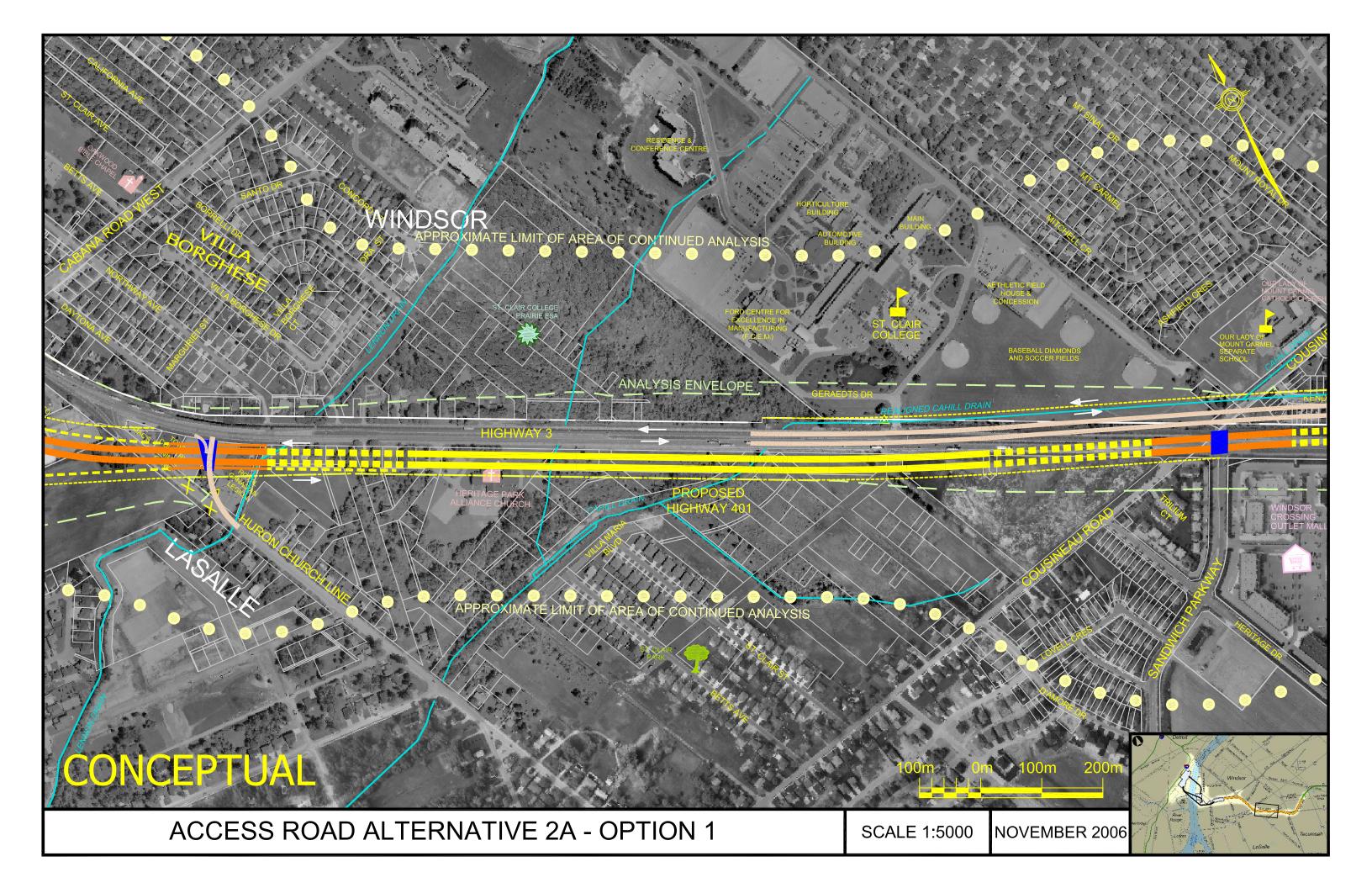


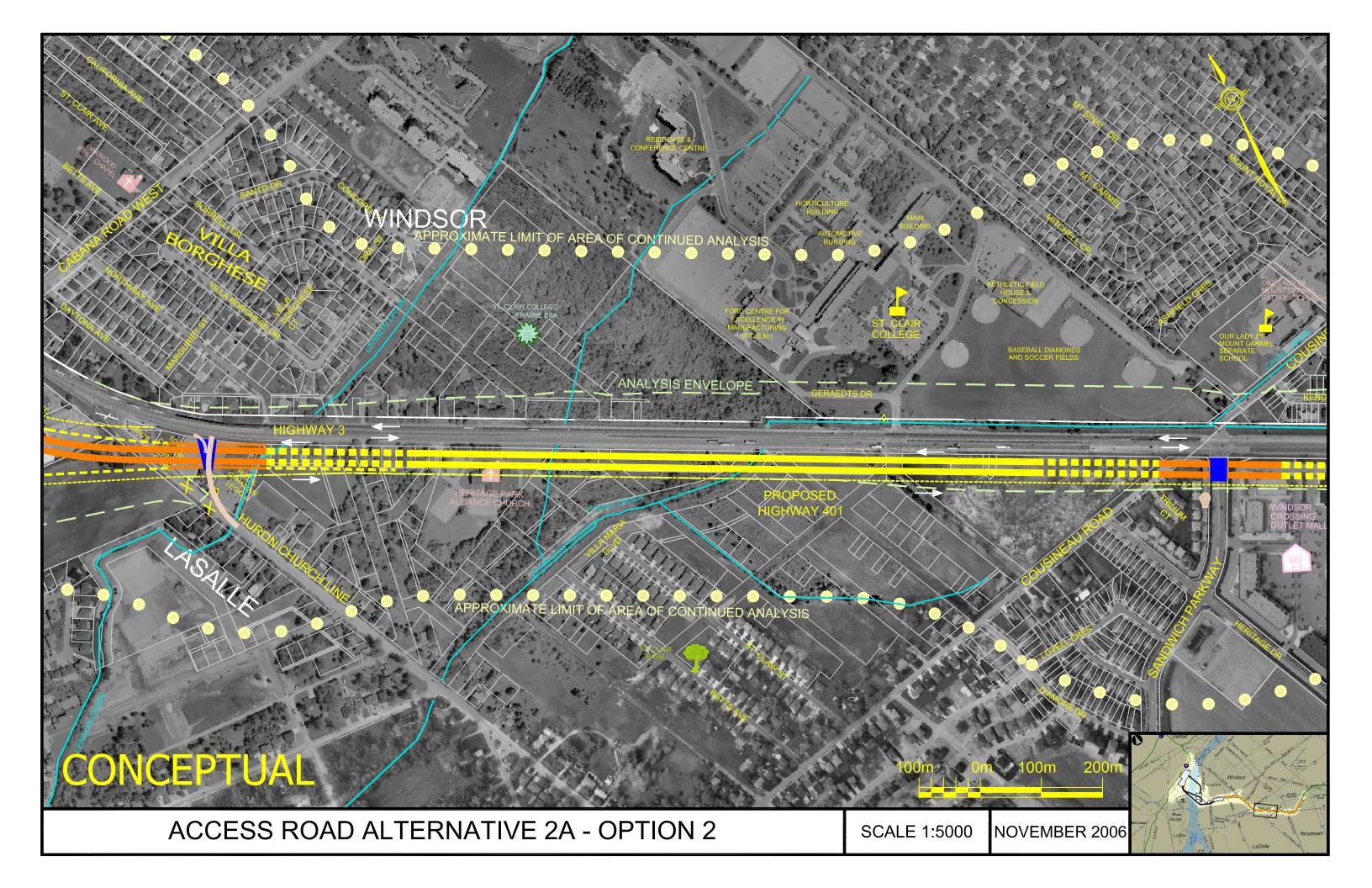
Access Road Alternative 2A

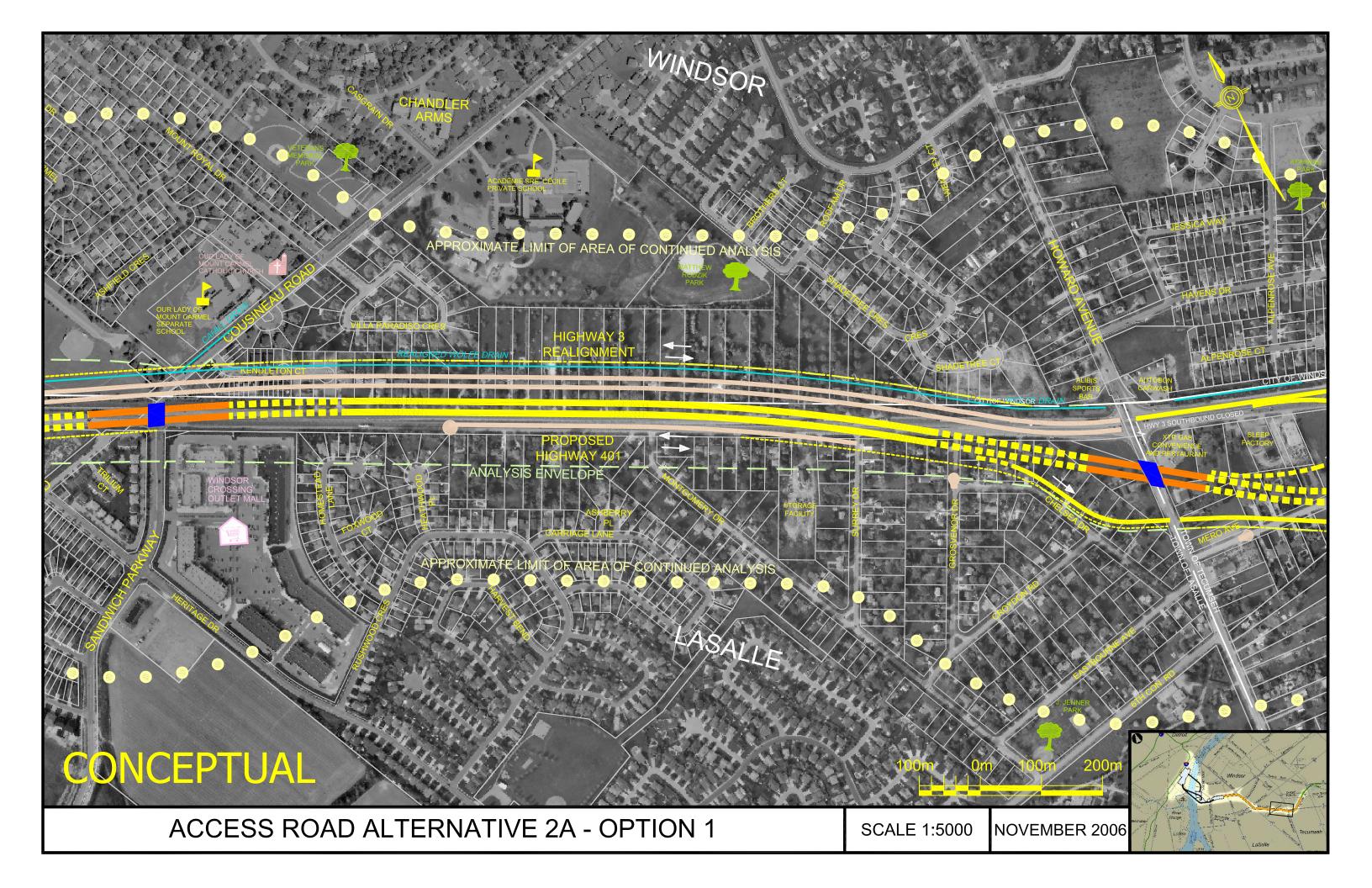


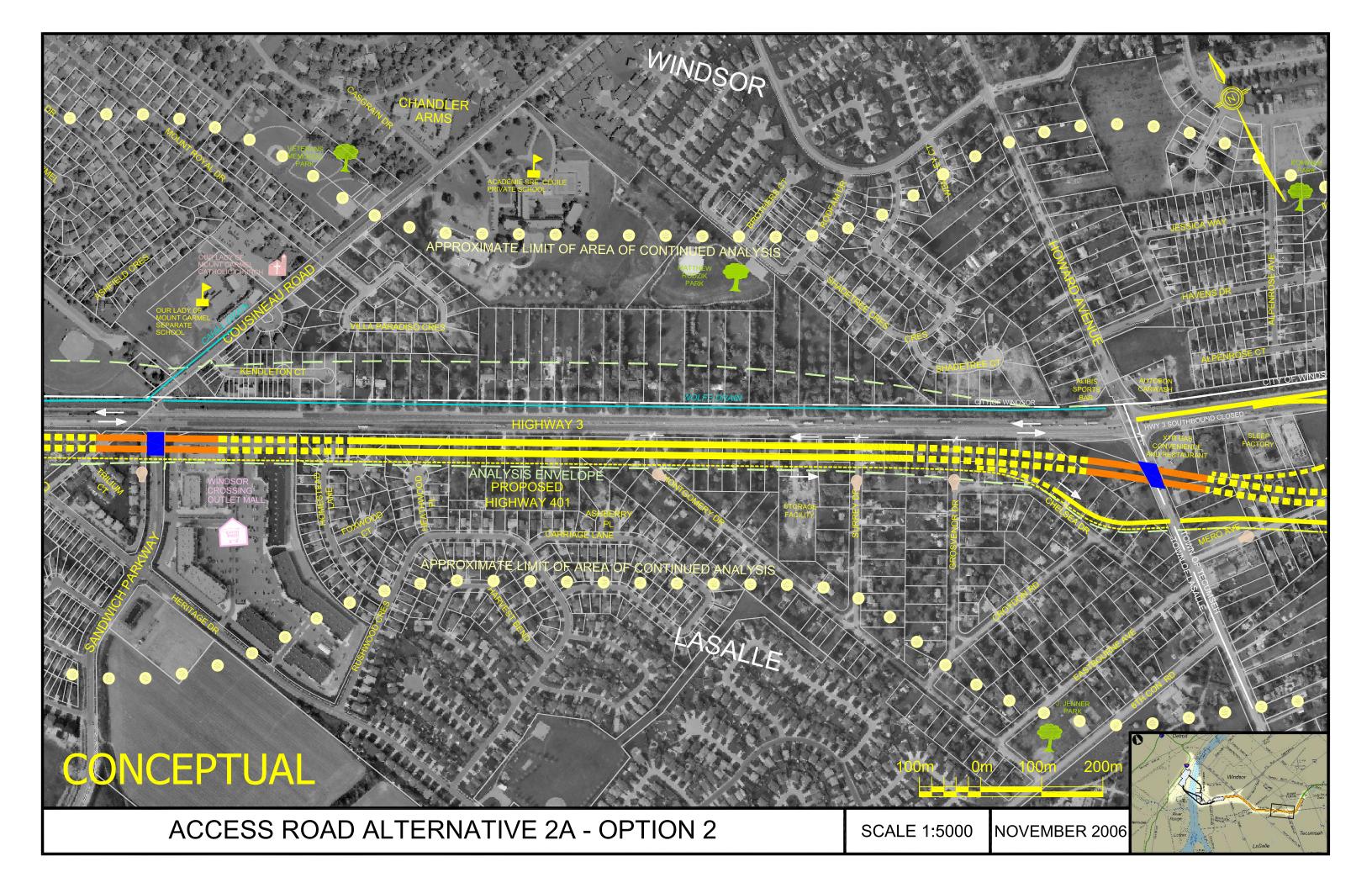


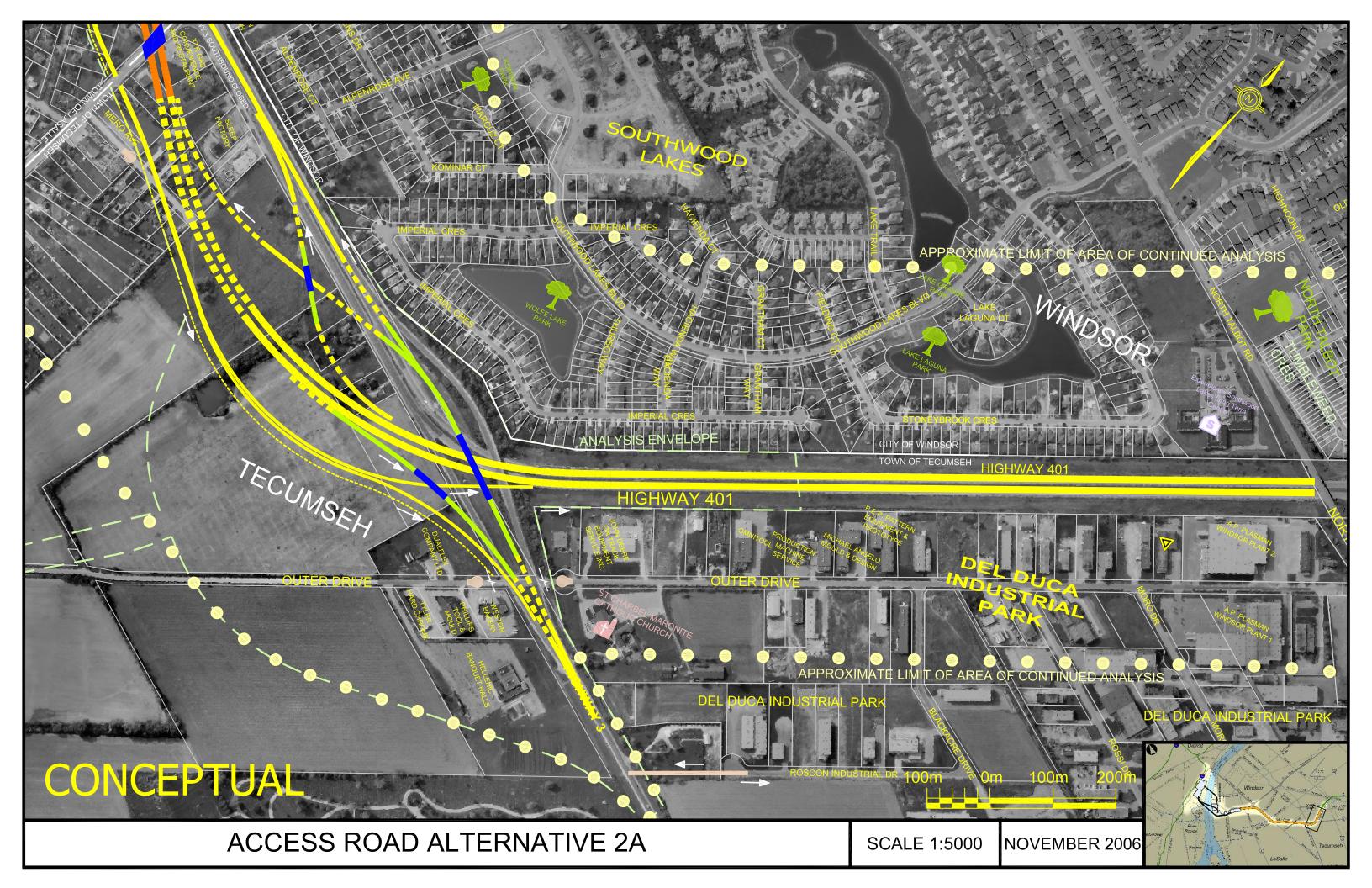




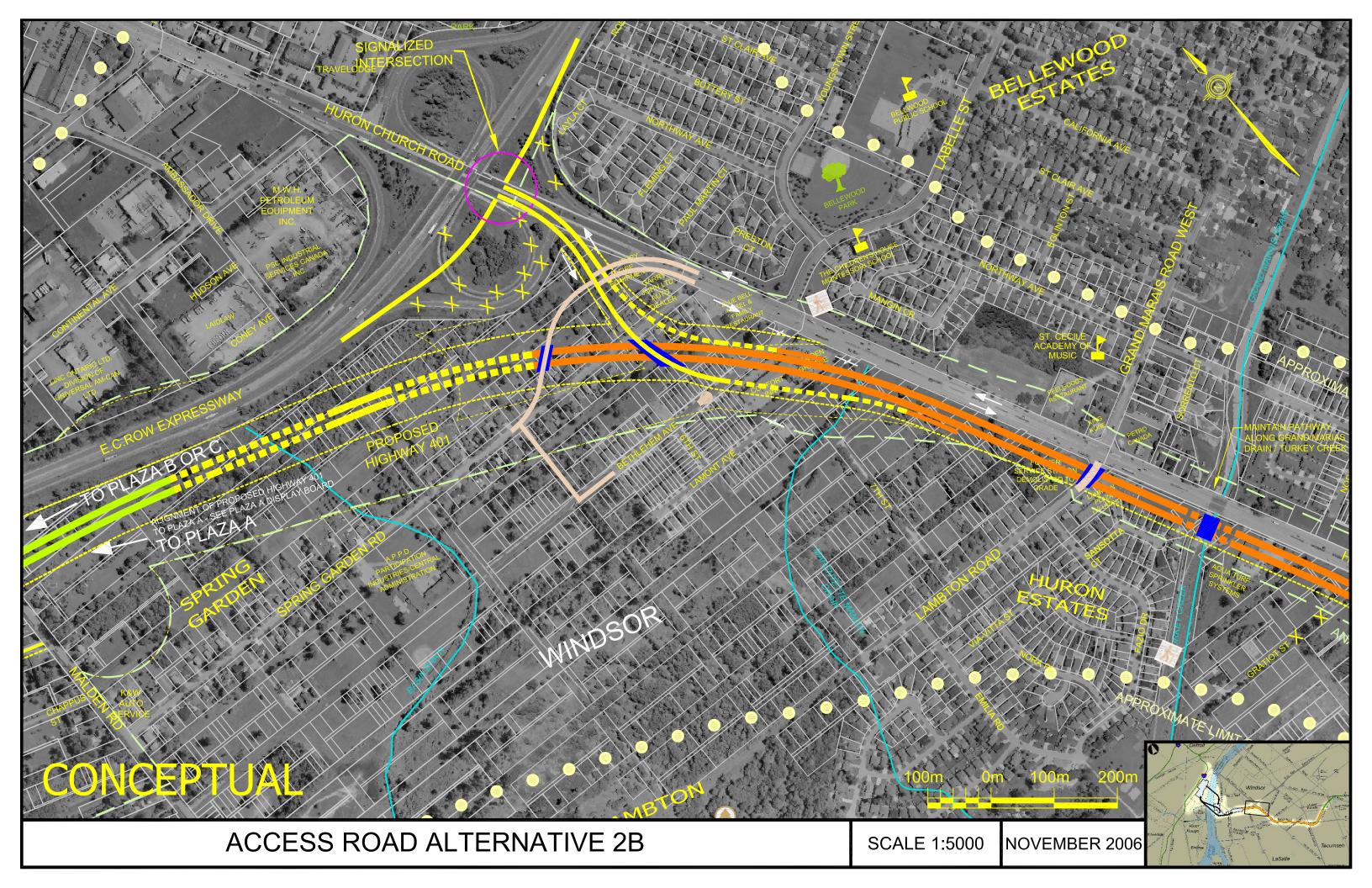


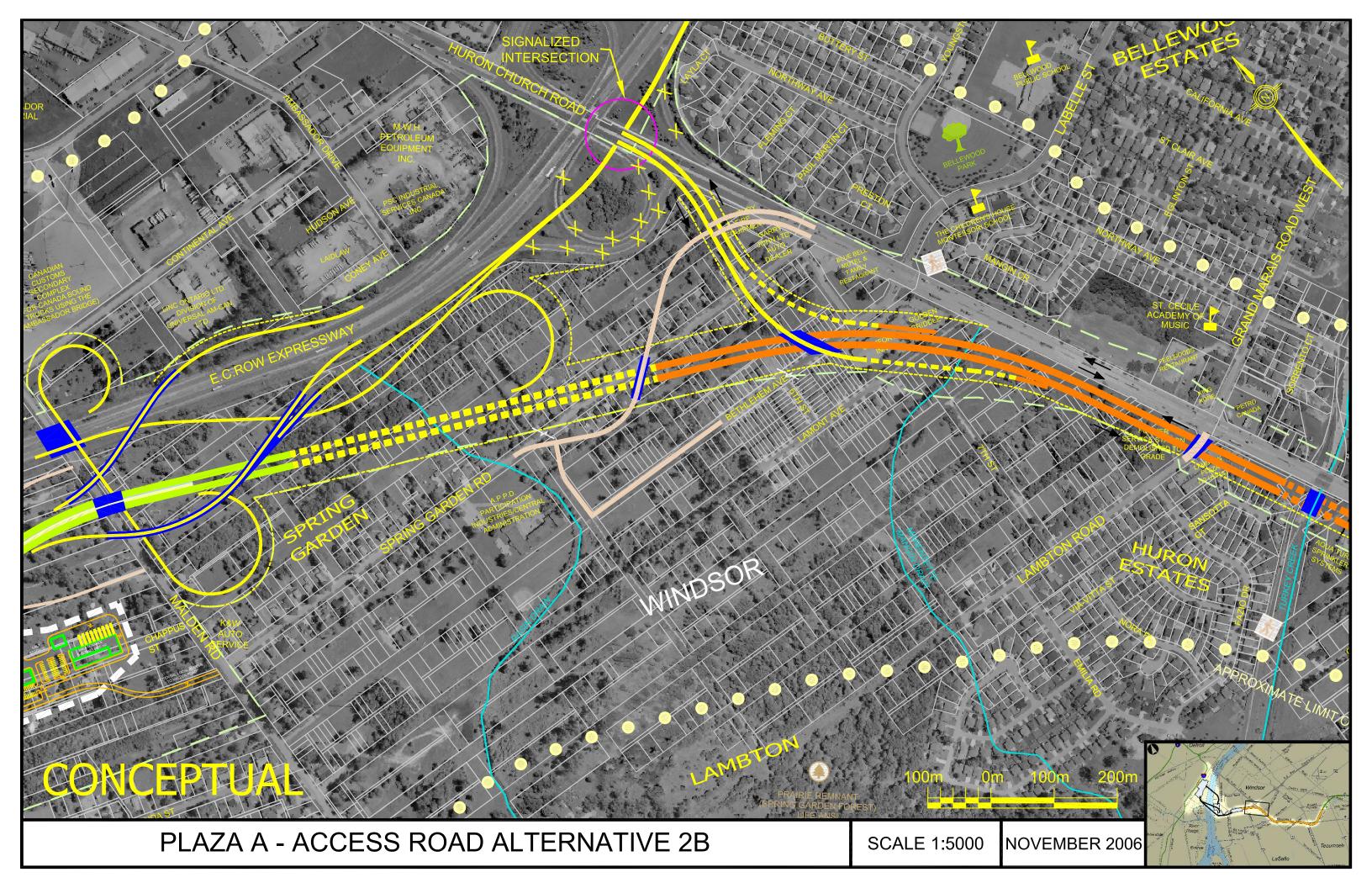


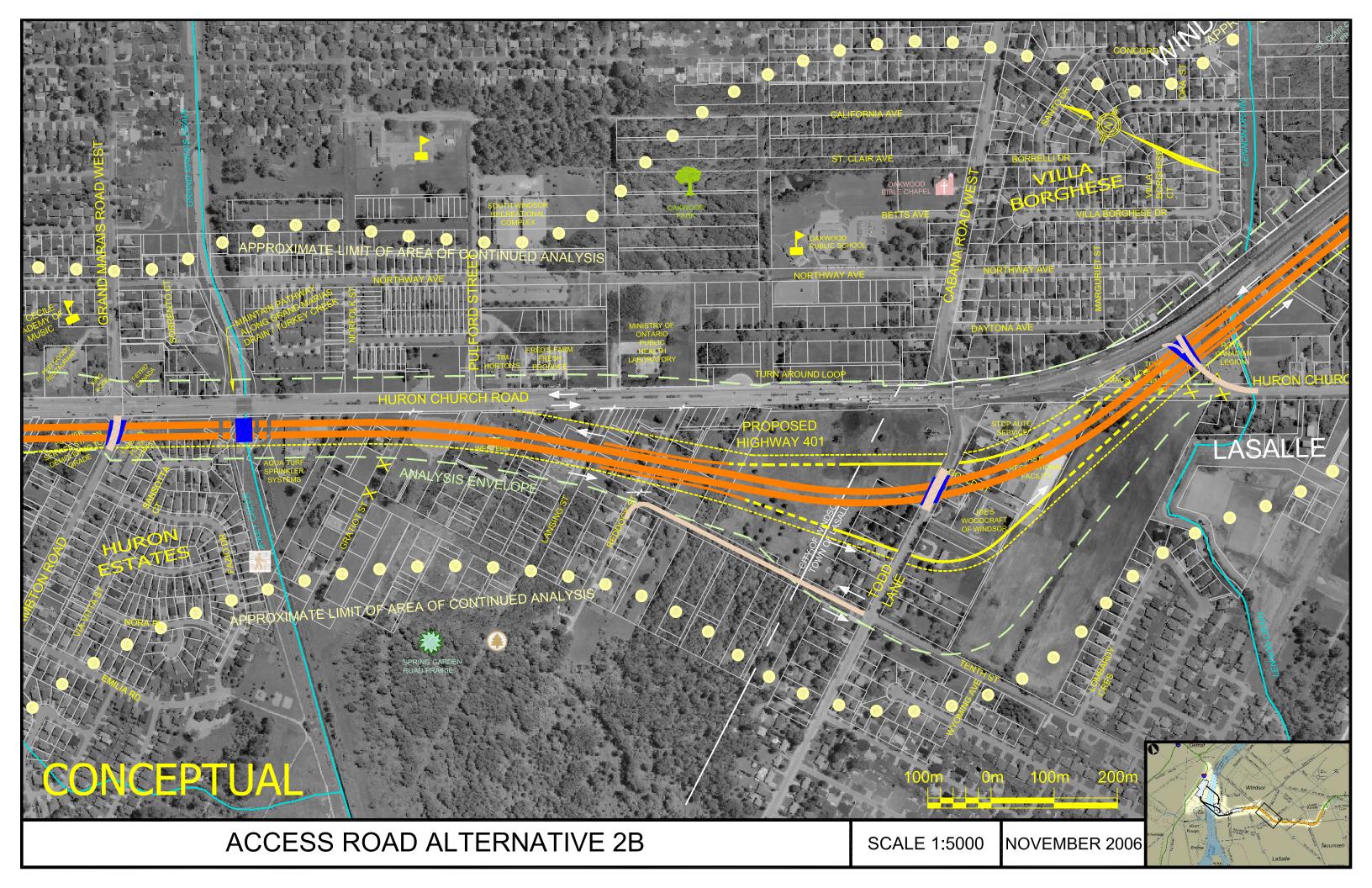


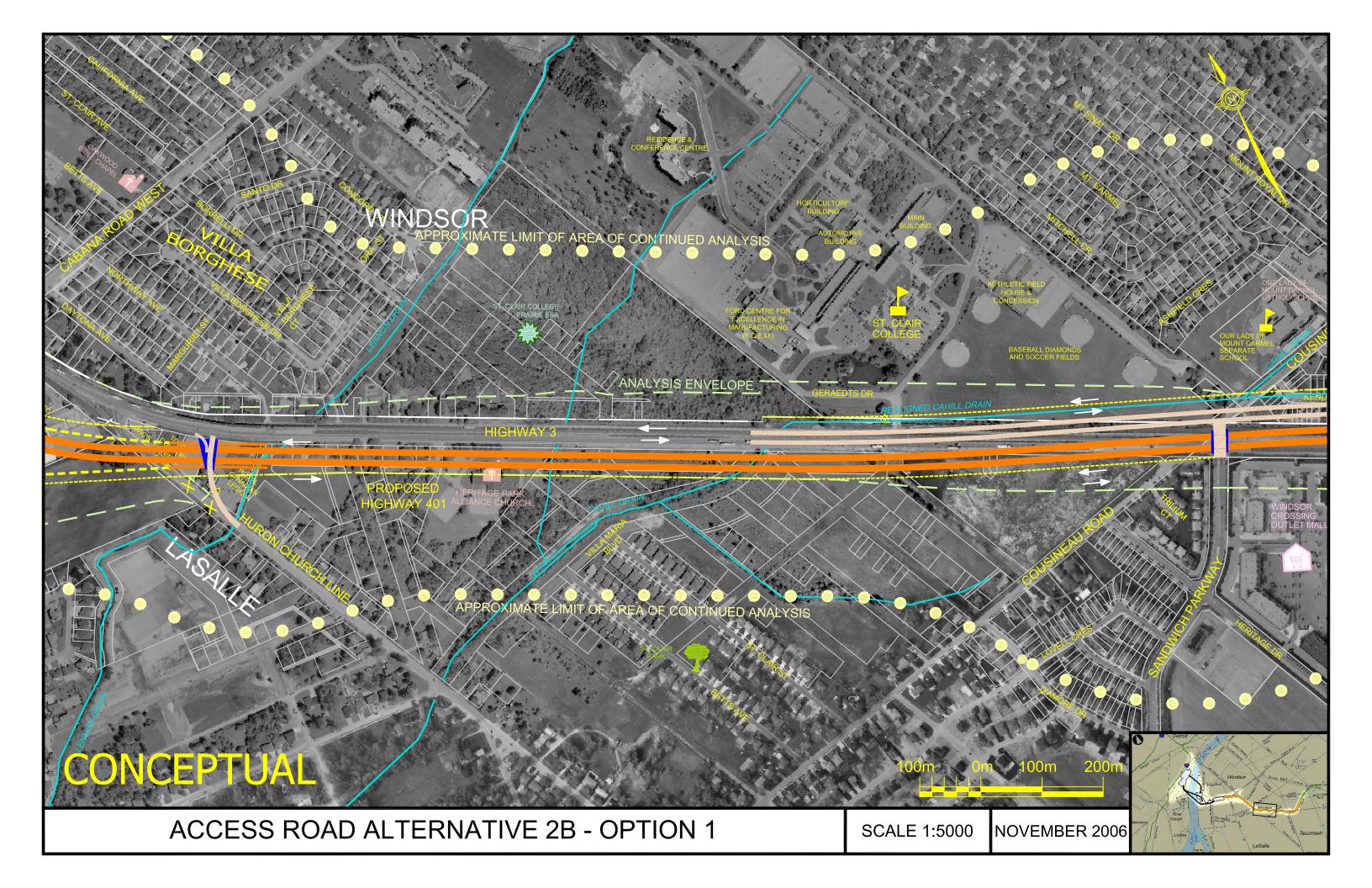


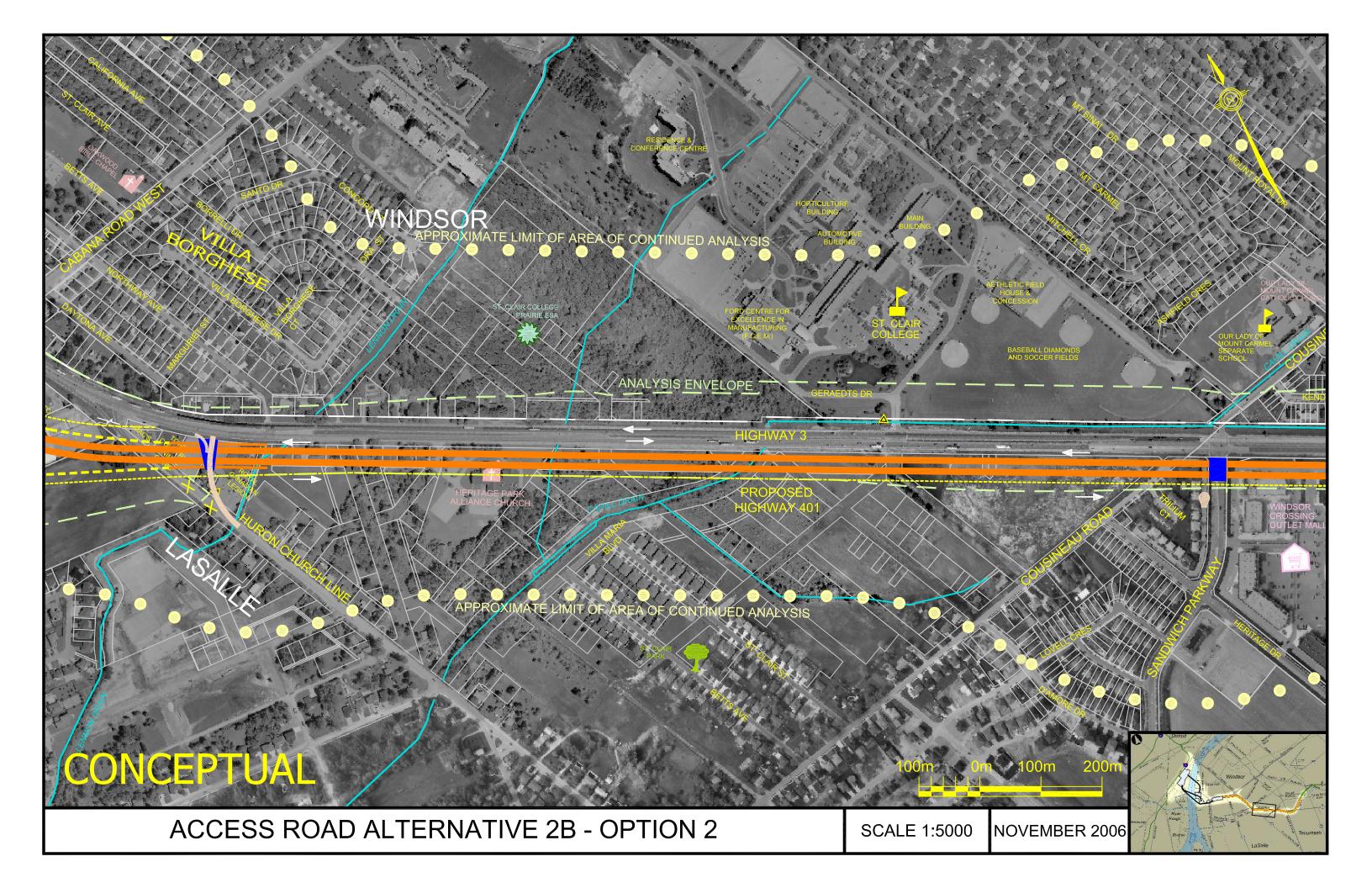
Access Road Alternative 2B

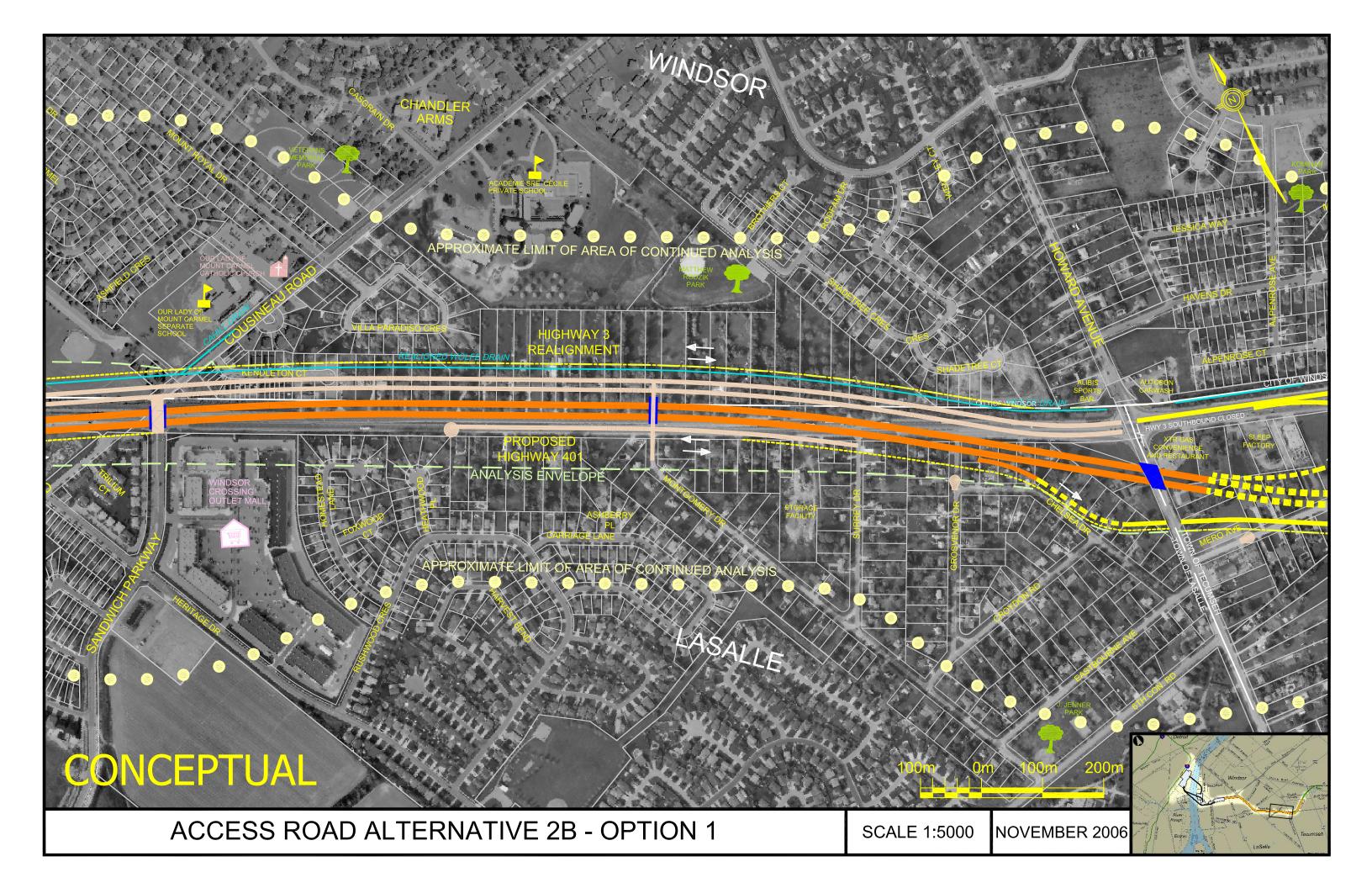


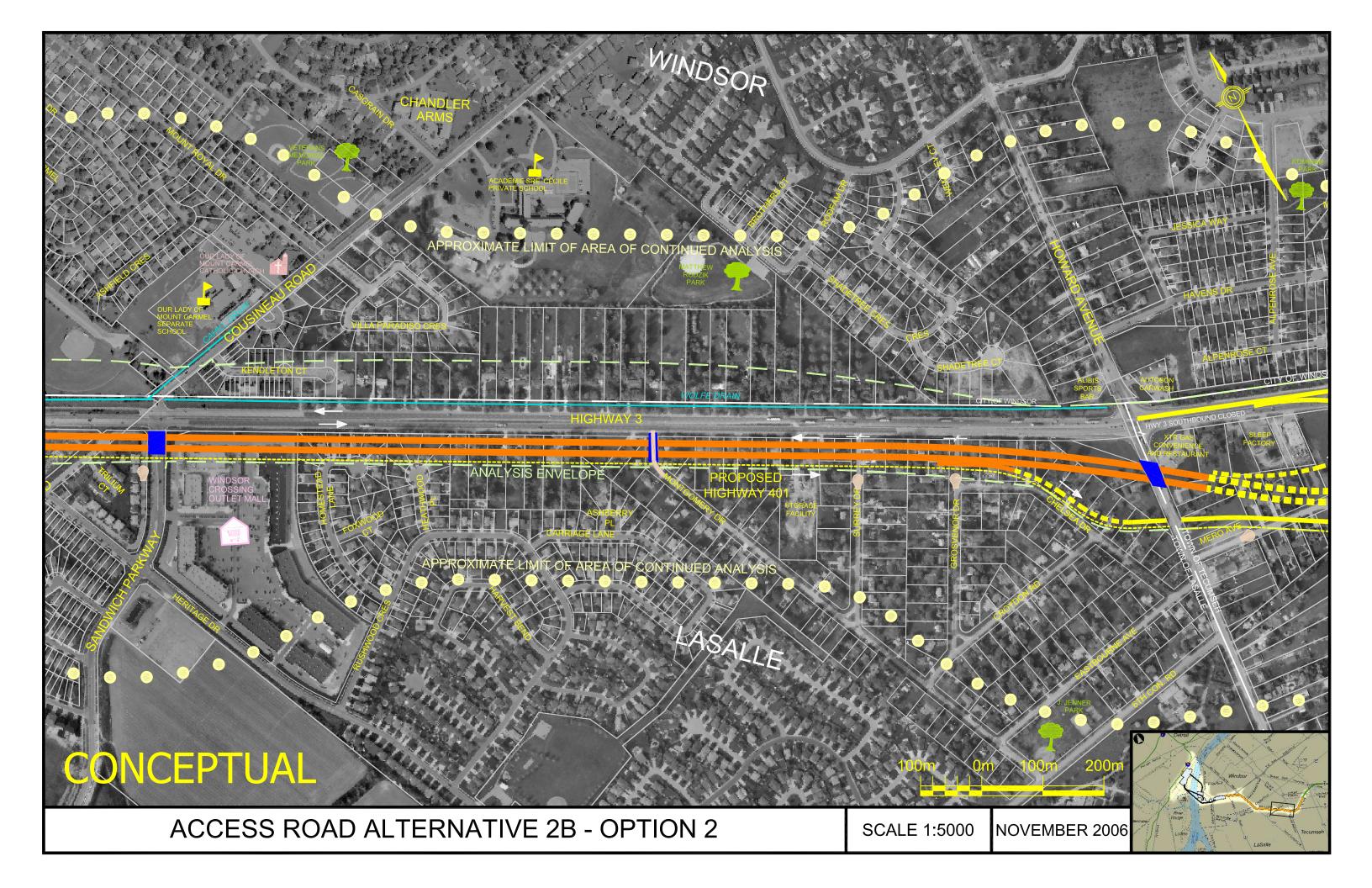


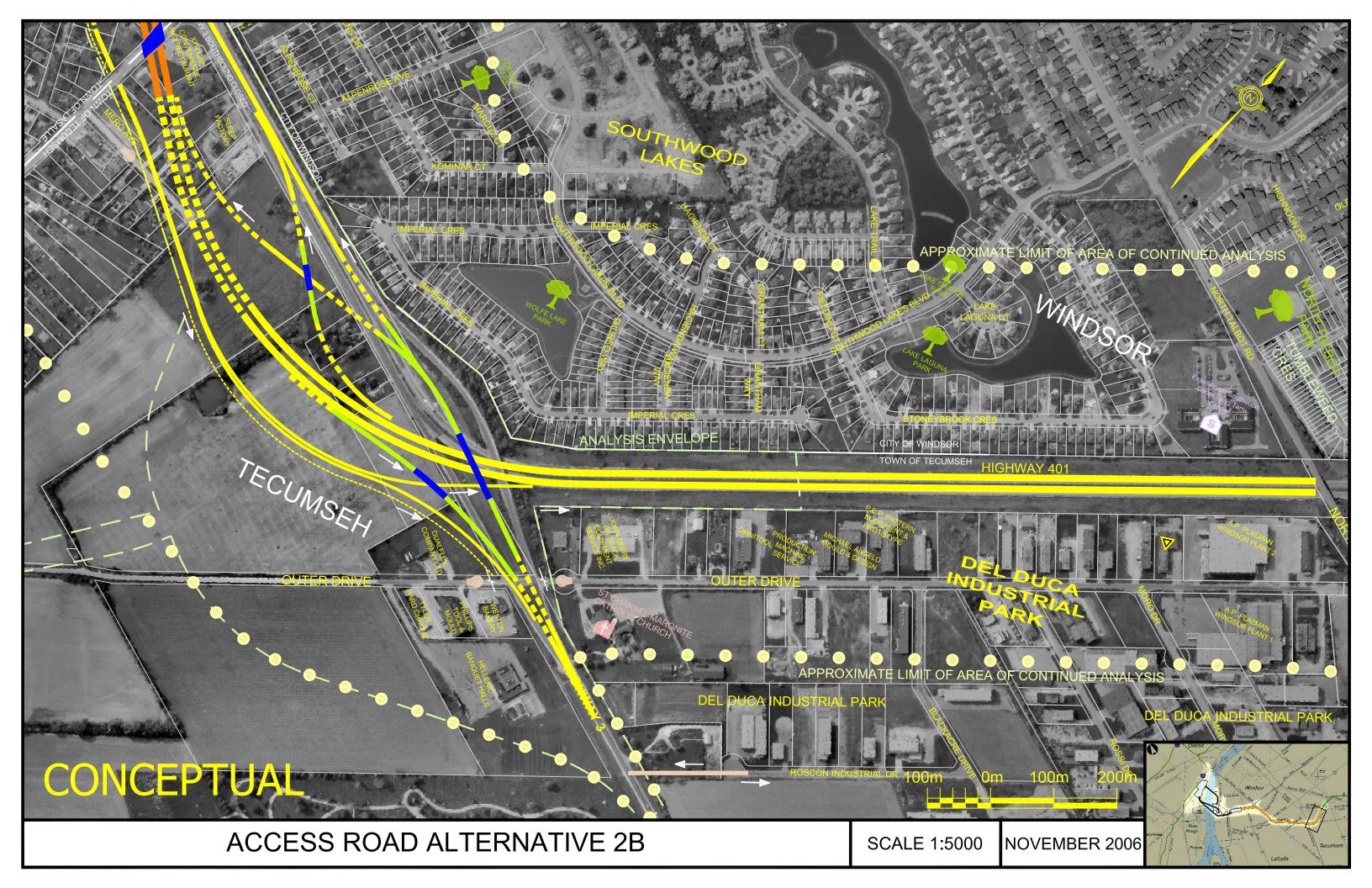




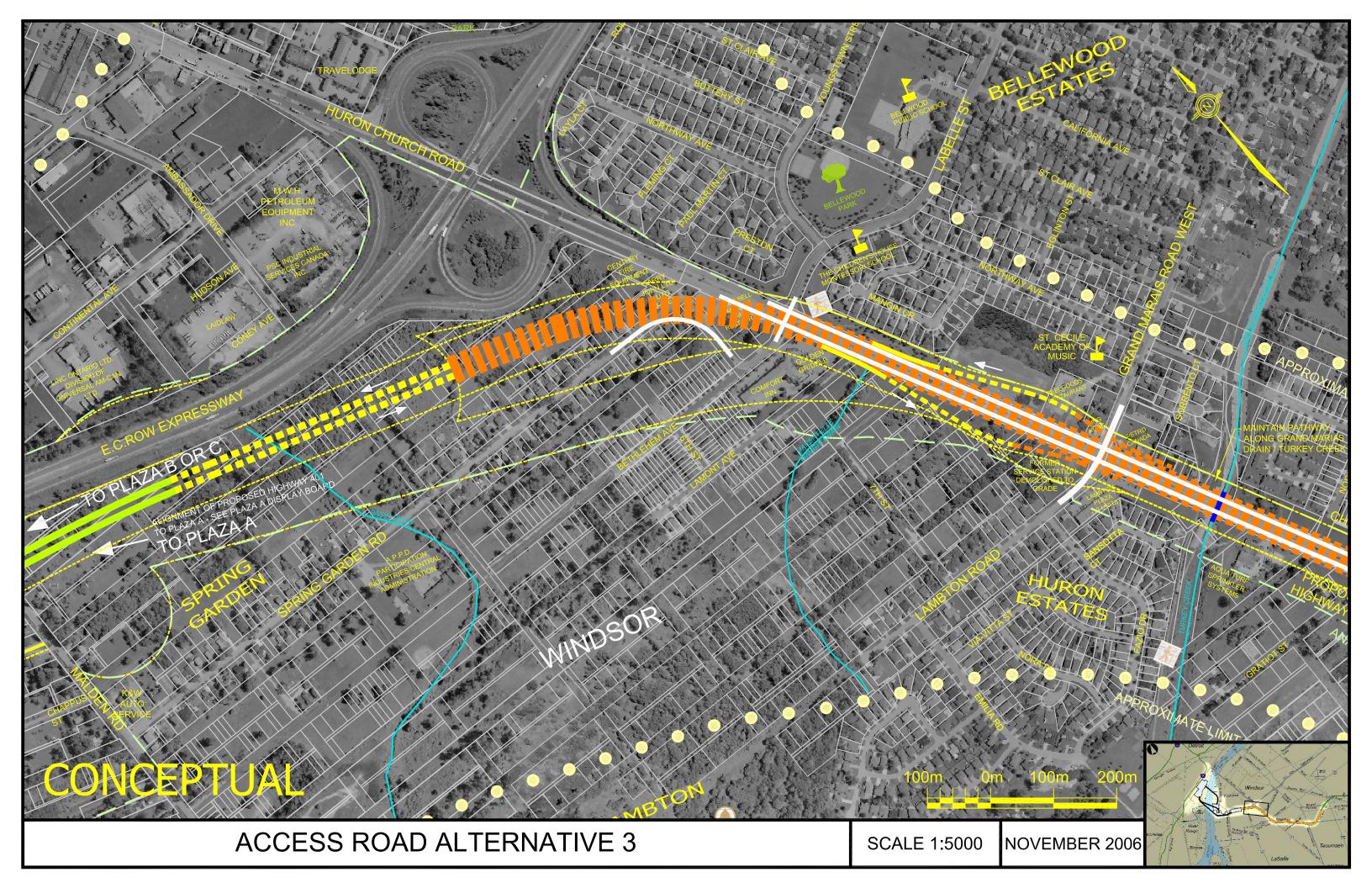


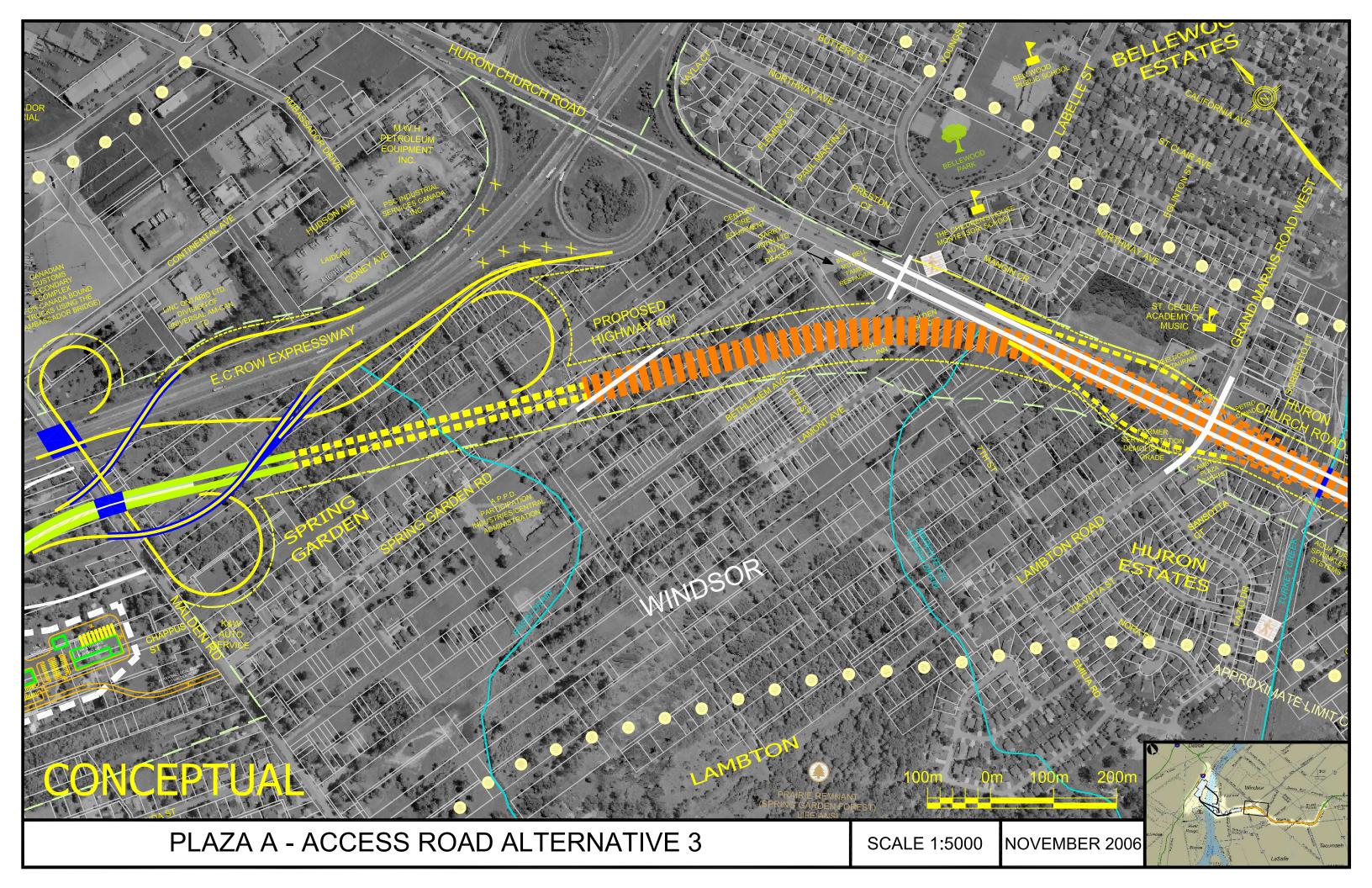


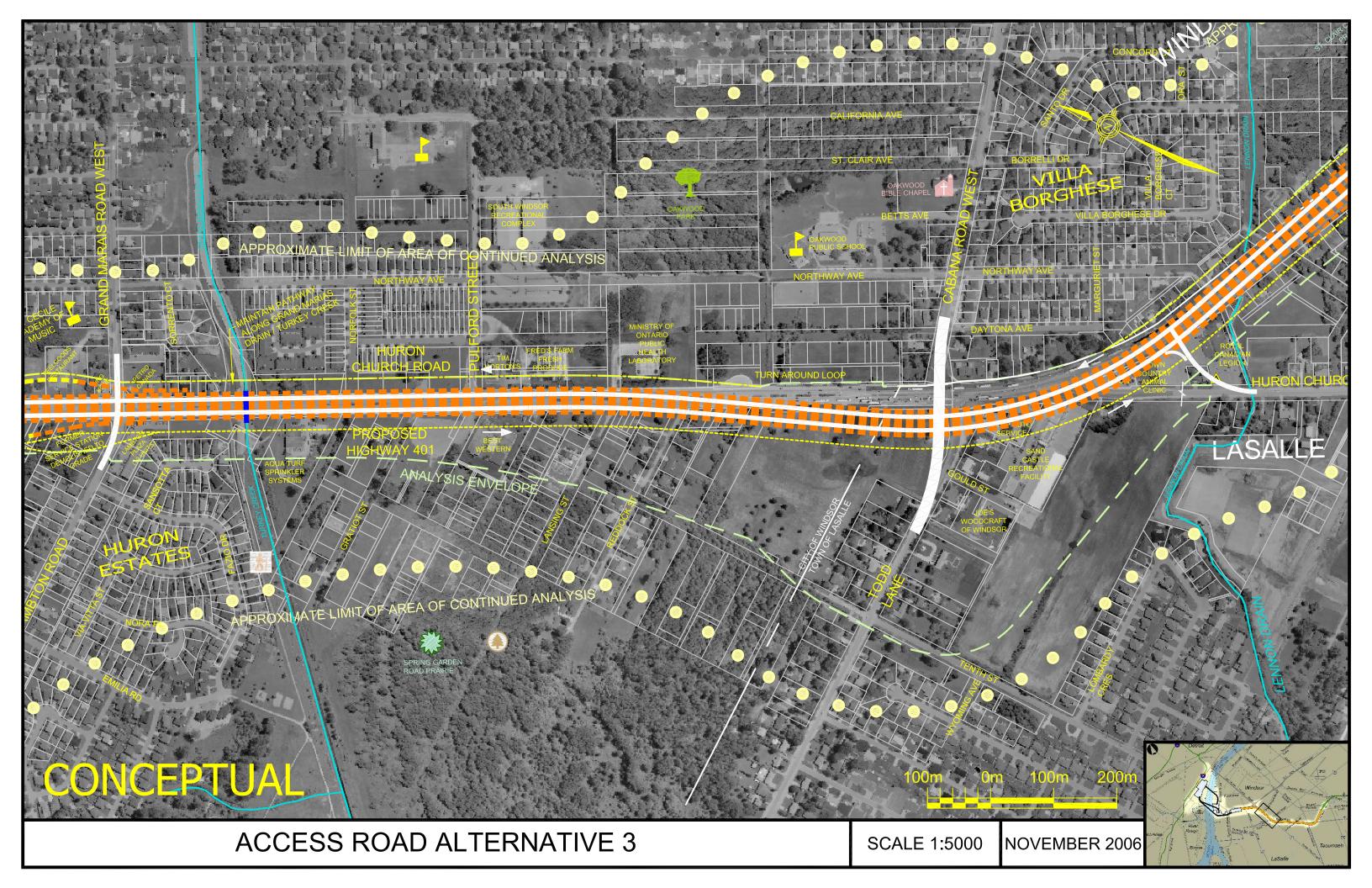


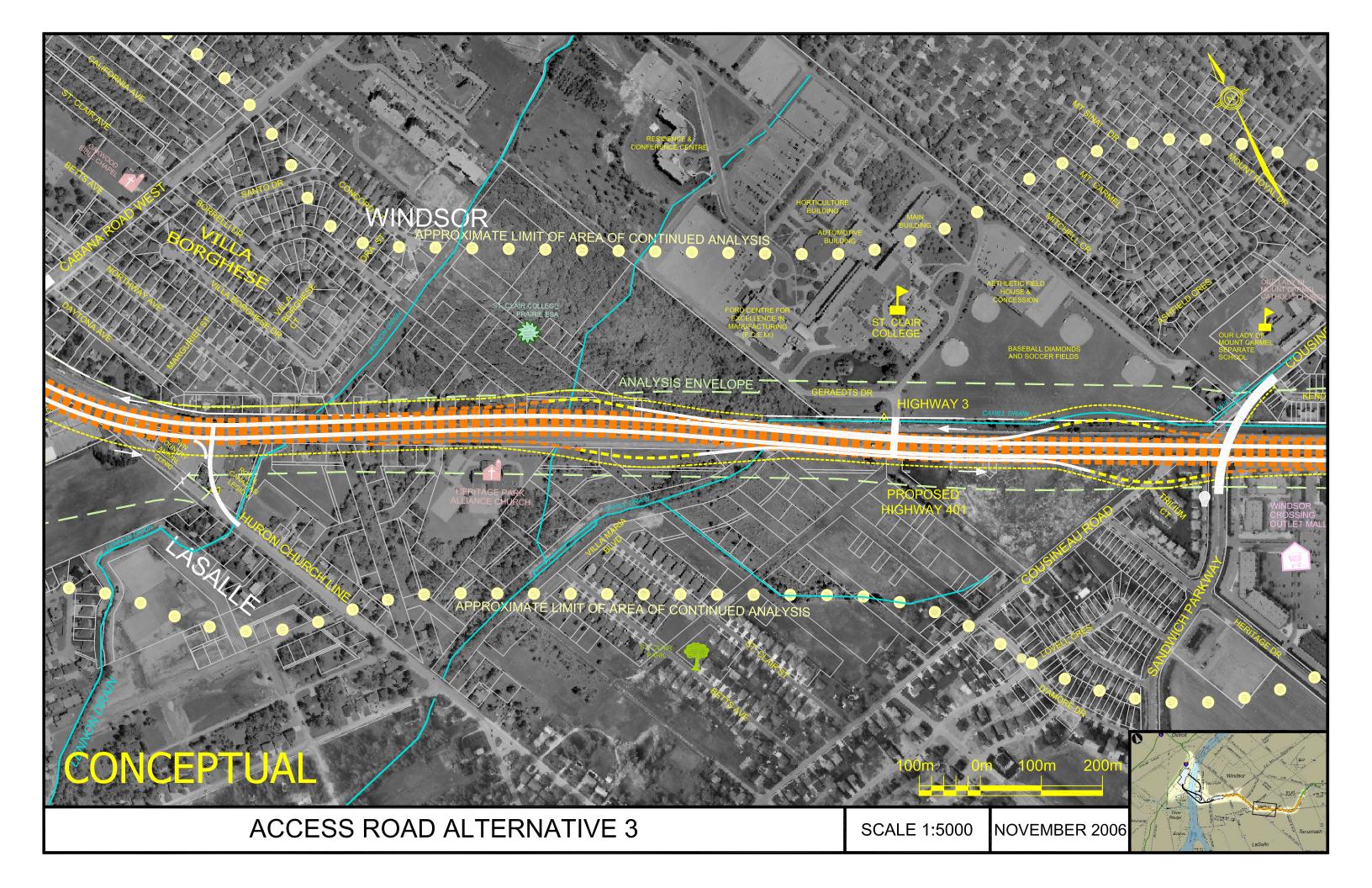


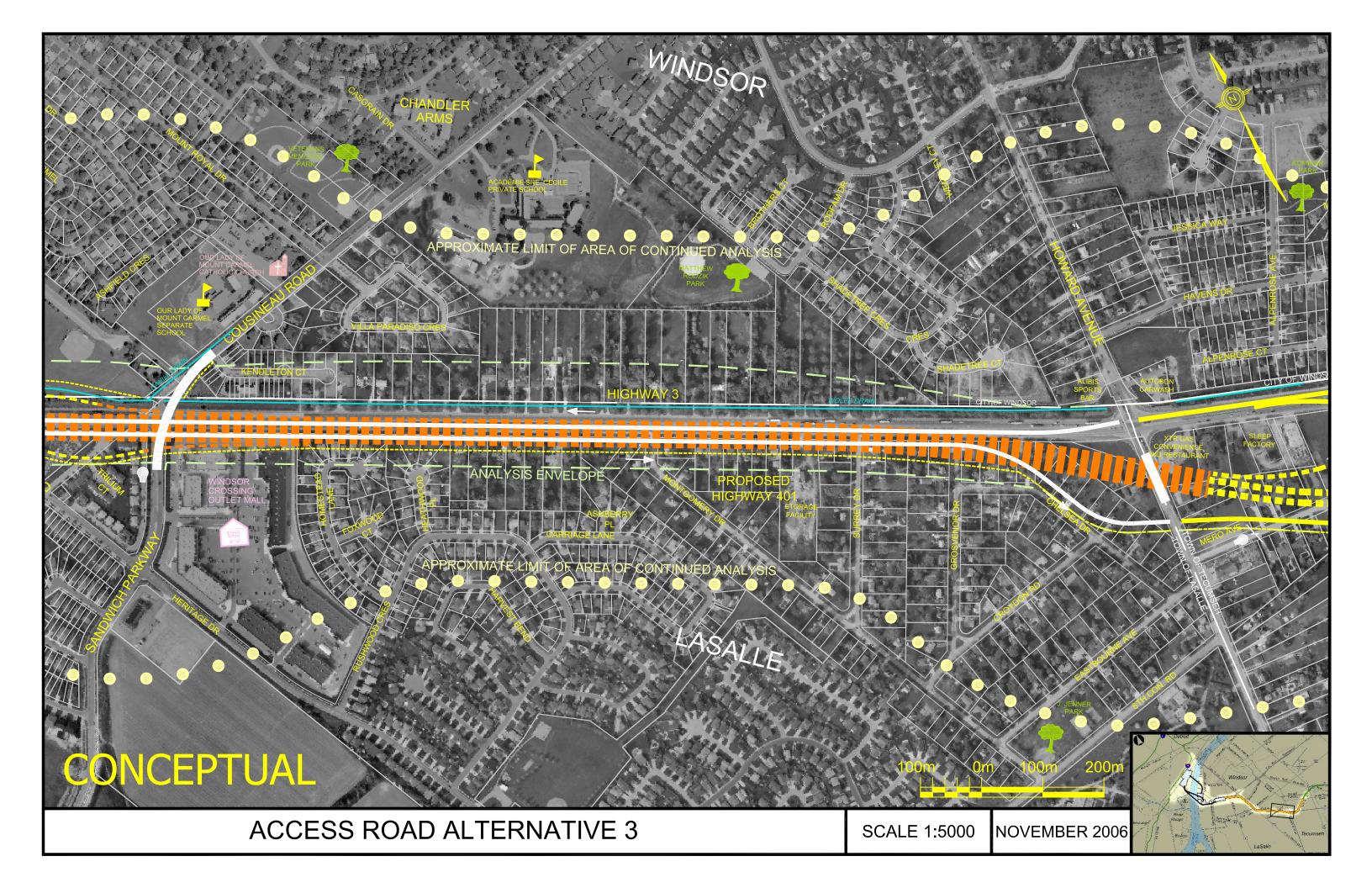
Access Road Alternative 3

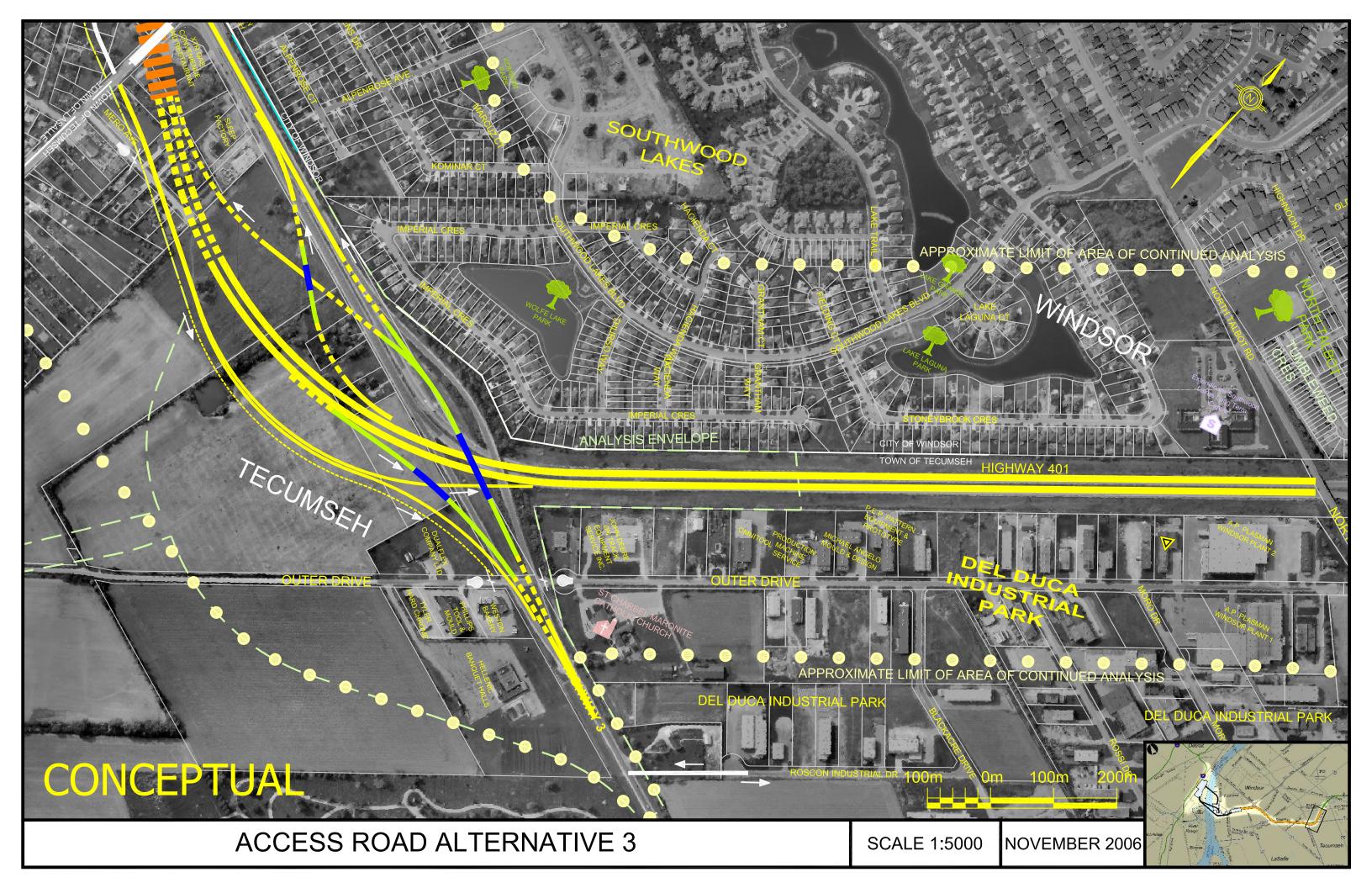


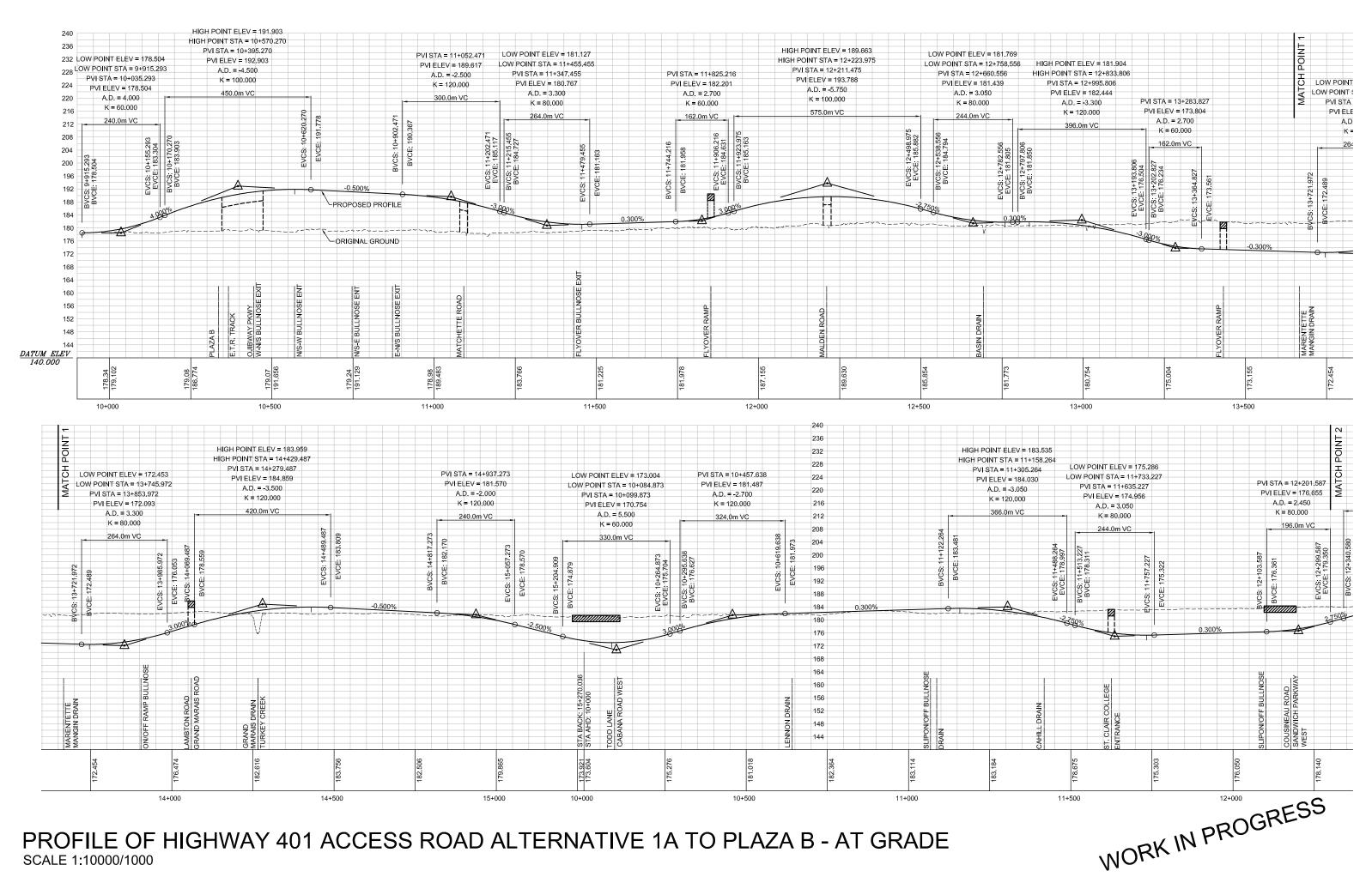


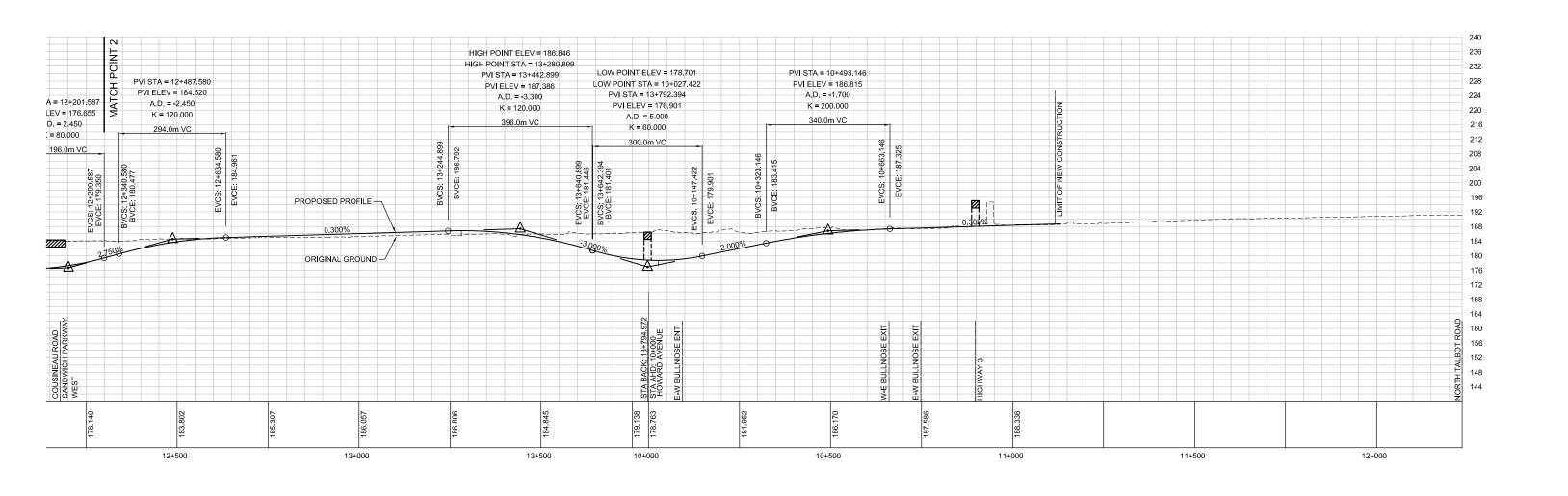


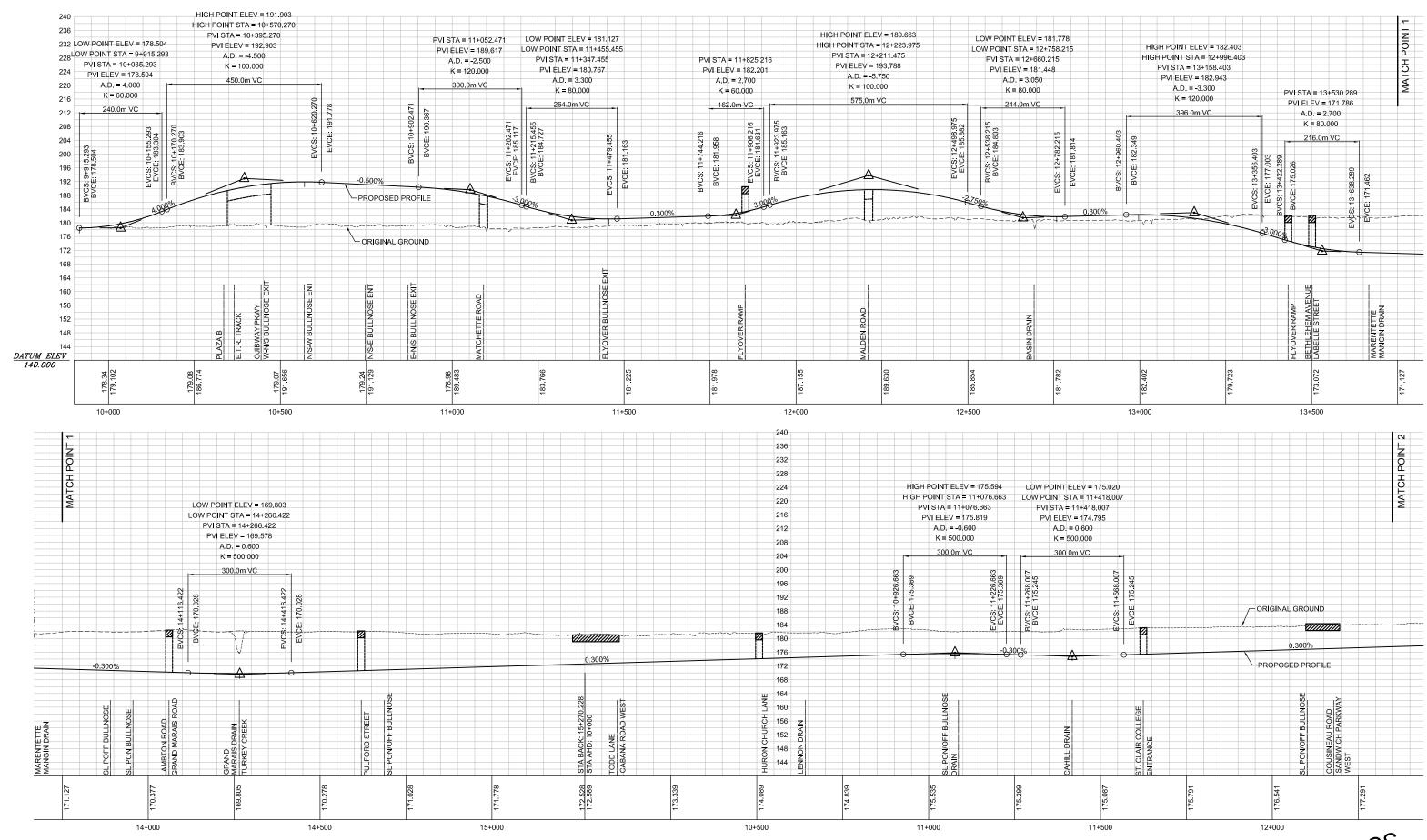






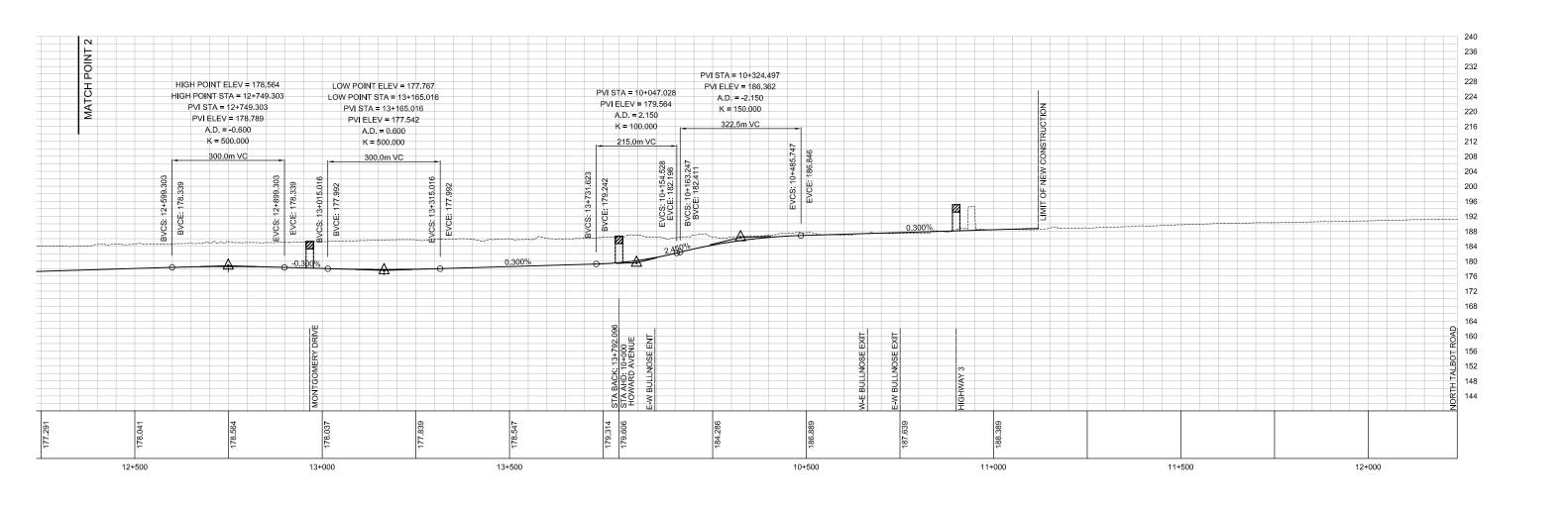


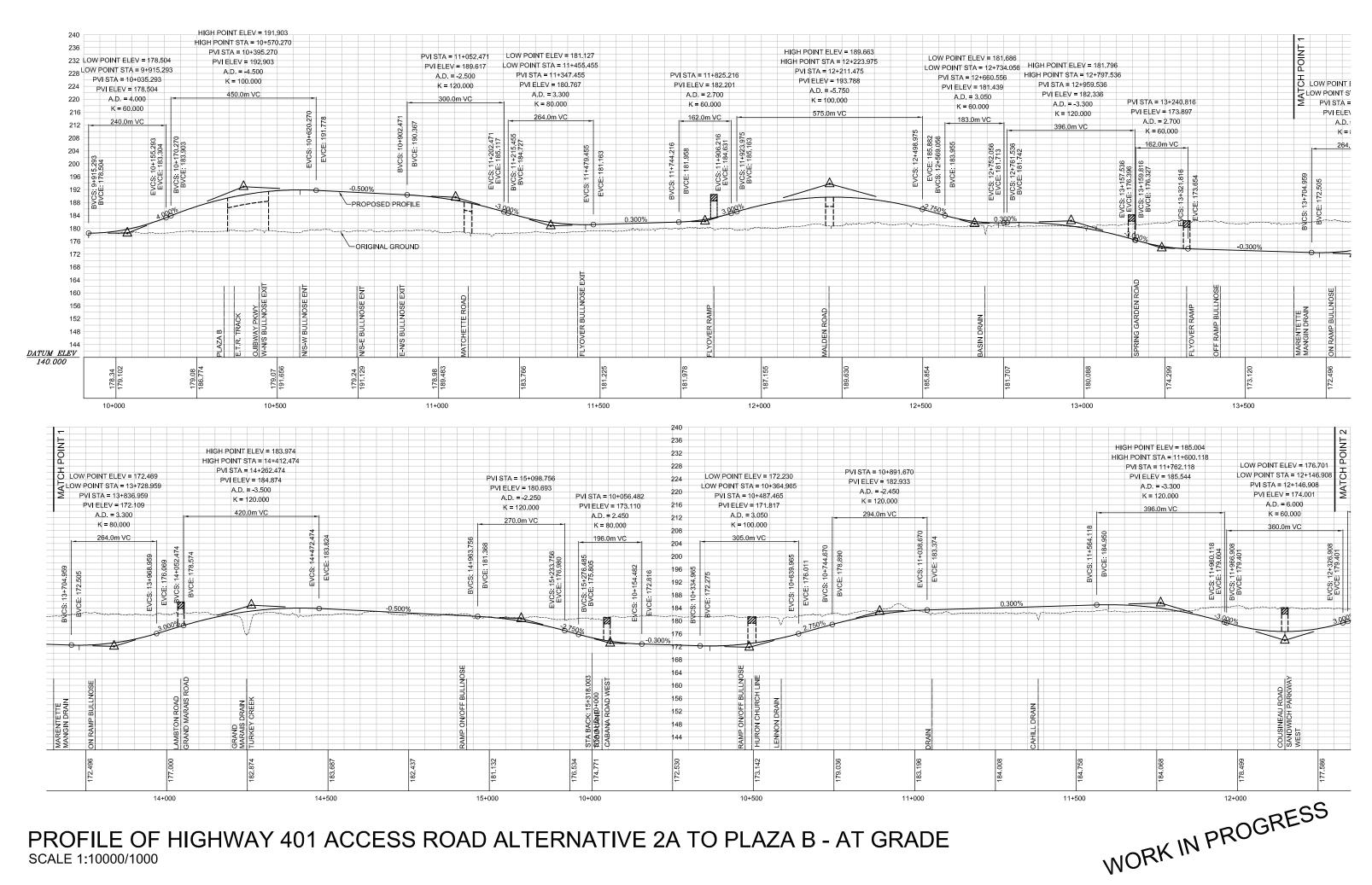


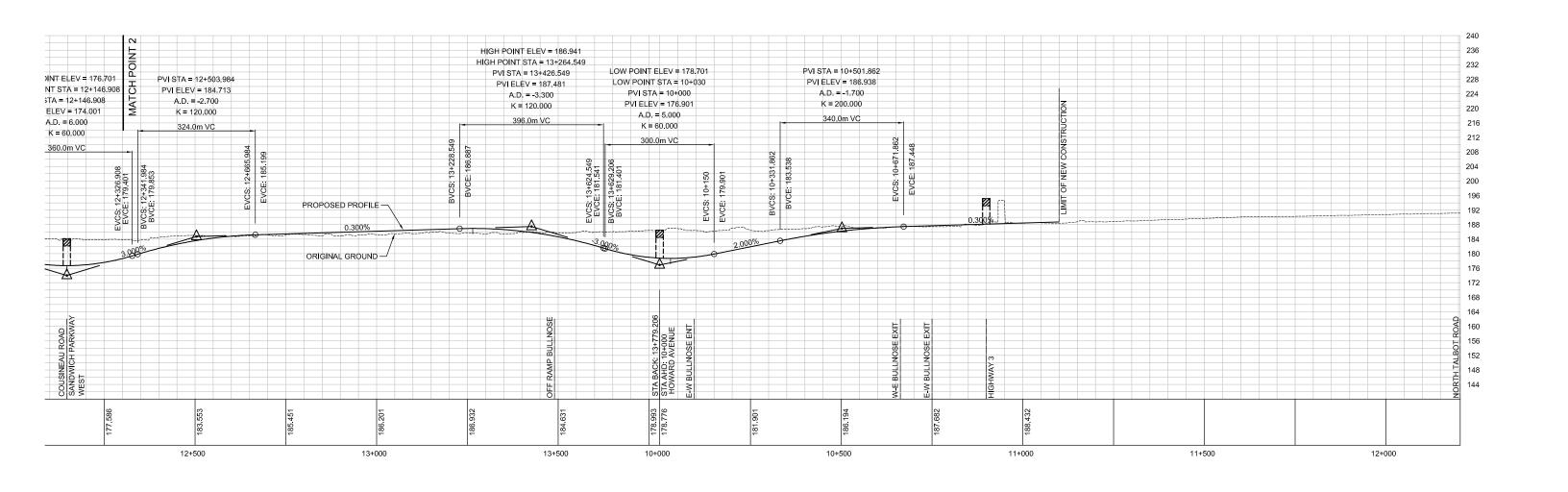


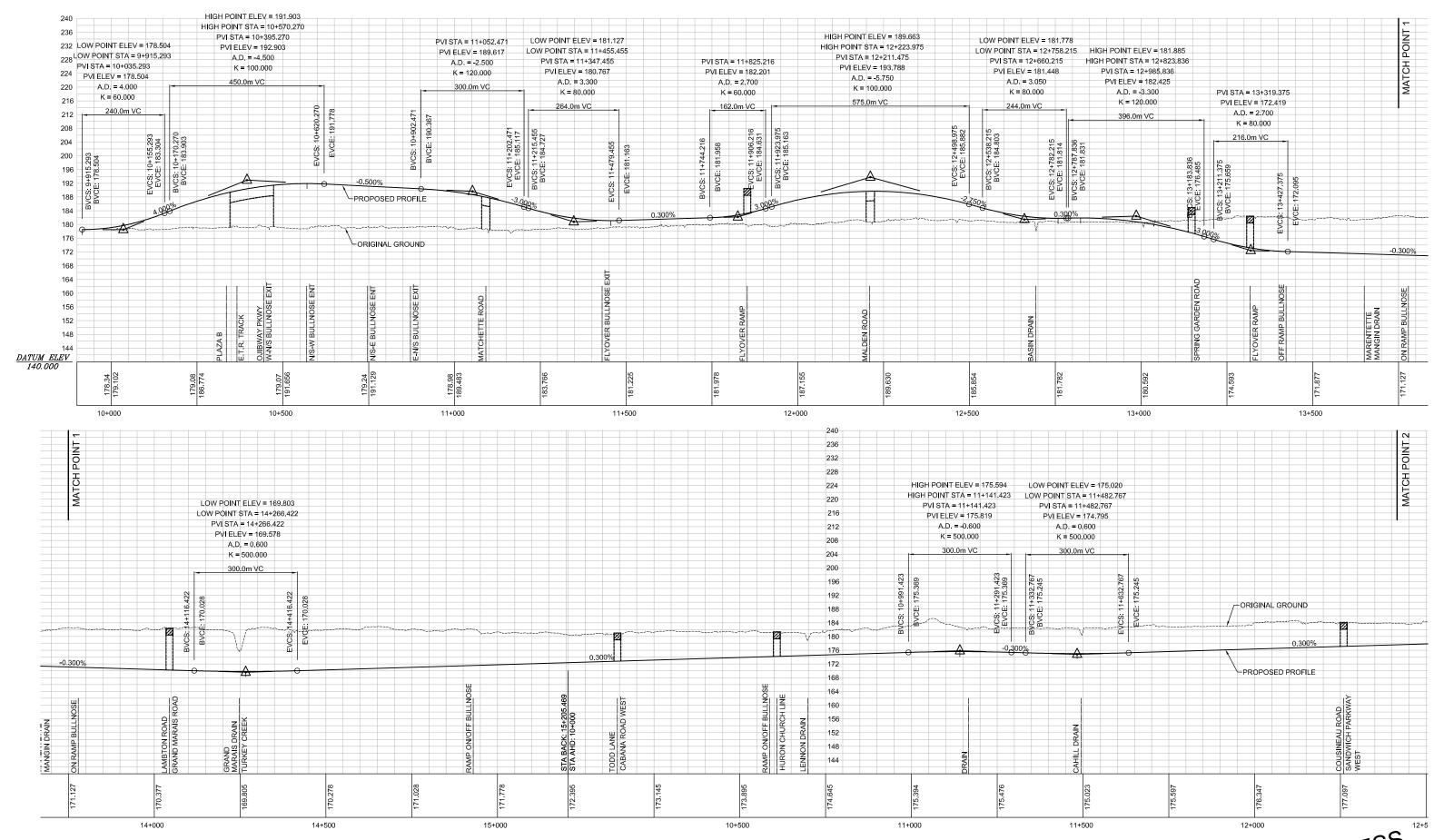
PROFILE OF HIGHWAY 401 ACCESS ROAD ALTERNATIVE 1B TO PLAZA B - BELOW GRADE SCALE 1:10000/1000

WORK IN PROGRESS



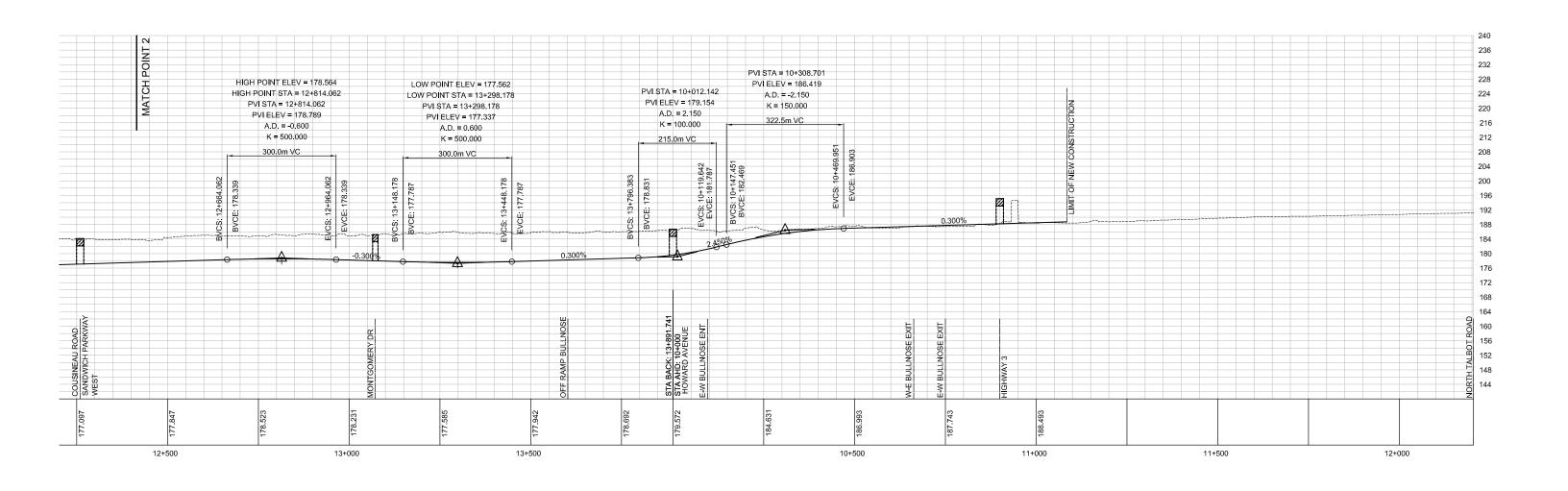


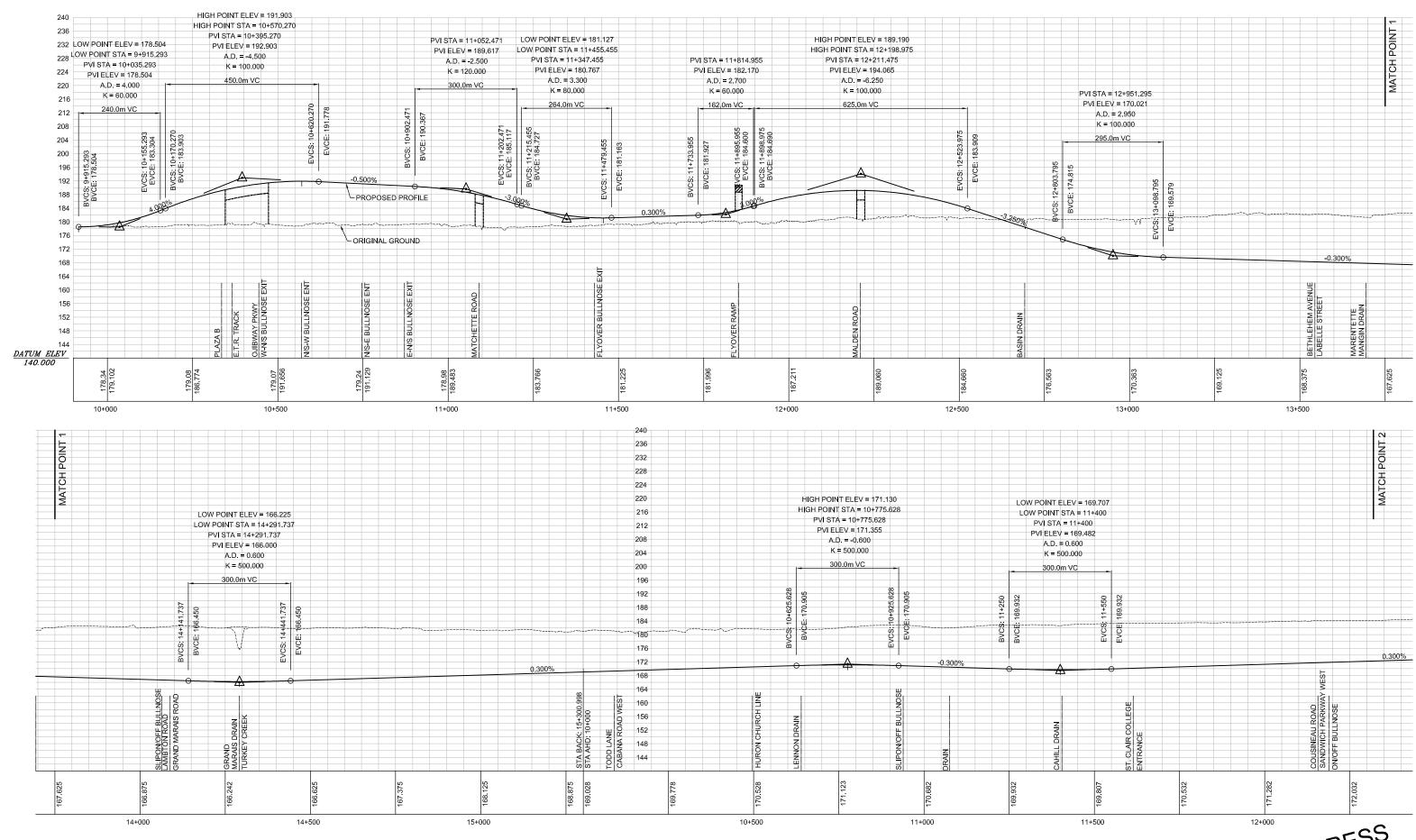




PROFILE OF HIGHWAY 401 ACCESS ROAD ALTERNATIVE 2B TO PLAZA B - BELOW GRADE SCALE 1:10000/1000

WORK IN PROGRESS





WORK IN PROGRESS

