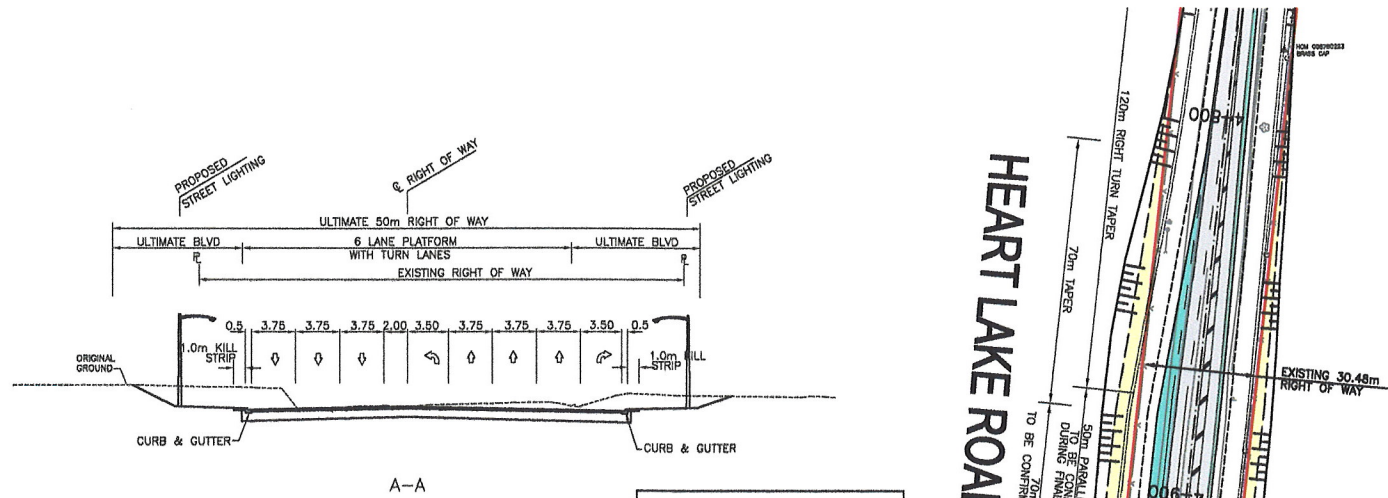


# **APPENDIX J**

## **Recommended Design Concept**

### **Existing Natural Features**

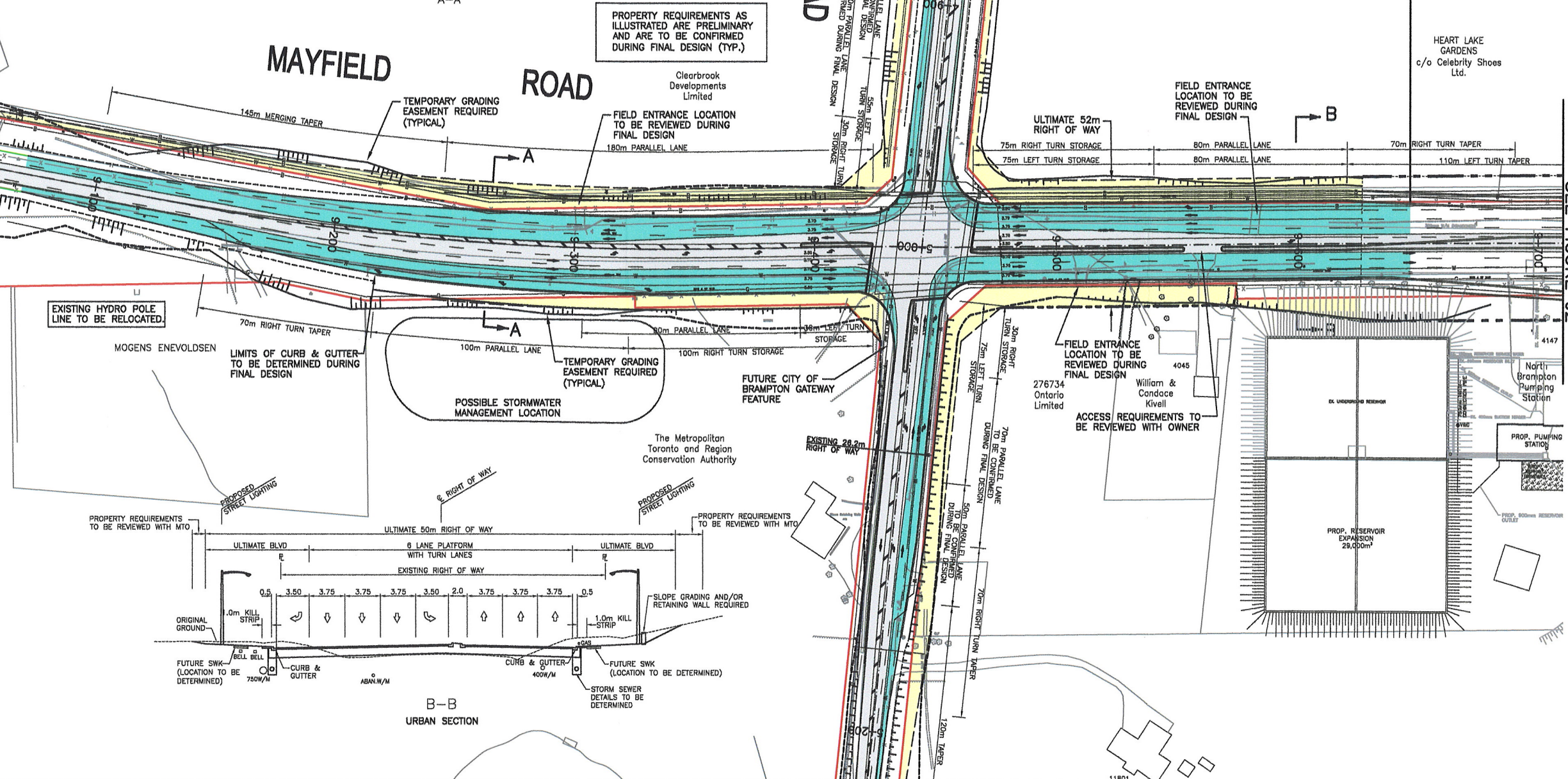
# TOWN OF CALEDON



ILLUSTRATED ROAD IMPROVEMENTS AS PER MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT (HURONTARIO STREET TO HEART LAKE ROAD) NOVEMBER 2002

# CITY OF BRAMPTON

The Metropolitan Toronto and Region Conservation Authority



SEE FIGURE J2

### Legend

- EXISTING RIGHT-OF-WAY
- ULTIMATE RIGHT-OF-WAY
- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION  
RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD  
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004    Scale: 1:2000    Project No. 60210370    Figure No. **Figure J1**





TOWN OF CALEDON

MTO/HIGHWAY 410 INTERCHANGE LIMITS

MAYFIELD ROAD CLASS EA STUDY LIMITS

PROPOSED HWY 410 RIGHT-OF-WAY

TOWN OF CALEDON FORMERLY TOWNSHIP OF CHINGUACOUSY CON 3 EHS LOT 16

Richard & Michael Henry

4314

EXISTING BELL PLANTS TO BE RELOCATED

MAYFIELD ROAD

ULTIMATE 50m RIGHT OF WAY

SEE FIGURE J3

ROAD ALIGNMENT CENTRED WITHIN EXISTING 26.2m RIGHT OF WAY

HEART LAKE GARDENS c/o Celebrity Shoes Ltd.

SE GUY

NORTH BRAMPTON PUMPING STATION ENTRANCE TO BE RIGHT-IN/RIGHT-OUT ONLY AND LEFT-IN ONLY. ENTRANCE DETAILS TO BE CONFIRMED AS PART OF DETAIL DESIGN FOR HIGHWAY 410 INTERCHANGE.

PROPERTY REQUIREMENTS TO BE REVIEWED WITH M.T.O./REGION OF PEEL

PROPOSED HWY 410 RIGHT-OF-WAY

Starbright Holdings Inc.

Province of Ontario Minister of Transport

Province of Ontario Minister of Transportation






Garden Manor Construction Inc.

LOT 17 CON 3 EHS FORMERLY TOWNSHIP OF CHINGUACOUSY CITY OF BRAMPTON

CITY OF BRAMPTON



Legend

-  EXISTING RIGHT-OF-WAY
-  ULTIMATE RIGHT-OF-WAY
-  EXISTING PAVEMENT
-  PROPOSED PAVEMENT WIDENING
-  PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



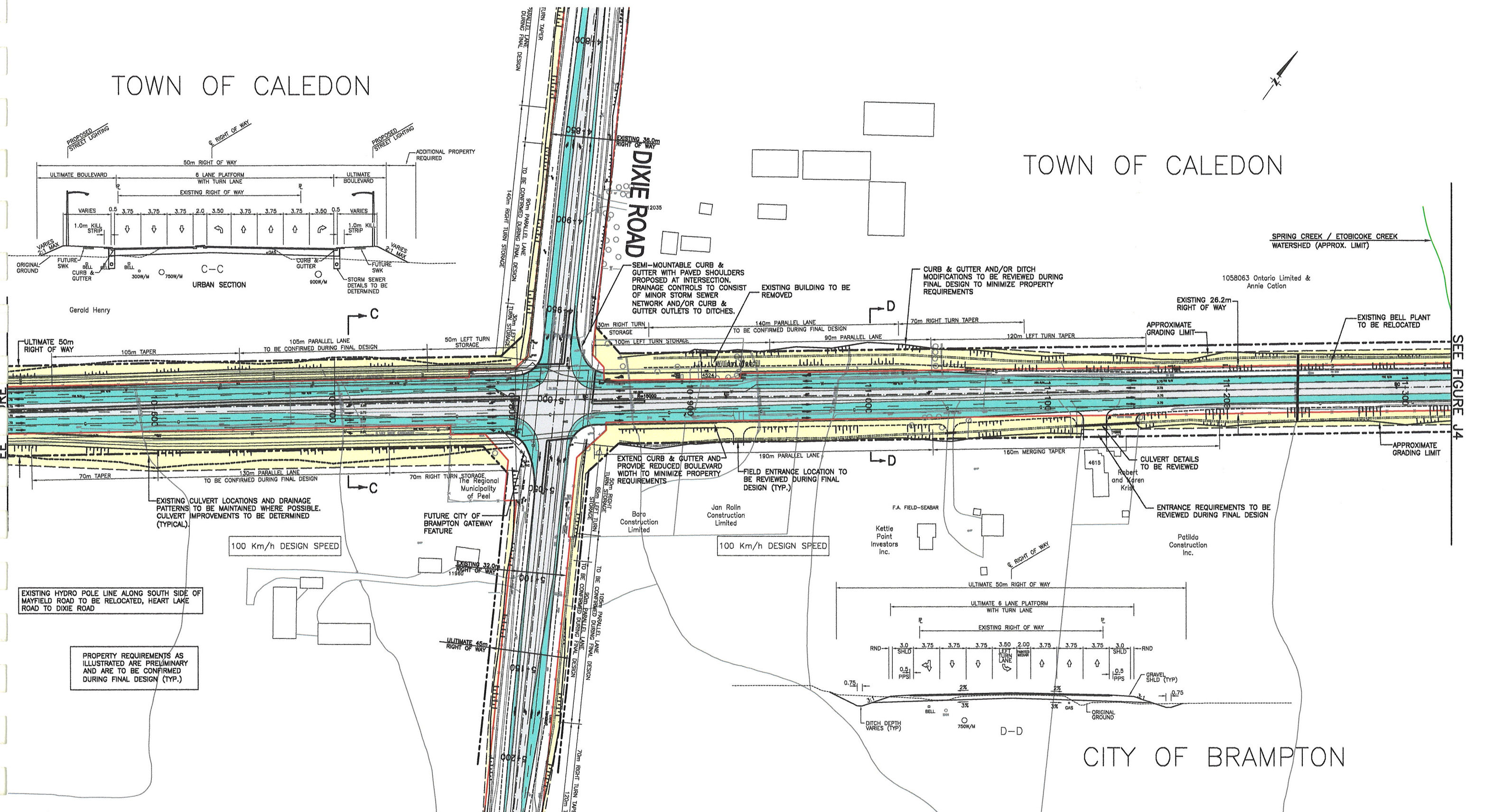
MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION  
RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD  
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004    Scale: 1:2000    Project No. 60210370    Figure No. **Figure J2**



# TOWN OF CALEDON

# TOWN OF CALEDON



SEE FIGURE J4



- Legend**
- EXISTING RIGHT-OF-WAY
  - - - ULTIMATE RIGHT-OF-WAY
  - EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS

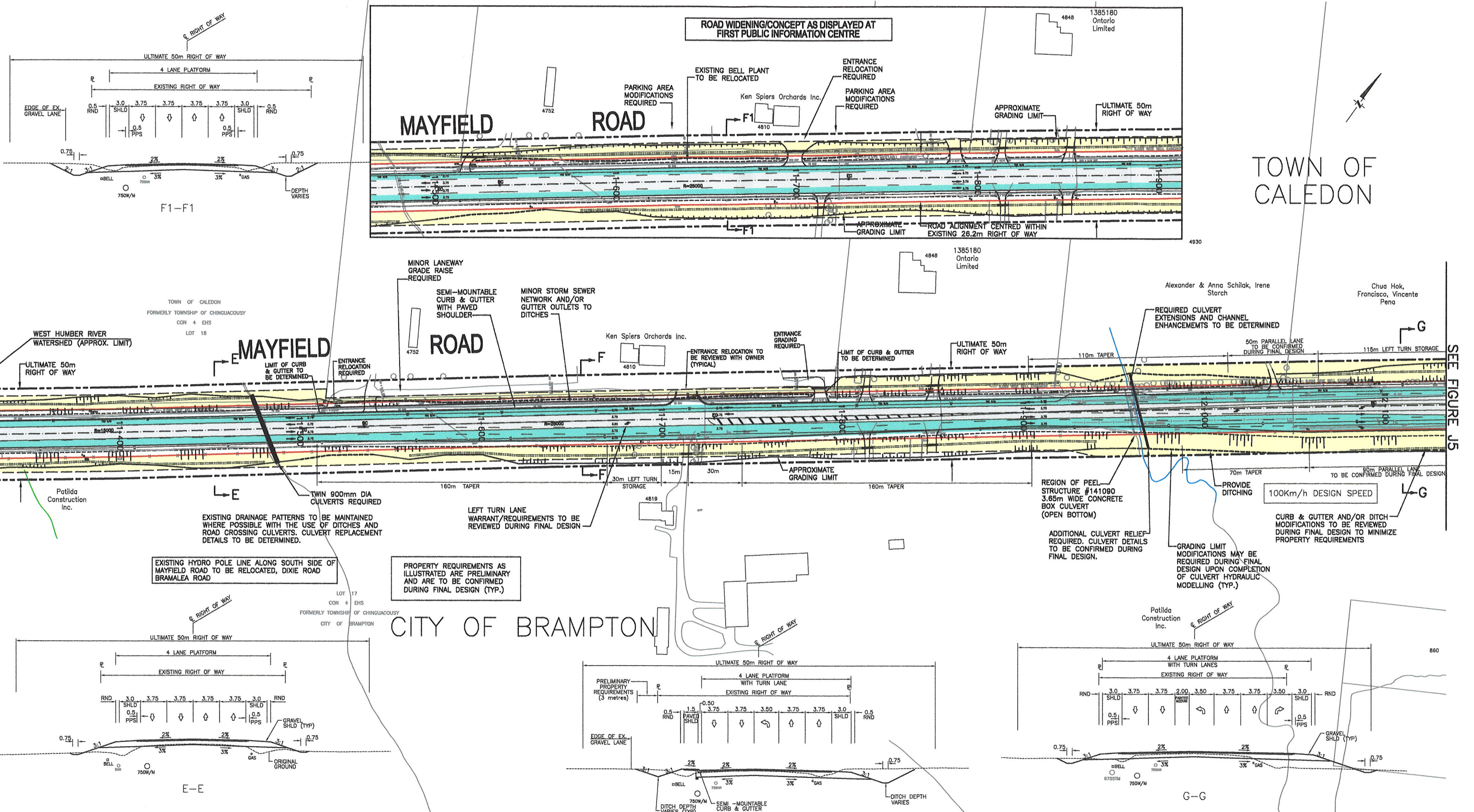


MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION

MAYFIELD ROAD  
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004    Scale: 1:2000    Project No. 60210370    Figure No. **Figure J3**





- Legend**
- EXISTING RIGHT-OF-WAY
  - - - ULTIMATE RIGHT-OF-WAY
  - EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



MAYFIELD ROAD CLASS ENVIRONMENTAL  
ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION  
RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD  
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004      Scale: 1:2000      Project No. 60210370      Figure No. **Figure J4**



TOWN OF CALEDON

TOWN OF CALEDON  
FORMERLY TOWNSHIP OF CHINGUACOUSY  
CON 5 EHS  
LOT 18

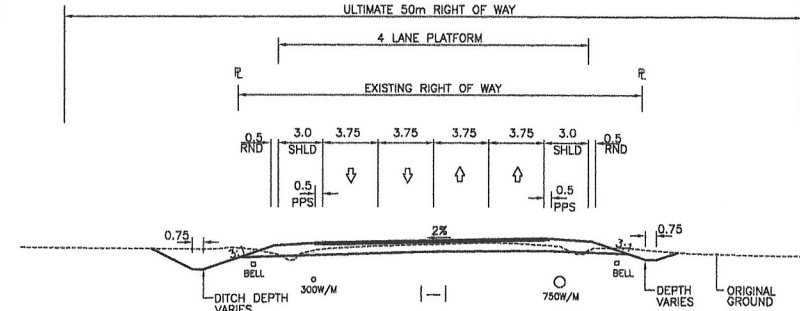


BRAMALEA ROAD

MAYFIELD SECONDARY SCHOOL  
5000 MAYFIELD ROAD

Bus Staging Area

PROPOSED CURB & GUTTER ALONG HIGH SCHOOL FRONTAGE



MAYFIELD ROAD

APPROXIMATE GRADING LIMIT

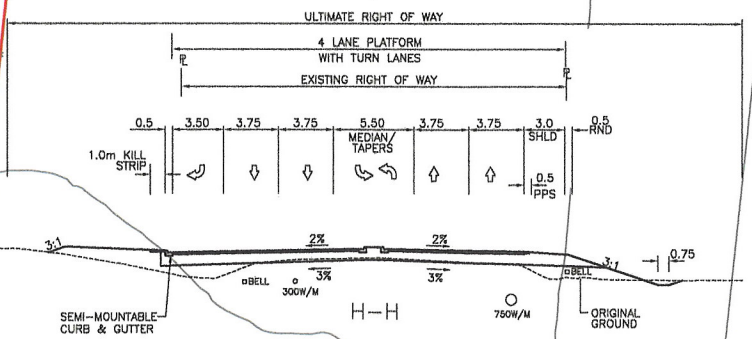
SEE FIGURE J6

SEE FIGURE J5

FUTURE CITY OF BRAMPTON GATEWAY FEATURE  
SEMI-MOUNTABLE CURB & GUTTER WITH PAVED SHOULDERS PROPOSED AT INTERSECTION. DRAINAGE CONTROLS TO CONSIST OF MINOR STORM SEWER NETWORK AND/OR CURB & GUTTER OUTLETS TO DITCHES.

80 Km/h DESIGN SPEED

BRAMALEA ROAD PROPERTY REQUIREMENTS TO BE DETERMINED



ROAD ALIGNMENT CENTRED WITHIN EXISTING 26.2m RIGHT OF WAY

EXISTING DRAINAGE PATTERNS TO BE MAINTAINED WHERE POSSIBLE WITH THE USE OF DITCHES AND ROAD CROSSING CULVERTS. CULVERT REPLACEMENT DETAILS TO BE DETERMINED.

PROPERTY REQUIREMENTS AS ILLUSTRATED ARE PRELIMINARY AND ARE TO BE CONFIRMED DURING FINAL DESIGN (TYP.)

APPROXIMATE GRADING LIMIT

Franco Pignataro, Mario Pignataro, Albert Paradiso, Gino Paradiso, Eddy Aiello

MAYFIELD GARDEN CENTRE  
Filomena & Giuseppe Gagliese

1306923 Ontario Limited

CITY OF BRAMPTON



- Legend
- EXISTING RIGHT-OF-WAY
  - - - ULTIMATE RIGHT-OF-WAY
  - EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION

RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD

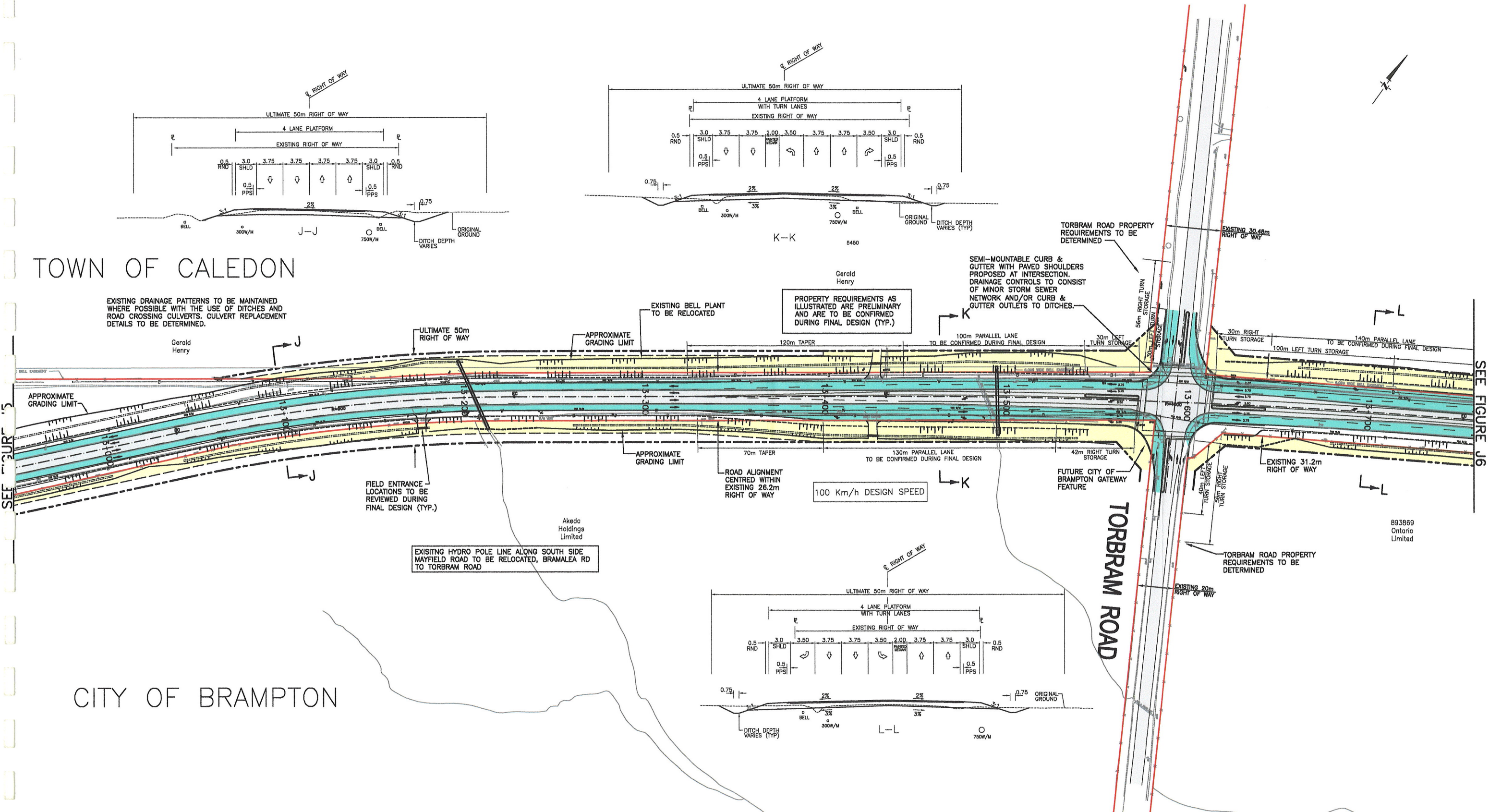
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004      Scale: 1:2000      Project No. 60210370      Figure No. Figure J5



# TOWN OF CALEDON

EXISTING DRAINAGE PATTERNS TO BE MAINTAINED WHERE POSSIBLE WITH THE USE OF DITCHES AND ROAD CROSSING CULVERTS. CULVERT REPLACEMENT DETAILS TO BE DETERMINED.



# CITY OF BRAMPTON



Stantec

### Legend

- EXISTING RIGHT-OF-WAY
- ULTIMATE RIGHT-OF-WAY
- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



## MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION

RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD  
HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004    Scale: 1:2000    Project No. 60210370    Figure No. **Figure J6**





TOWN OF CALEDON  
FORMERLY TOWNSHIP OF CHINGUACOUSY  
CON 6 EHS  
LOT 18

TOWN OF CALEDON

100 Km/h DESIGN SPEED

90 Km/h DESIGN SPEED

EXISTING DRAINAGE PATTERNS TO BE MAINTAINED WHERE POSSIBLE WITH THE USE OF DITCHES AND ROAD CROSSING CULVERTS. CULVERT REPLACEMENT DETAILS TO BE DETERMINED.

REQUIRED CULVERT EXTENSIONS AND CHANNEL IMPROVEMENTS TO BE DETERMINED

APPROXIMATE GRADING LIMIT

MAYFIELD ROAD

EXISTING BELL PLANT TO BE RELOCATED

UTILITY IMPACTS TO BE REVIEWED

ULTIMATE 50m RIGHT OF WAY

APPROXIMATE GRADING LIMIT

EXISTING 48m RIGHT OF WAY

ULTIMATE 50m RIGHT OF WAY

PROVIDE DITCHING

ADDITIONAL CULVERT RELIEF REQUIRED. CULVERT DETAILS TO BE CONFIRMED DURING FINAL DESIGN.

REGION OF PEEL STRUCTURE #140890 9m WIDE CONCRETE ARCH CULVERT (OPEN BOTTOM)

GRADING LIMIT MODIFICATIONS MAY BE REQUIRED DURING FINAL DESIGN UPON COMPLETION OF CULVERT HYDRAULIC MODELLING (TYP.)

TEMPORARY GRADING EASEMENT REQUIRED

FIELD ENTRANCE LOCATIONS TO BE REVIEWED DURING FINAL DESIGN (TYP.)

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

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JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

JOT HOLDINGS INC.

Guido & Antonia Vicalvi

Casa North Investments Inc.

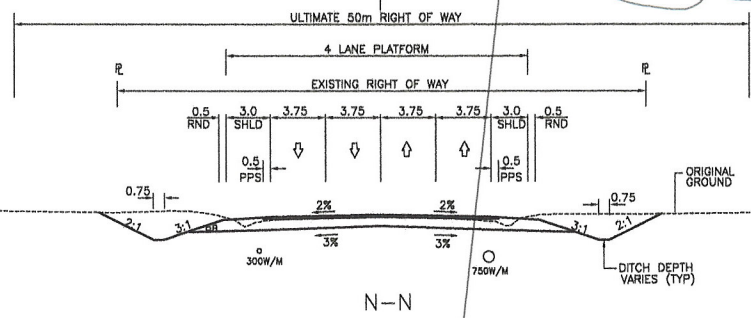
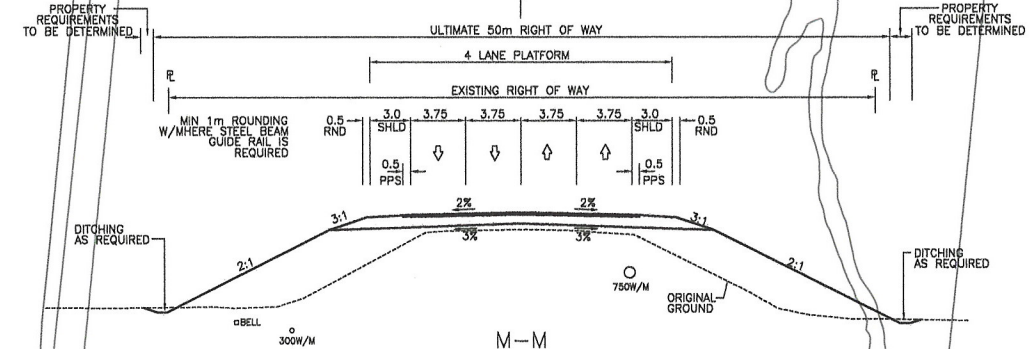
LOT 17  
CON 8 EHS  
FORMERLY TOWNSHIP OF CHINGUACOUSY  
CITY OF BRAMPTON

PRABH HOLDINGS INC.

EXISTING HYDRO POLE LINE ALONG SOUTH SIDE MAYFIELD ROAD TO BE RELOCATED, TORBRAM ROAD TO AIRPORT RD

PROPERTY REQUIREMENTS AS ILLUSTRATED ARE PRELIMINARY AND ARE TO BE CONFIRMED DURING FINAL DESIGN (TYP.)

CITY OF BRAMPTON



- Legend**
- EXISTING RIGHT-OF-WAY
  - - - ULTIMATE RIGHT-OF-WAY
  - EXISTING PAVEMENT
  - PROPOSED PAVEMENT WIDENING
  - PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION

RECOMMENDED DESIGN CONCEPT  
MAYFIELD ROAD

HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004      Scale: 1:2000      Project No. 60210370      Figure No. Figure J7

SEE FIGURE J8



90 Km/h DESIGN SPEED

80 Km/h DESIGN SPEED

80 Km/h DESIGN SPEED

AT THE DETAIL DESIGN STAGE THE TURN LANE REQUIREMENTS AT AIRPORT ROAD MUST BE REVIEWED BASED ON AN UPDATED TRAFFIC ANALYSIS.

ILLUSTRATED INTERSECTION IMPROVEMENTS AS PER COMPLETED AIRPORT ROAD CLASS ENVIRONMENTAL ASSESSMENT.

REQUIRED CULVERT EXTENSIONS AND CHANNEL IMPROVEMENTS TO BE DETERMINED  
REGION OF PEEL STRUCTURE #140810 3m WIDE CONCRETE BOX CULVERT (OPEN BOTTOM)

GRADING LIMIT MODIFICATIONS MAY BE REQUIRED DURING FINAL DESIGN UPON COMPLETION OF CULVERT HYDRAULIC MODELLING (TYP.)

ADDITIONAL CULVERT RELIEF REQUIRED. CULVERT DETAILS TO BE CONFIRMED DURING FINAL DESIGN.

FIELD ENTRANCE LOCATIONS TO BE REVIEWED DURING FINAL DESIGN (TYP.)

CURB & GUTTER LIMITS TO BE DETERMINED DURING FINAL DESIGN (TYP.)

150m LEFT TURN STORAGE

70m PARALLEL LANE TO BE CONFIRM DURING FINAL DESIGN

70m RIGHT TURN TAPER

50m RIGHT TURN STORAGE

PEEL CULVERT

PEEL CULVERT

PEEL CULVERT

PEEL CULVERT

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PEEL CULVERT



Stantec

Legend

- EXISTING RIGHT-OF-WAY
- ULTIMATE RIGHT-OF-WAY
- PROPOSED IMPROVEMENTS (BY OTHERS)
- EXISTING PAVEMENT
- PROPOSED PAVEMENT WIDENING
- PROPOSED IMPROVEMENTS (BY OTHERS)
- PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS



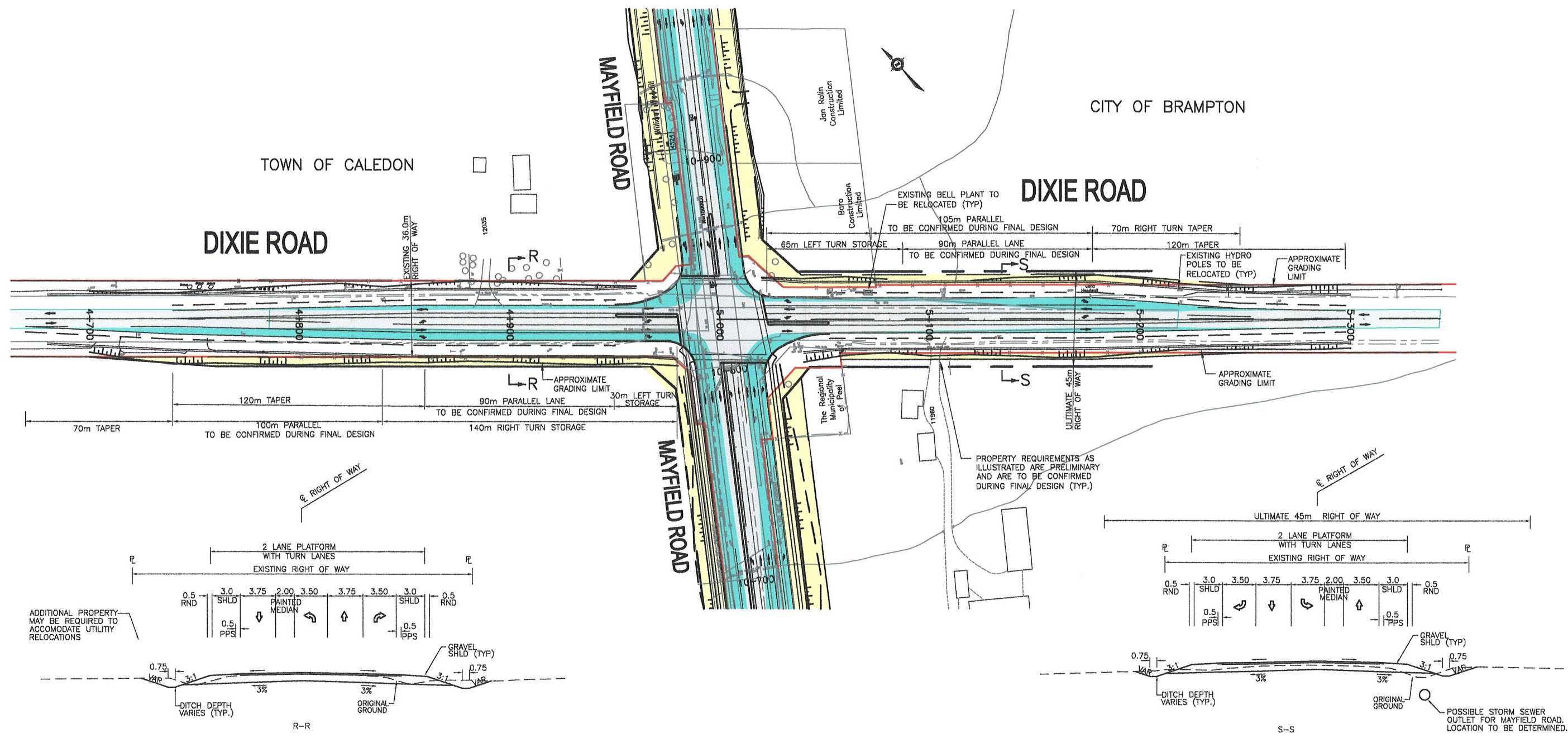
MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION

RECOMMENDED DESIGN CONCEPT MAYFIELD ROAD

HEART LAKE ROAD TO AIRPORT ROAD

Date: APRIL 2004 Scale: 1:2000 Project No. 60210370 Figure No. Figure J8





- Legend**
- EXISTING RIGHT-OF-WAY
  - EXISTING PAVEMENT
  - PRELIMINARY PROPERTY ACQUISITION REQUIREMENTS
  - PROPOSED PAVEMENT WIDENING
  - ULTIMATE RIGHT-OF-WAY



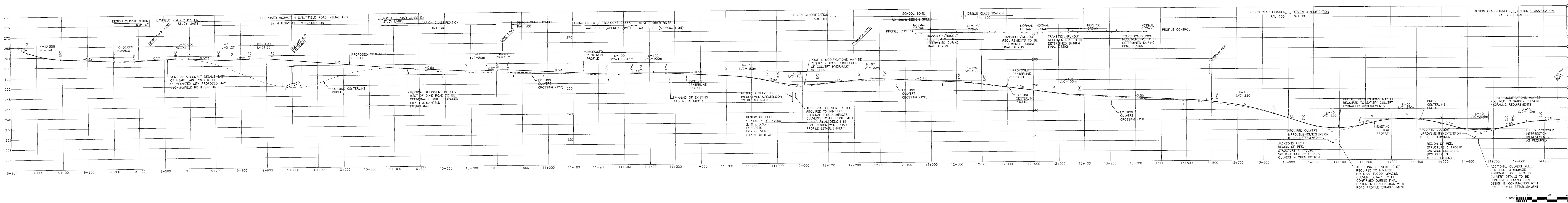
**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION**

**RECOMMENDED DESIGN CONCEPT  
DIXIE ROAD PLAN**

Date: APRIL 2004    Scale: 1:2000    Project No. 60210370    Figure No. **Figure J9**



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**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION**  
**RECOMMENDED DESIGN CONCEPT**  
**MAYFIELD ROAD PROFILE**

Date: APRIL 2004 Scale: 1:4000 Project No: 60210370 Figure No.: J10







**Natural Resource Solutions Inc.**

*Aquatic, Wetland and Terrestrial Biologists*

**VEGETATION UNITS**

- Wetland
- MAS2-1 Cattail Mineral Shallow Marsh
- MAM2-6 Broad-leaved Sedge Mineral Meadow Marsh
- Upland
- CUM1-1 Old Field Meadow Type
- CUW Cultural Woodland
- FOM4 White Cedar Mixed Forest
- FOM7 White Cedar-Hardwood Mixed Forest
- FOD6-1 Sugar Maple-Lowland Ash Forest
- FOD8-1 Poplar Deciduous Forest

**AQUATIC FEATURES**

- Habitat Assessment Station
- Habitat Assessment and Fish Sampling Station
- 1** Creek Crossing Number (Text Reference Code)



**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
PEEL REGION**

**EXISTING NATURAL FEATURES**

Date: APRIL 2004    Scale: 1:3000    Project No. 60210370    Figure No. **Figure J11**





SEE FIGURE J11

SEE FIGURE J13

**Natural Resource Solutions Inc.**

*Aquatic, Wetland and Terrestrial Biologists*

**VEGETATION UNITS**

- Wetland
- MAS2-1 Cattail Mineral Shallow Marsh
- MAM2-6 Broad-leaved Sedge Mineral Meadow Marsh
- Upland
- CUM1-1 Old Field Meadow Type
- CUW Cultural Woodland
- FOM4 White Cedar Mixed Forest
- FOM7 White Cedar-Hardwood Mixed Forest
- FOD6-1 Sugar Maple-Lowland Ash Forest
- FOD8-1 Poplar Deciduous Forest

**AQUATIC FEATURES**

- Habitat Assessment Station
- Habitat Assessment and Fish Sampling Station
- 1 Creek Crossing Number (Text Reference Code)



**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION**

**EXISTING NATURAL FEATURES**

Date: APRIL 2004    Scale: 1:3000    Project No. 60210370    Figure No. **Figure J12**



SEE FIGURE J13

SEE FIGURE J14



**Natural Resource Solutions Inc.**  
*Aquatic, Wetland and Terrestrial Biologists*

**VEGETATION UNITS**

Wetland	
MAS2-1	Cattail Mineral Shallow Marsh
MAM2-6	Broad-leaved Sedge Mineral Meadow Marsh
Upland	
CUM1-1	Old Field Meadow Type
CUW	Cultural Woodland
FOM4	White Cedar Mixed Forest
FOM7	White Cedar-Hardwood Mixed Forest
FOD6-1	Sugar Maple-Lowland Ash Forest
FOD8-1	Poplar Deciduous Forest

**AQUATIC FEATURES**

<span style="color: blue;">●</span>	Habitat Assessment Station
<span style="color: red;">●</span>	Habitat Assessment and Fish Sampling Station
<b>1</b>	Creek Crossing Number (Text Reference Code)



**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION**

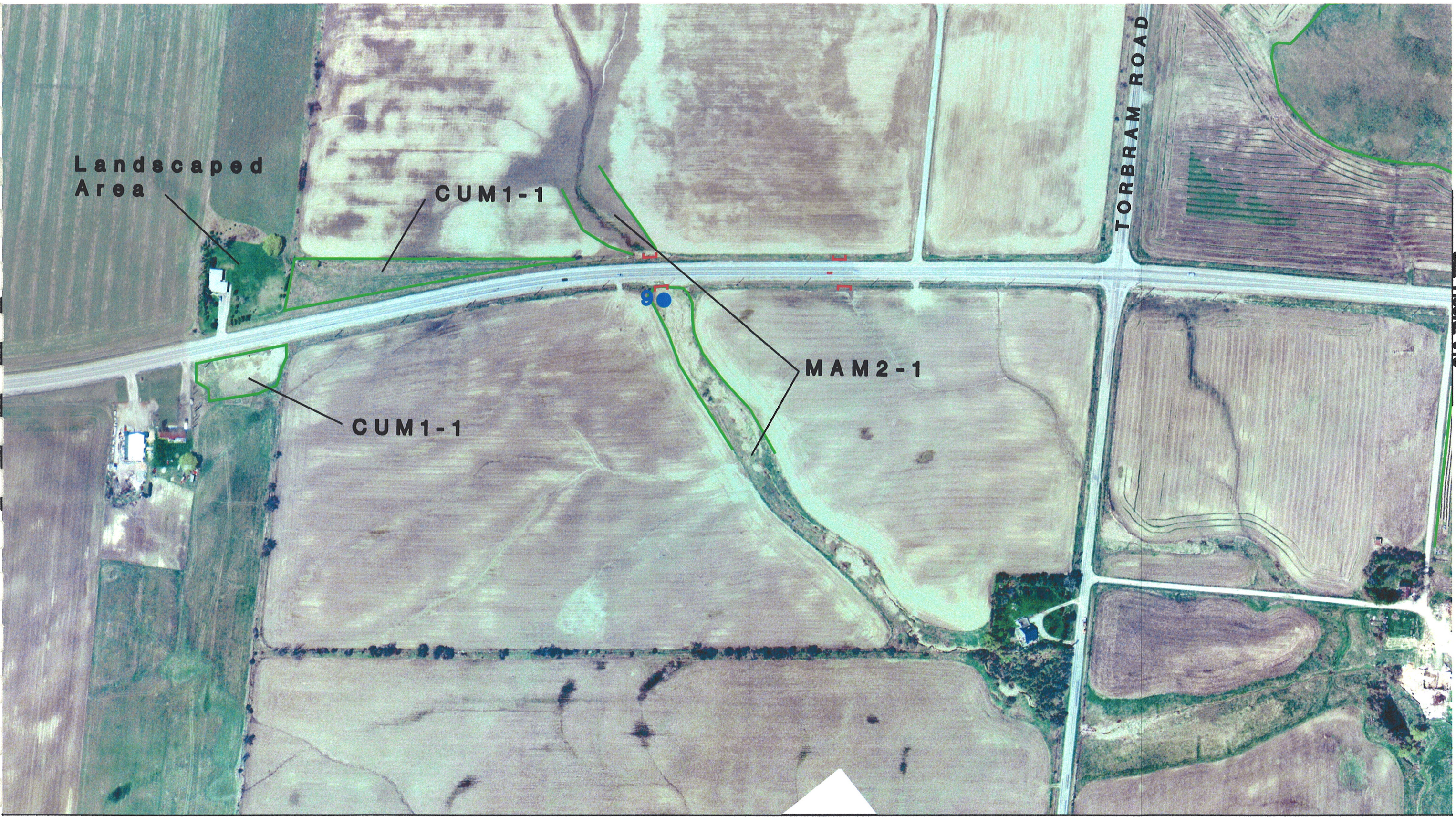
**EXISTING NATURAL FEATURES**

Date: APRIL 2004    Scale: 1:3000    Project No. 60210370    Figure No. **Figure J13**






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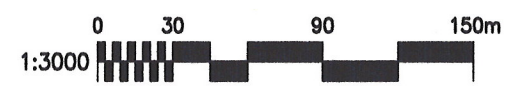
SEE FIGURE J15



**Natural Resource Solutions Inc.**  
*Aquatic, Wetland and Terrestrial Biologists*

VEGETATION UNITS	
Wetland	
MAS2-1	Cattail Mineral Shallow Marsh
MAM2-6	Broad-leaved Sedge Mineral Meadow Marsh
Upland	
CUM1-1	Old Field Meadow Type
CUW	Cultural Woodland
FOM4	White Cedar Mixed Forest
FOM7	White Cedar-Hardwood Mixed Forest
FOD6-1	Sugar Maple-Lowland Ash Forest
FOD8-1	Poplar Deciduous Forest

AQUATIC FEATURES	
	Habitat Assessment Station
	Habitat Assessment and Fish Sampling Station
	Creek Crossing Number (Text Reference Code)



**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY  
 PEEL REGION**

**EXISTING NATURAL FEATURES**

Date:	Scale:	Project No.	Figure No.
APRIL 2004	1:3000	60210370	<b>Figure J14</b>





SEE FIGURE

**Natural Resource Solutions Inc.**

*Aquatic, Wetland and Terrestrial Biologists*

**VEGETATION UNITS**

- Wetland
- MAS2-1 Cattail Mineral Shallow Marsh
- MAM2-6 Broad-leaved Sedge Mineral Meadow Marsh
- Upland
- CUM1-1 Old Field Meadow Type
- CUW Cultural Woodland
- FOM4 White Cedar Mixed Forest
- FOM7 White Cedar-Hardwood Mixed Forest
- FOD6-1 Sugar Maple-Lowland Ash Forest
- FOD8-1 Poplar Deciduous Forest

**AQUATIC FEATURES**

- Habitat Assessment Station
- Habitat Assessment and Fish Sampling Station
- 1 Creek Crossing Number (Text Reference Code)



**MAYFIELD ROAD CLASS ENVIRONMENTAL ASSESSMENT & PRELIMINARY DESIGN STUDY PEEL REGION**

**EXISTING NATURAL FEATURES**

Date: APRIL 2004    Scale: 1:3000    Project No. 60210370    Figure No. **Figure J15**