
Appendix B: Natural Environment Exhibits

Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Highway
- Minor Road
- Parcel
- Watercourse, Intermittent
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody



Notes

1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

September 2016
165000963

Client/Project

Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-1

Title

Watercourse Crossing Locations



\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-12 By: mkras

- Legend**
- 1A** Watercourse Crossing ID
 - ✕ Watercourse Crossing
 - ➔ Flow Direction
 - Road Station
 - ▬ Highway 138 Improvement Area
 - ▬ Constructed Drain
 - ▬ Culvert (with MTO ID label)
 - ▬ Ditch
 - ▬ Highway
 - ▬ Minor Road
 - ▬ Parcel
 - - - Watercourse, Intermittent
 - ▬ Watercourse, Permanent
 - ▭ Conservation Area Administrative Boundary
 - ▭ Municipal Boundary, Upper
 - ▭ Municipal Boundary, Lower
 - ▭ Waterbody

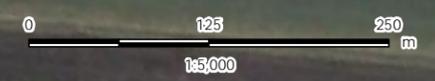


- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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Client/Project
Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-2
Watercourse Crossing Locations



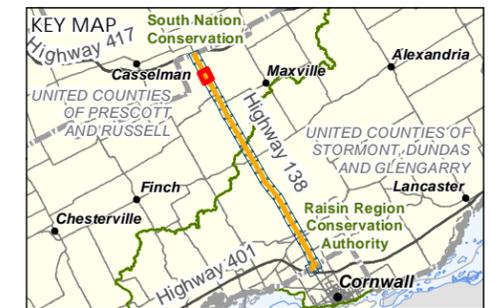
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 Revised: 2016-09-09 By: mkrtaus

5017000 503000 5016500 503500 5014000



Legend

- 1A** Watercourse Crossing ID
- X Watercourse Crossing
- ➔ Flow Direction
- Road Station
- ▬ Highway 138 Improvement Area
- ▬ Constructed Drain
- ▬ Culvert (with MTO ID label)
- ▬ Ditch
- ▬ Highway
- ▬ Minor Road
- ▬ Parcel
- - - Watercourse, Intermittent
- ▬ Watercourse, Permanent
- ▭ Candidate ANSI, Life Science
- ▭ Conservation Area Administrative Boundary
- ▭ Municipal Boundary, Upper
- ▭ Municipal Boundary, Lower



Notes

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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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Client/Project

Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-3

Title

Watercourse Crossing Locations

\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\lic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrtaus

502000 5016000 5015500 502500 5015000



- Legend
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Intermittent
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody



- Notes
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- Ditch identified by Stantec

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Client/Project
Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-4

Title
Watercourse Crossing Locations



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 Revised: 2016-09-09 By: mkrtaus

5014500

504500

5014000

505000 5013500

5014500

504000

503500

5014000

503500

5013500

5013500

503500

5013000

504000

5012500



Legend

- Watercourse Crossing ID
- Road Station
- Highway 138 Improvement Area
- Culvert (with MTO ID label)
- Highway
- Major Road
- Minor Road
- Parcel
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\16\ReportFigures\165000963_EC_Fig02x_Mapbook_20160909.mxd
Revised: 2016-09-09 By: mkr/aus



Notes

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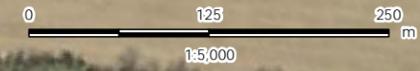
Client/Project

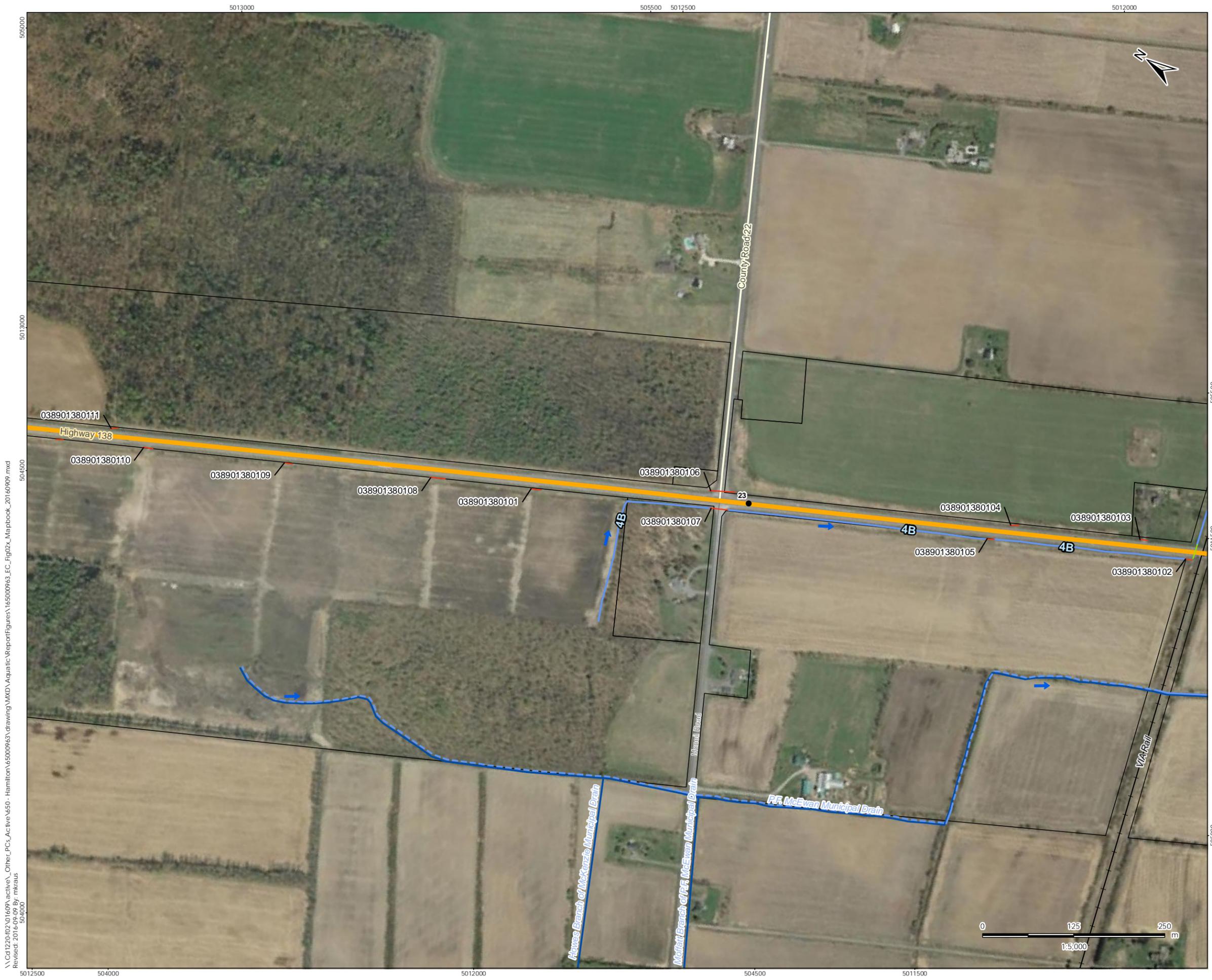
Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-5

Title

Watercourse Crossing Locations





- Legend**
- 1A Watercourse Crossing ID
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Ditch
 - Excluded Culvert
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Railway
 - Watercourse, Intermittent
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower



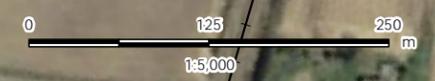
- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2016.
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-6

Title
Watercourse Crossing Locations



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrtaus

506000 5011500 5011000 506500



- Legend
- Watercourse Crossing ID
 - Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Ditch
 - Excluded Culvert
 - Highway
 - Parcel
 - Railway
 - Watercourse, Intermittent
 - Watercourse, Permanent
 - Conservation Area Administrative
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower

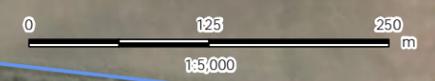


- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2016.
 3. Orthoimagery © First Base Solutions, 2008.
 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- * Ditch identified by Stantec

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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-7
Watercourse Crossing Locations



\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrtaus

5011000 505000 5010500 5010000 505500

506500 5010500 5010000 507000 5009500



- Legend
- 1A** Watercourse Crossing ID
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Culvert (with MTO ID label)
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody

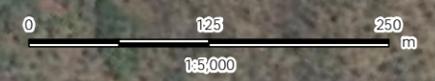


- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-8
Watercourse Crossing Locations



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\lic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkras
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 505500
 5009500
 506000
 509000
 506000

\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\ReportFigures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrtaus



- Legend**
- 1A Watercourse Crossing ID
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody



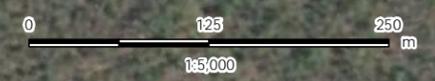
- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-9

Title
Watercourse Crossing Locations



Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Excluded Culvert
- Highway
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody



Notes

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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

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165000963

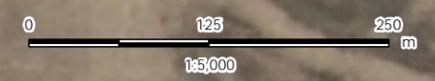
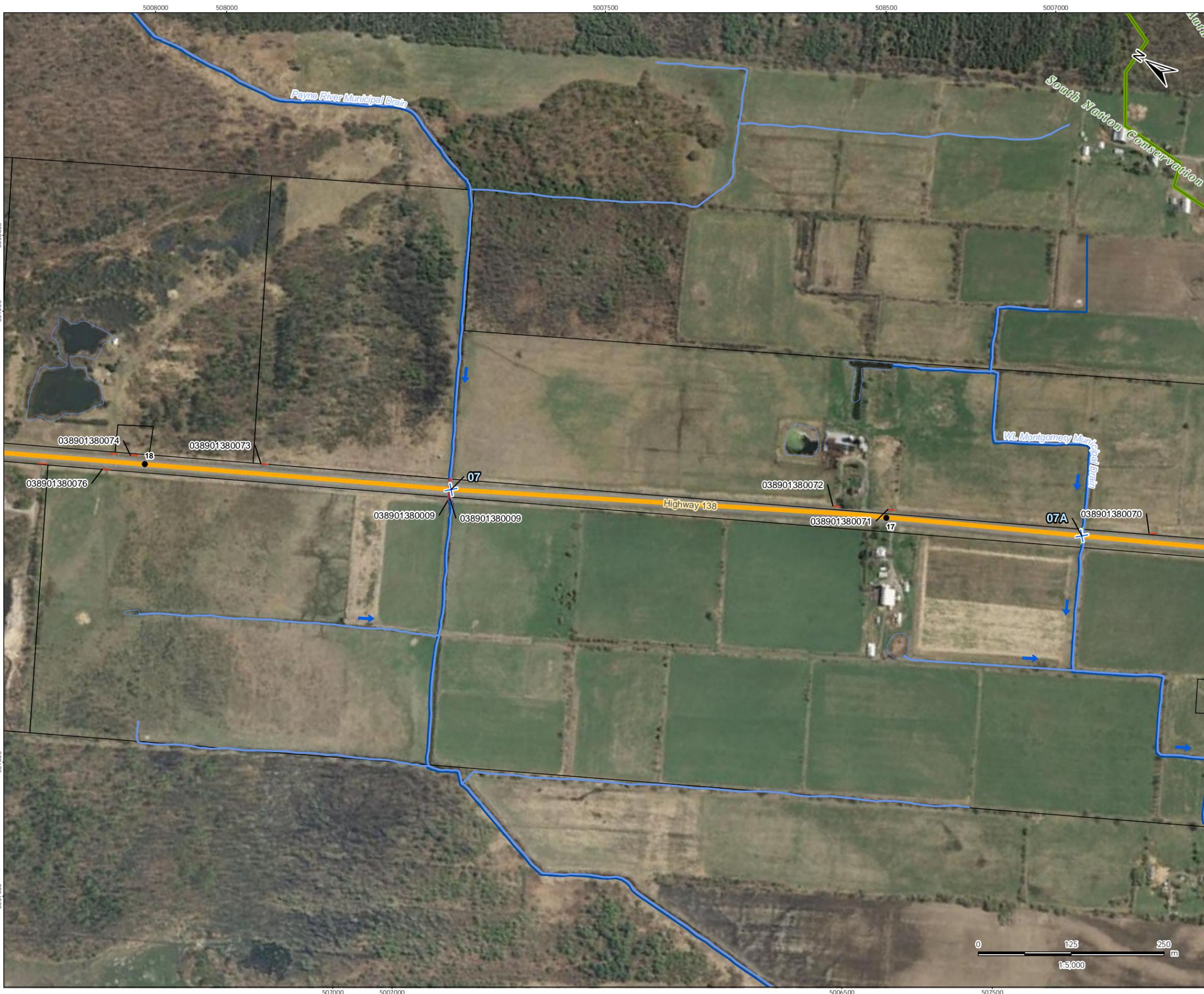
Client/Project

Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-10

Title

Watercourse Crossing Locations



\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus 5007500

- Legend
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Ditch
 - Excluded Culvert
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody



- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
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- Ditch identified by Stantec

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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-11
Watercourse Crossing Locations



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrtaus

508500 508000 507500 506500 506000 505500 505000

507500 506000 505500 508000 505000



- Legend**
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Ditch
 - Excluded Culvert
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Railway
 - Unknown Transmission Line
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody



- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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- Ditch identified by Stantec

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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-12
Watercourse Crossing Locations

\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus
 5005000

Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Highway
- Minor Road
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody
- Wetland, Provincially Significant



- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N
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- Ditch identified by Stantec

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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-13
Watercourse Crossing Locations



\\Cd1220402\016099\active\Other_PCs_active\Hamilton\65000963\drawing\WXD\Aqua\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkras



- Legend**
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Minor Road
 - Parcel
 - Unknown Transmission Line
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody
 - Wetland, Provincially Significant



- Notes**
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- Ditch identified by Stantec

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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-14
Watercourse Crossing Locations

\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus
 5002500



- Legend**
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Minor Road
 - Parcel
 - Unknown Transmission Line
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Waterbody



- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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- Ditch identified by Stantec
- September 2016
165000963

Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-15
Watercourse Crossing Locations

\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkr/aus
 511000
 5001500



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkras



- Legend**
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Minor Road
 - Parcel
 - Unknown Transmission Line
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower



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1. Coordinate System: NAD 1983 UTM Zone 18N
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- Ditch identified by Stantec

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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-16

Title
Watercourse Crossing Locations

Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Ditch
- Highway
- Minor Road
- Parcel
- Unknown Transmission Line
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody



Notes

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- Ditch identified by Stantec

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165000963

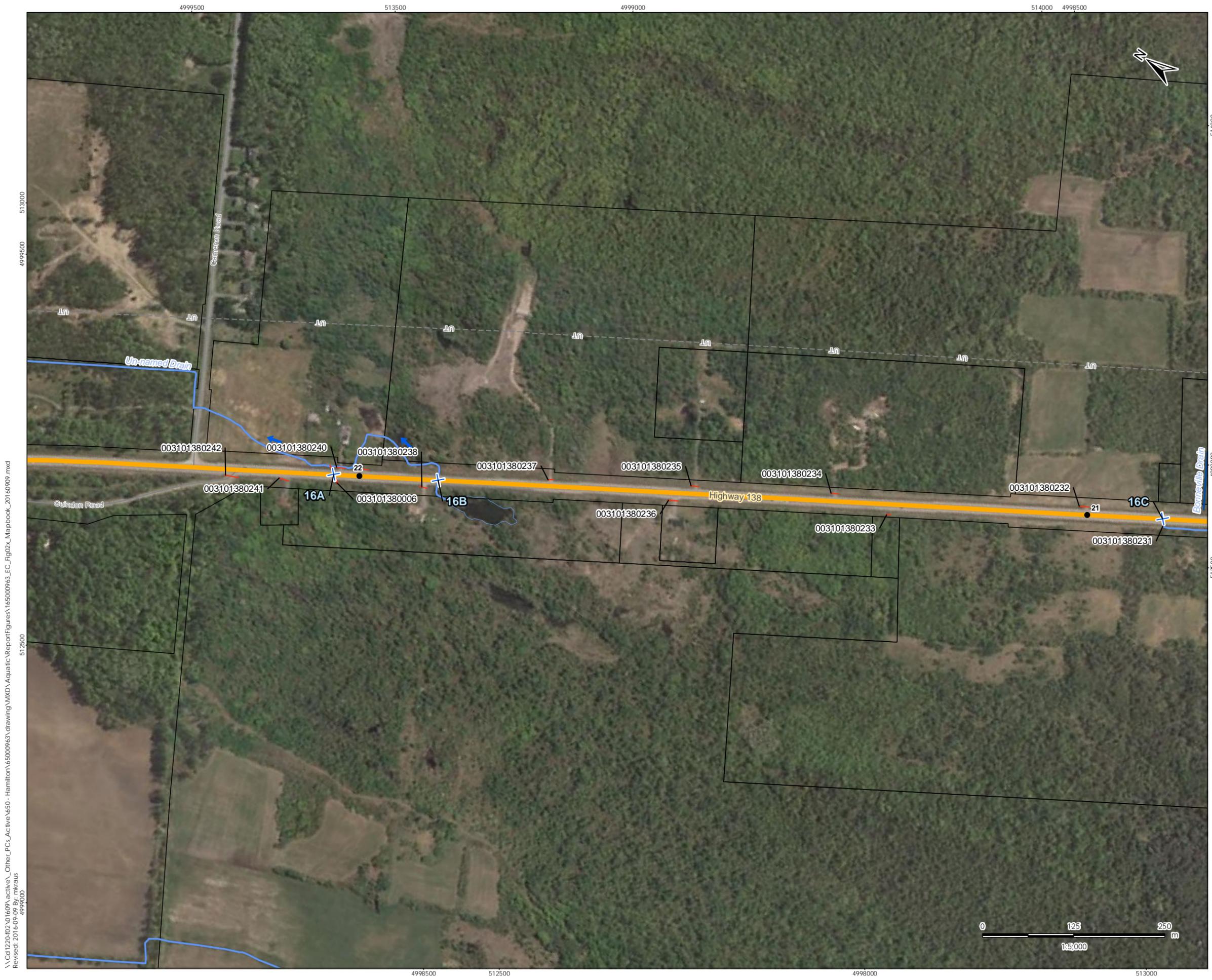
Client/Project

Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-17

Title

Watercourse Crossing Locations



\\Cd1220402\01609A\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus
 4999000

Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Ditch
- Highway
- Minor Road
- Parcel
- Unknown Transmission Line
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower



Notes

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 2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2016.
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- Ditch identified by Stantec

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Client/Project

Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-18

Title

Watercourse Crossing Locations



\\Cd1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus

514000 4998000 514500 4997500

4997000

514500

514000

513500

4998000

513000

513000

4997000

513500

4996500

Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Highway
- Minor Road
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody



Notes

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- Ditch identified by Stantec

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Client/Project

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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-19

Title

**Watercourse Crossing
Locations**



\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkr/aus 496500



- Legend**
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Hydro Line
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower



- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. Watercourse Crossing IDs consistent with Genivar 2010, with additional crossings by Stantec 2016.
- Ditch identified by Stantec

September 2016
165000963

Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-20

Title
Watercourse Crossing Locations



\\Cd1220402\01609A\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtraus

4994500

516500 4994000

4993500



Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Ditch
- Highway
- Major Road
- Minor Road
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody
- Wetland, Provincially Significant

\\Cd1220402\01609A\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\16500963_EC_Fig02x_Mapbook_20160909.mxd
Revised: 2016-09-09 By: mtraus
515000



Notes

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16500963

Client/Project
Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-21
Title
Watercourse Crossing Locations



515000

4993500

515500

4993000

516000

516500

516000

4994500

515500

517000 4993000 4992500 517500



- Legend
- 1A Watercourse Crossing ID
 - X Watercourse Crossing
 - Flow Direction
 - Road Station
 - Highway 138 Improvement Area
 - Constructed Drain
 - Culvert (with MTO ID label)
 - Highway
 - Parcel
 - Watercourse, Permanent
 - Conservation Area Administrative Boundary
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower



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- Ditch identified by Stantec
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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-22
 Title
Watercourse Crossing Locations

\\Cd1220402\016099\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\ic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtkraus

4992500 516000 4992000 516500

Legend

- Watercourse Crossing ID
- Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Highway
- Major Road
- Minor Road
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower

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Revised: 2016-09-09 By: mtraus



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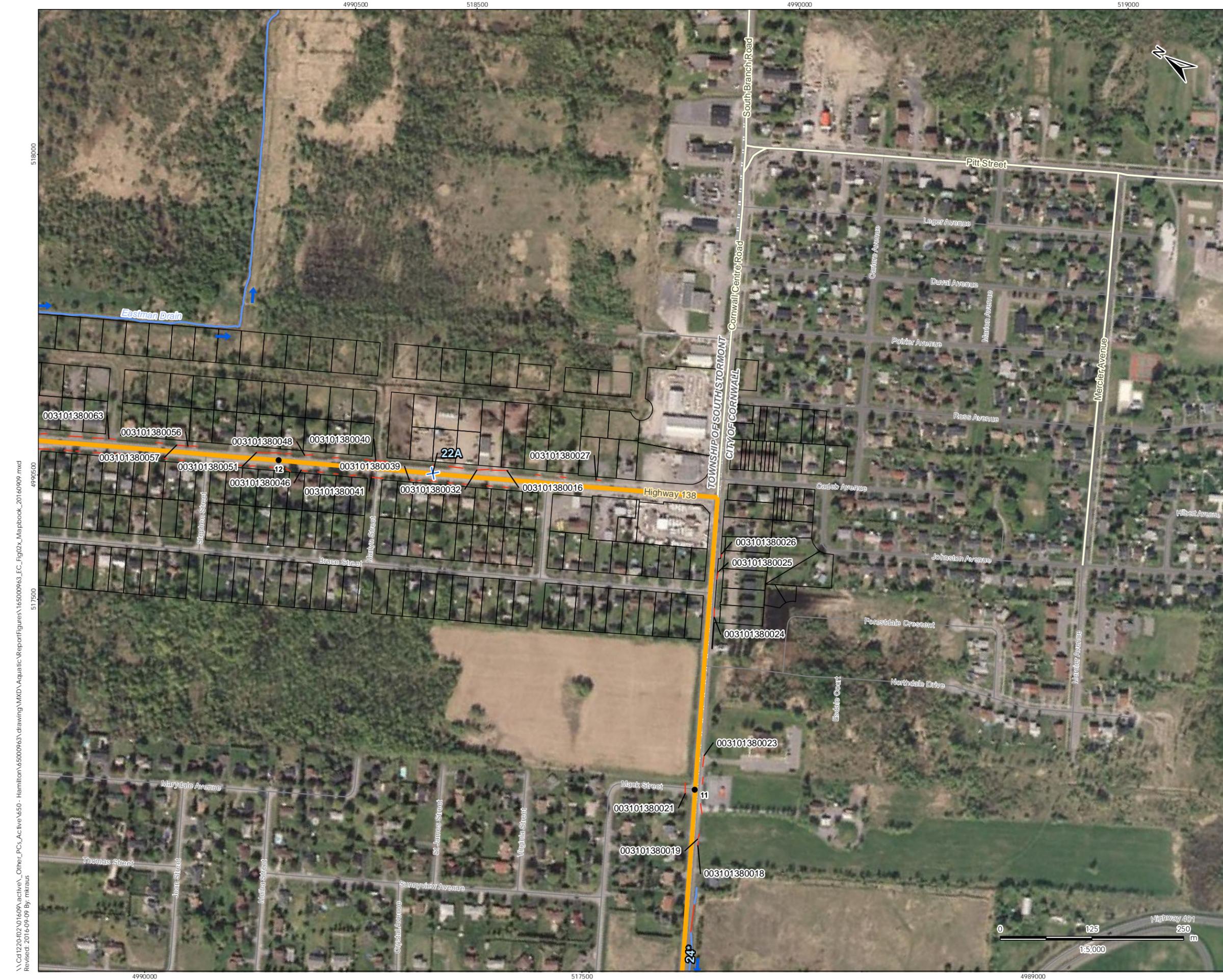
September 2016
165000963

Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-23

Title
**Watercourse Crossing
 Locations**





Legend

- 1A Watercourse Crossing ID
- X Watercourse Crossing
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Ditch
- Highway
- Major Road
- Minor Road
- Parcel
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower



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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 5-24

Title

Watercourse Crossing Locations

\\Cd1220402\01609A\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Aqua\lic\Report\Figures\165000963_EC_Fig02x_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtraus

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 Revised: 2016-09-09 By: mtkraus
 4989500



Legend

- 1A Watercourse Crossing ID
- Flow Direction
- Road Station
- Highway 138 Improvement Area
- Constructed Drain
- Culvert (with MTO ID label)
- Ditch
- Highway
- Major Road
- Minor Road
- Parcel
- Unknown Transmission Line
- Watercourse, Permanent
- Conservation Area Administrative Boundary
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody



Notes

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- Ditch identified by Stantec

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Client/Project

Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 5-25

Title

Watercourse Crossing Locations



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - - - Unknown Transmission Line
 - Watercourse, Permanent
 - ▨ Breeding Bird Survey Location
 - ▭ Municipal Boundary, Upper
 - Lot
 - ▭ Municipal Boundary, Lower
 - Waterbody

- CGL4 - Recreational
- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- DIST - Disturbed
- MAM - Meadow Marsh
- ME - Meadow
- MEG - Graminoid Meadow
- OAG - Open Agriculture
- SWT - Thicket Swamp
- TAGM5 - Fencerow
- WOM - Mixed Woodland



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Client/Project
Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

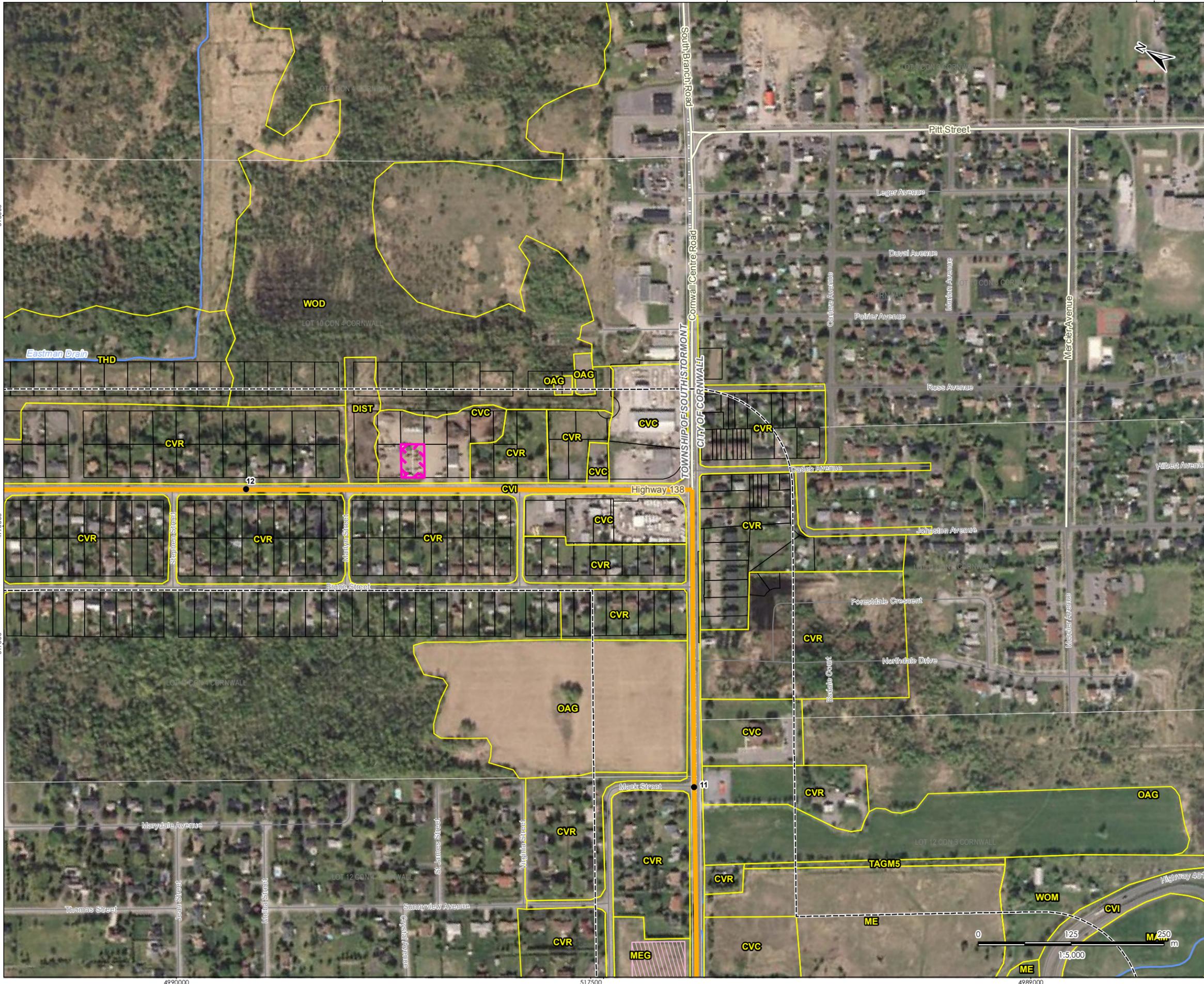
Exhibit 6-1

Title

Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus

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 Revised: 2016-09-09 By: mtraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - ▨ Breeding Bird Survey Location
 - Municipal Boundary, Upper
 - ▨ Land Access Granted (201606715)
 - Lot
 - Municipal Boundary, Lower

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- DIST - Disturbed
- MAM - Meadow Marsh
- ME - Meadow
- MEG - Graminoid Meadow
- OAG - Open Agriculture
- TAGM5 - Fencerow
- THD - Deciduous Thicket
- WOD - Deciduous Woodland
- WOM - Mixed Woodland

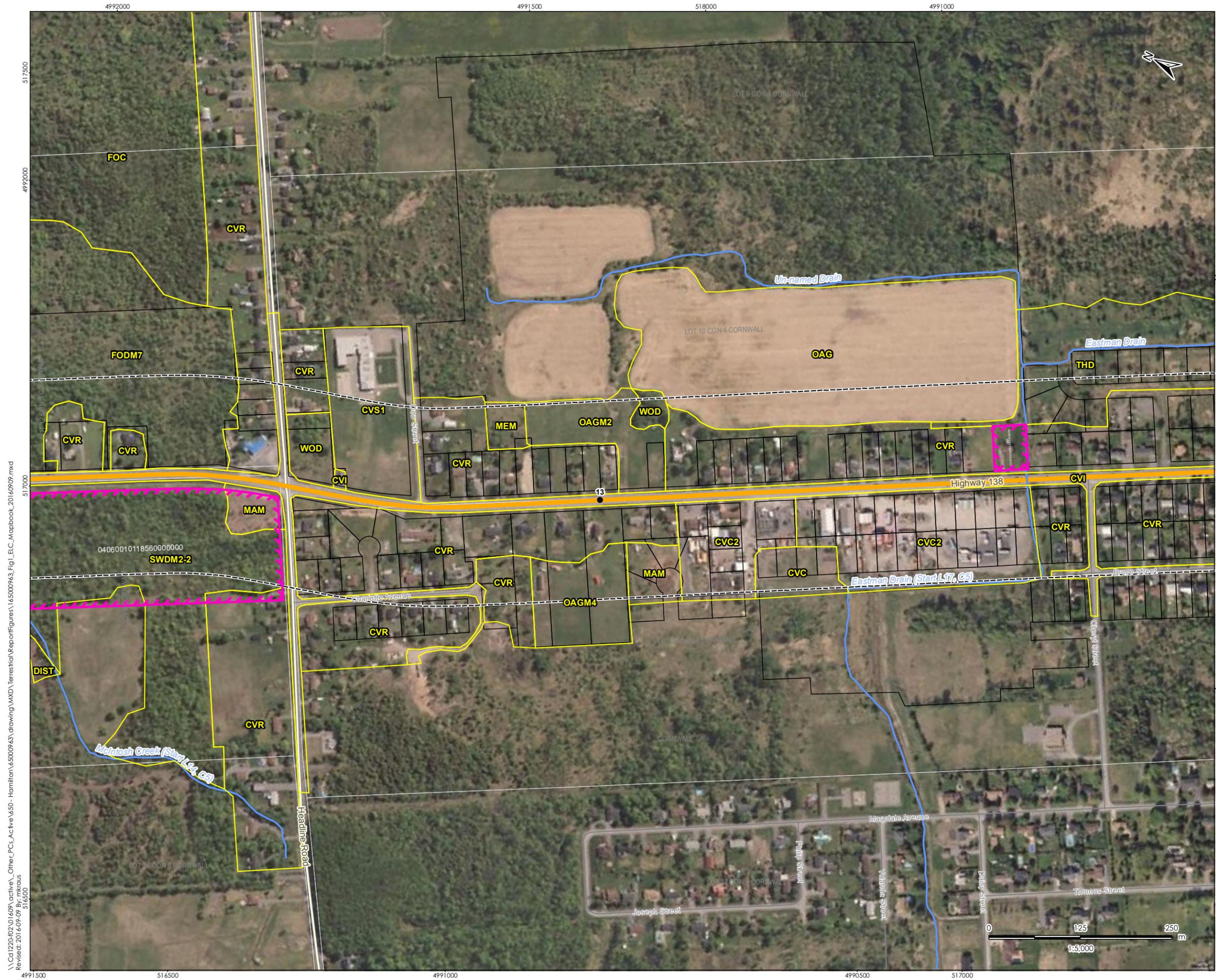


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 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-2
Ecological Land Classification



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201 606715)
 - Lot
 - Municipal Boundary, Lower

- CVC - Commercial and Institutional
- CVC2 - Light Industry
- CVI - Transportation and Utilities
- CVR - Residential
- CVS1 - Education
- FOC - Coniferous Forest
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- MAM - Meadow Marsh
- MEM - Mixed Meadow
- OAG - Open Agriculture
- OAGM2 - Perennial Cover Crops
- OAGM4 - Open Pasture
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- THD - Deciduous Thicket
- WOD - Deciduous Woodland



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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-3
Title
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus
 516500

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Legend

- Road Station
- Highway 138 Improvement Area
- - - 120 m Zone of Investigation
- Ecological Land Classification
- Constructed Drain
- Highway
- Parcel
- Watercourse, Permanent
- Municipal Boundary, Upper
- Land Access Granted (201606715)
- Lot
- Municipal Boundary, Lower

- CVI - Transportation and Utilities
- CVR - Residential
- DIST - Disturbed
- FOC - Coniferous Forest
- FODM6 - Fresh - Moist Sugar Maple Deciduous Forest Ecosite
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- MAM - Meadow Marsh
- OAG - Open Agriculture
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- THD - Deciduous Thicket
- WOD - Deciduous Woodland



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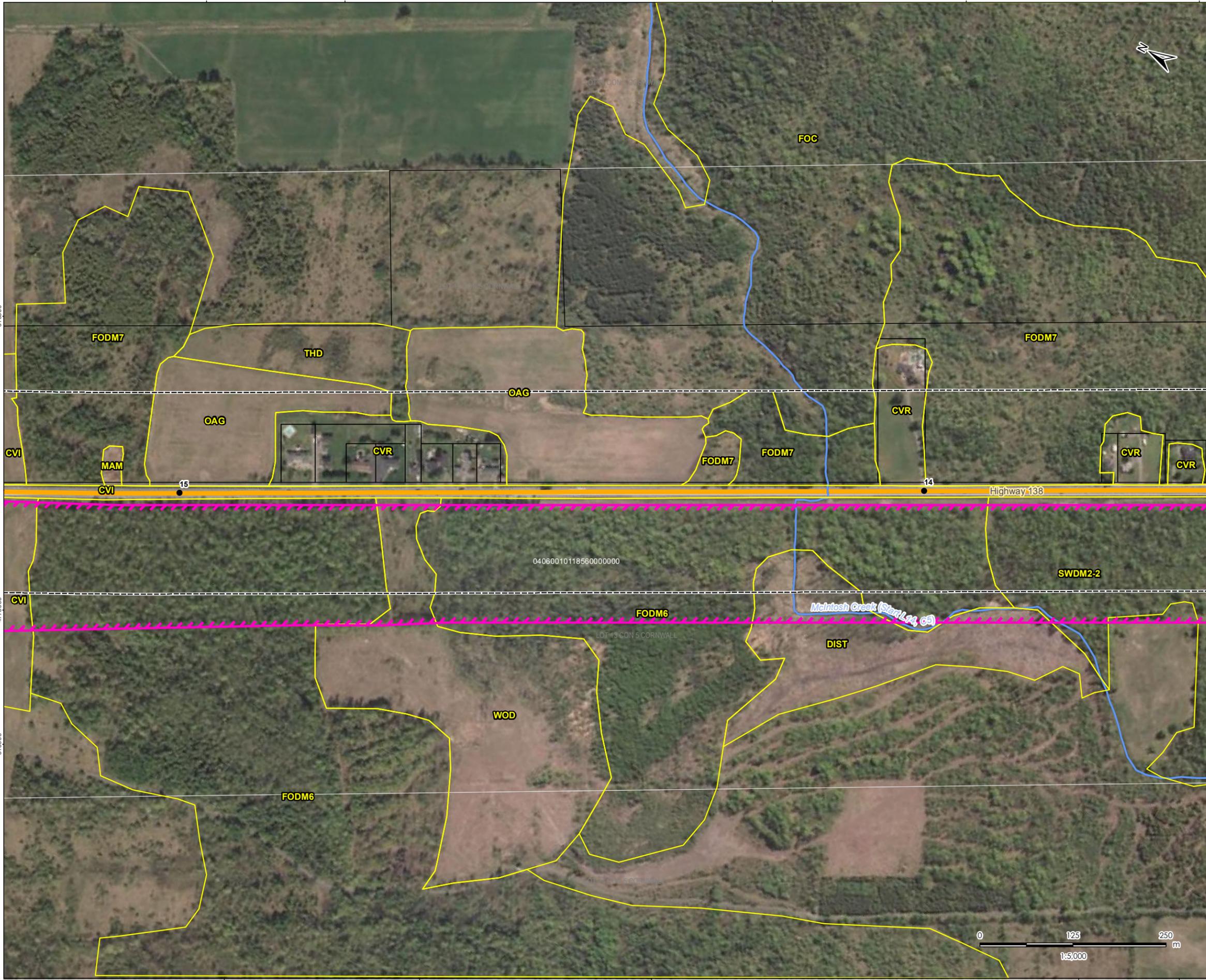
September 2016
165000963

Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-4

Ecological Land Classification

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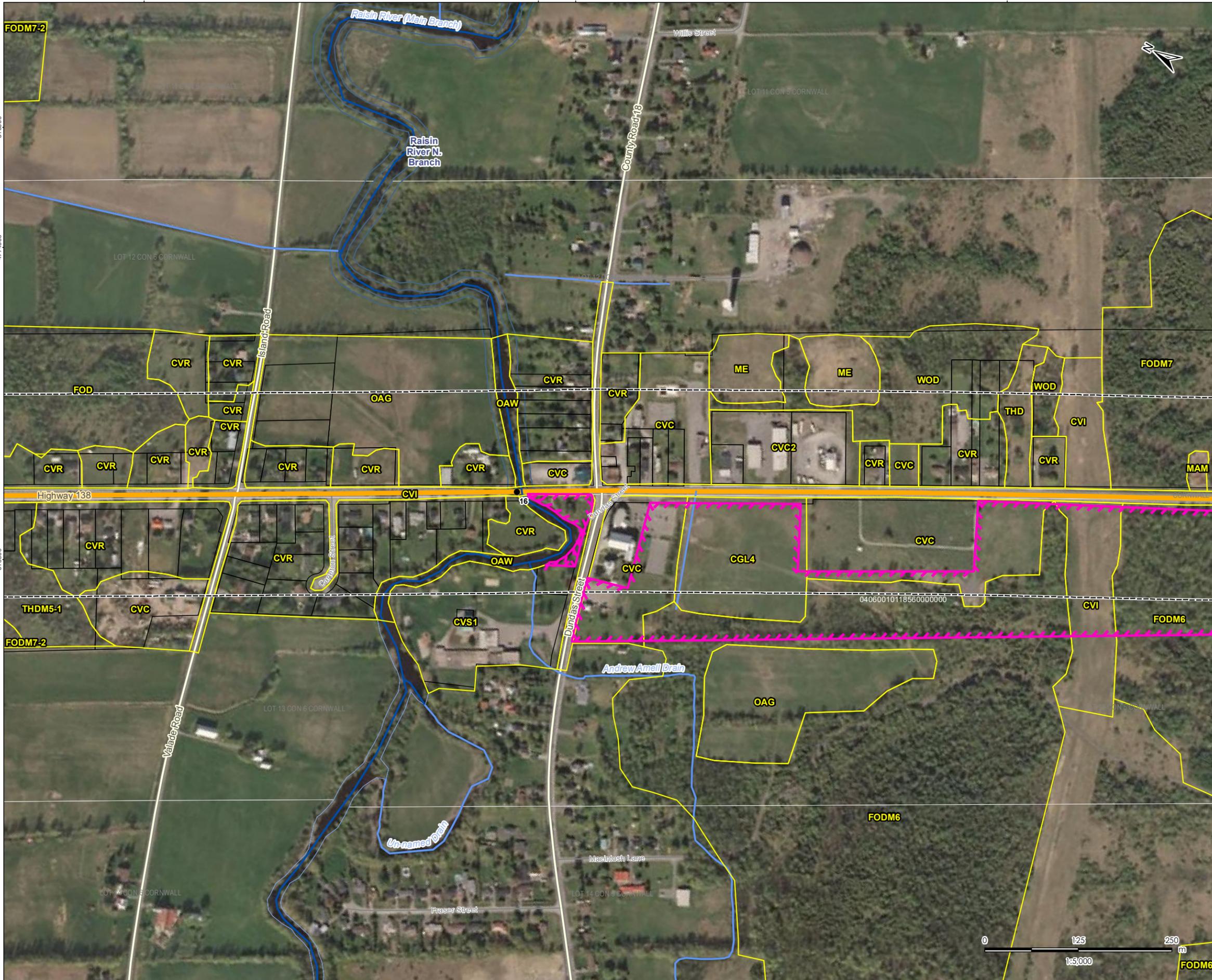


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514500 4994000

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Legend

- Road Station
- Highway 138 Improvement Area
- - - 120 m Zone of Investigation
- Ecological Land Classification
- Constructed Drain
- Ditch
- Highway
- Major Road
- Minor Road
- Parcel
- Watercourse, Permanent
- Municipal Boundary, Upper
- Municipal Boundary, Lower
- Waterbody
- Wetland, Provincially Significant
- Land Access Granted (201 606715)
- Lot

- CGL4 - Recreational
- CVC - Commercial and Institutional
- CVC2 - Light Industry
- CVI - Transportation and Utilities
- CVR - Residential
- CVS1 - Education
- FOD - Deciduous Forest
- FODM6 - Fresh - Moist Sugar Maple Deciduous Forest Ecosite
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FODM7-2 - Fresh - Moist Green Ash - Hardwood Lowland Deciduous Forest Type
- MAM - Meadow Marsh
- ME - Meadow
- OAG - Open Agriculture
- OAW - Open water
- THD - Deciduous Thicket
- THDM5-1 - Gray Dogwood Deciduous Thicket Type
- WOD - Deciduous Woodland



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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-5
Ecological Land Classification



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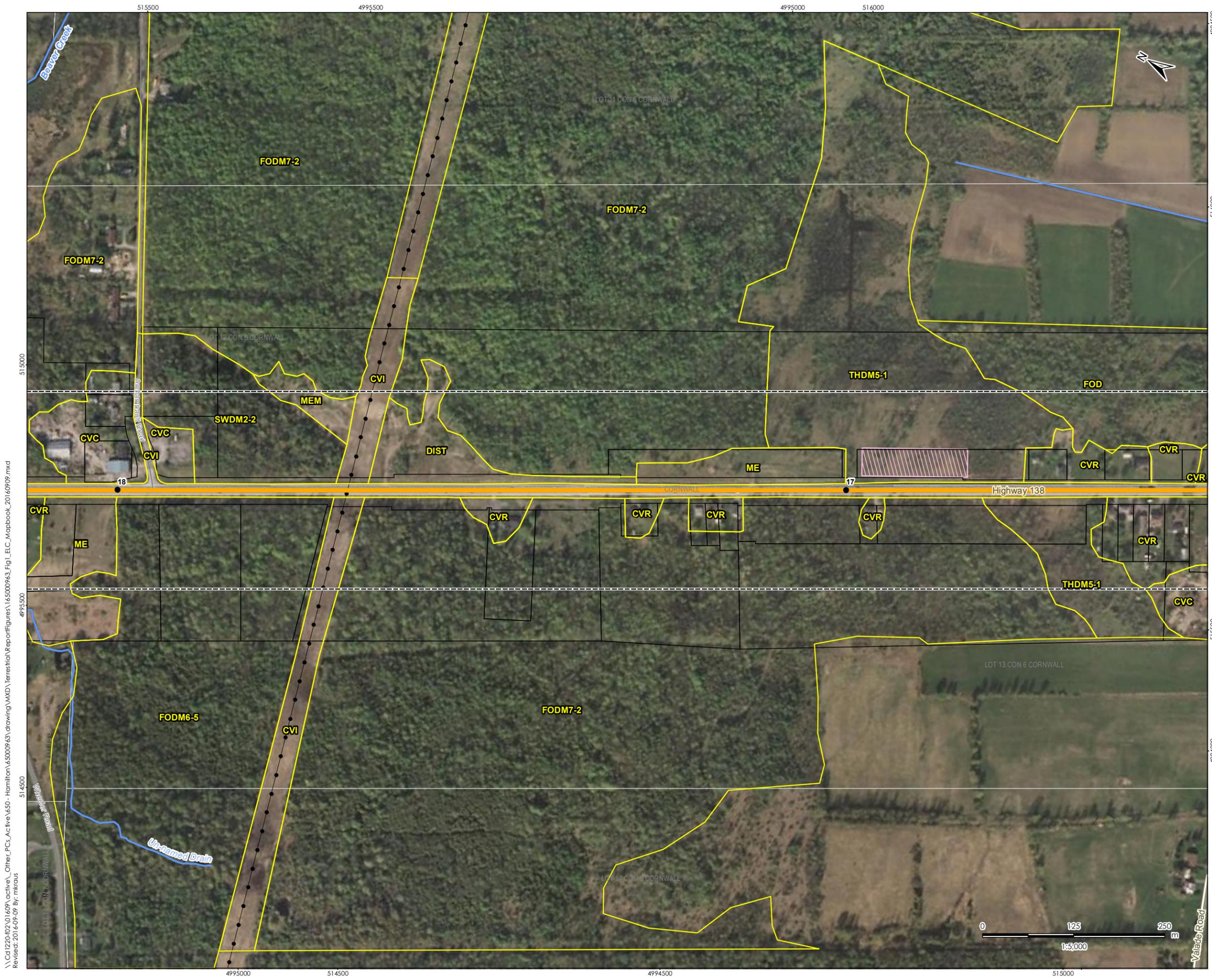
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4994500

4994000



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Hydro Line
 - Watercourse, Permanent
 - ▨ Breeding Bird Survey Location
 - Municipal Boundary, Upper
 - Lot
 - Municipal Boundary, Lower

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- DIST - Disturbed
- FOD - Deciduous Forest
- FODM6-5 - Fresh - Moist Sugar Maple - Hardwood Deciduous Forest Type
- FODM7-2 - Fresh - Moist Green Ash - Hardwood Lowland Deciduous Forest Type
- ME - Meadow
- MEM - Mixed Meadow
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- THDM5-1 - Gray Dogwood Deciduous Thicket Type



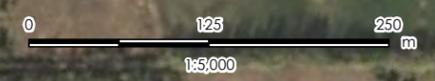
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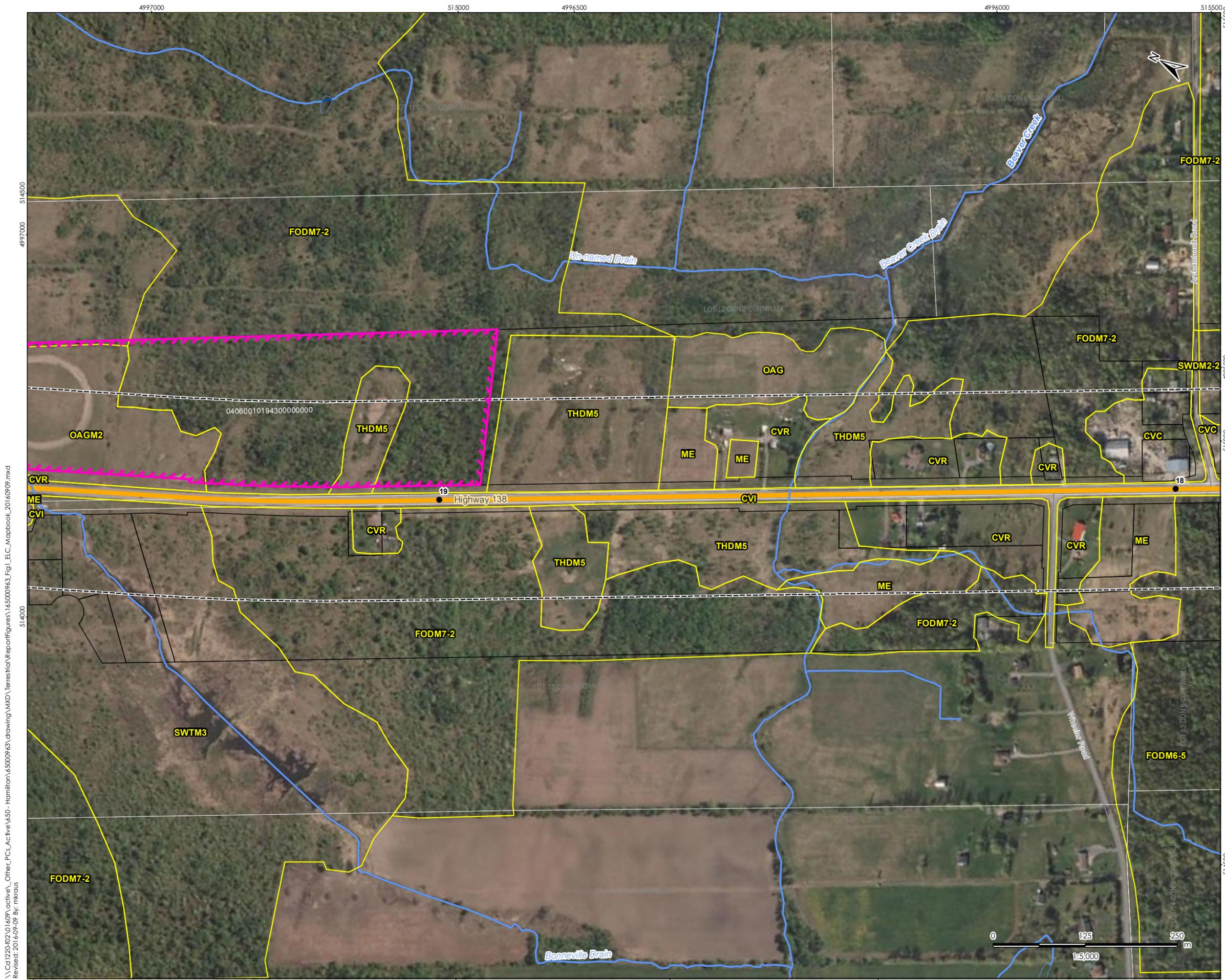
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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-6

Title
Ecological Land Classification



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- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Municipal Boundary, Lower
 - Lot
 - Land Access Granted (201606715)
 - Waterbody

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- FODM6-5 - Fresh - Moist Sugar Maple - Hardwood Deciduous Forest Type
- FODM7-2 - Fresh - Moist Green Ash - Hardwood Lowland Deciduous Forest Type
- ME - Meadow
- OAG - Open Agriculture
- OAGM2 - Perennial Cover Crops
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- SWTM3 - Willow Mineral Deciduous Thicket Swamp Ecosite
- THDM5 - Fresh - Moist Deciduous Thicket Ecosite



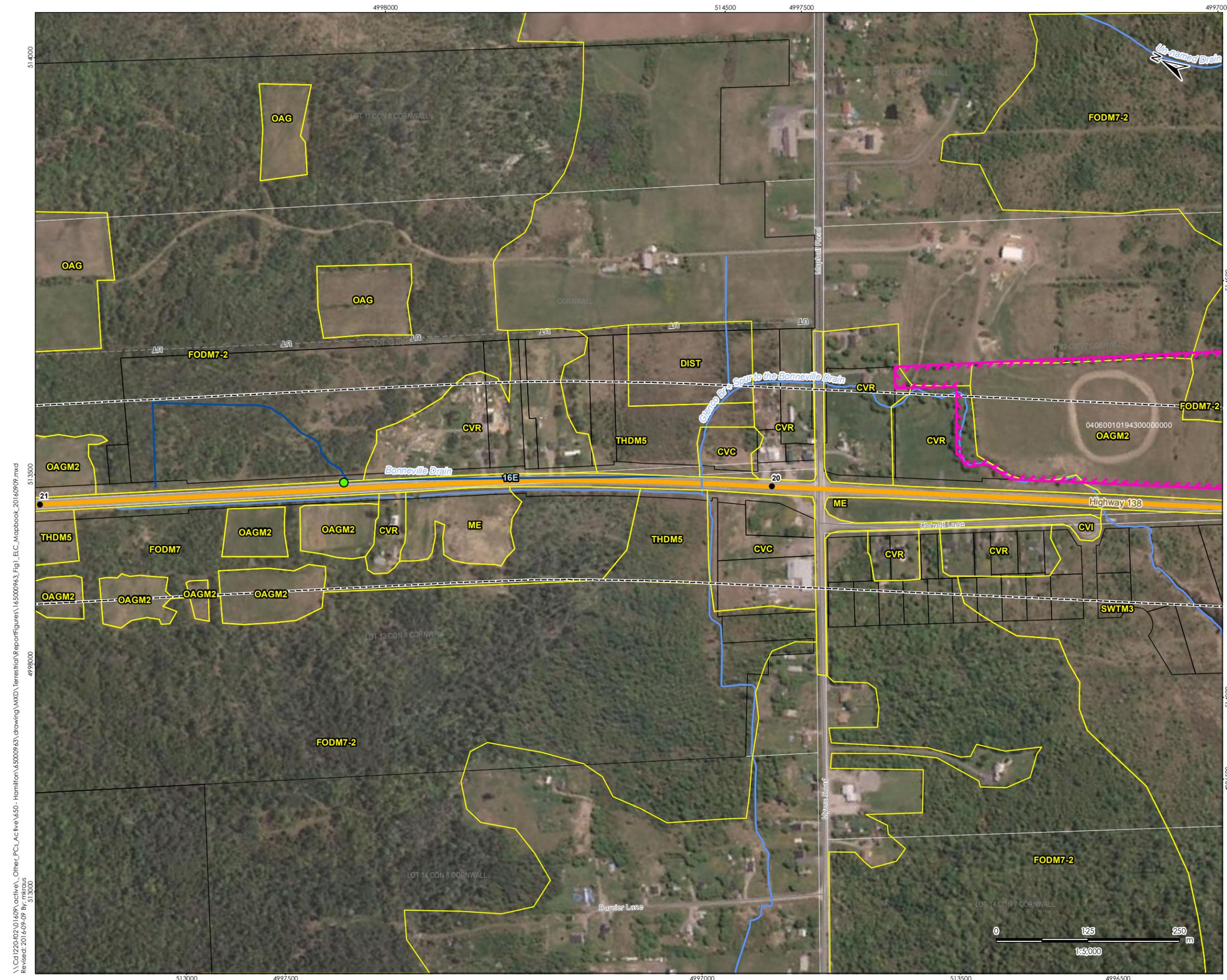
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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-7
Title
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - UT- Unknown Transmission Line
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201606715)
 - Lot
 - Municipal Boundary, Lower

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- DIST - Disturbed
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FODM7-2 - Fresh - Moist Green Ash - Hardwood Lowland Deciduous Forest Type
- ME - Meadow
- OAG - Open Agriculture
- OAGM2 - Perennial Cover Crops
- SWTM3 - Willow Mineral Deciduous Thicket Swamp Ecosite
- THDM5 - Fresh - Moist Deciduous Thicket Ecosite



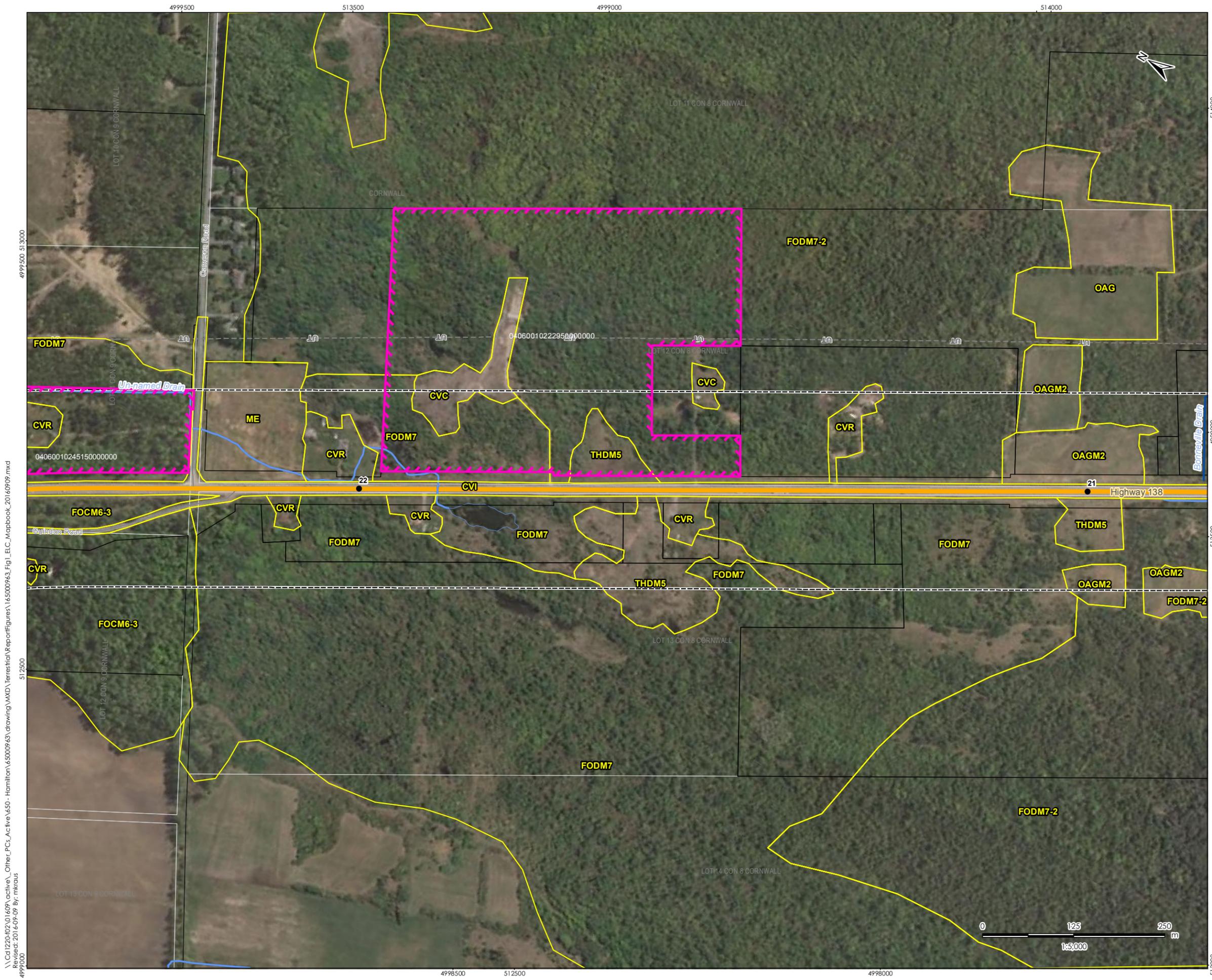
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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-8
Title
Ecological Land Classification

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 Revised: 2016-09-09 By: mtkraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - UT- Unknown Transmission Line
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201 606715)
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- FOCM6-3 - Dry - Fresh Scotch Pine Naturalized Coniferous Plantation Type
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FODM7-2 - Fresh - Moist Green Ash - Hardwood Lowland Deciduous Forest Type
- ME - Meadow
- OAG - Open Agriculture
- OAGM2 - Perennial Cover Crops
- THDM5 - Fresh - Moist Deciduous Thicket Ecosite



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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-9

Title

Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus
 4999000

Legend

- Road Station
- Highway 138 Improvement Area
- - - 120 m Zone of Investigation
- Ecological Land Classification
- Constructed Drain
- Highway
- Minor Road
- Parcel
- UT- Unknown Transmission Line
- Watercourse, Permanent
- Municipal Boundary, Upper
- Land Access Granted (201 606715)
- Lot
- Municipal Boundary, Lower

- CVI - Transportation and Utilities
- CVR - Residential
- FOCM6 - Naturalized Coniferous Plantation
- FOCM6-3 - Dry - Fresh Scotch Pine Naturalized Coniferous Plantation Type
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FOMM2-2 - Dry - Fresh White Pine - Sugar Maple Mixed Forest Type
- MAM - Meadow Marsh
- OAGM2 - Perennial Cover Crops
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- THD - Deciduous Thicket
- WODM5-1 - Fresh - Moist Poplar Deciduous Woodland Type



Notes

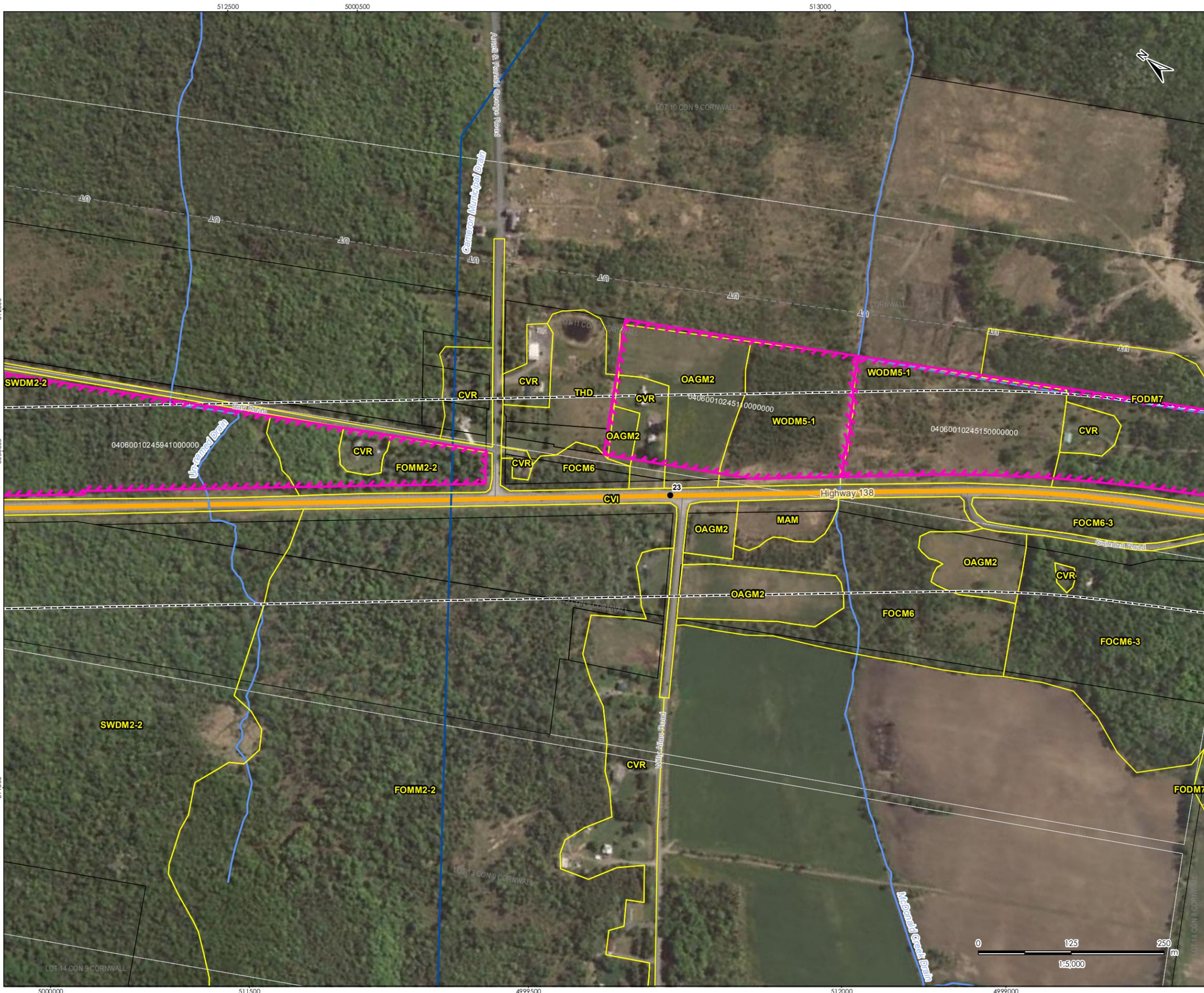
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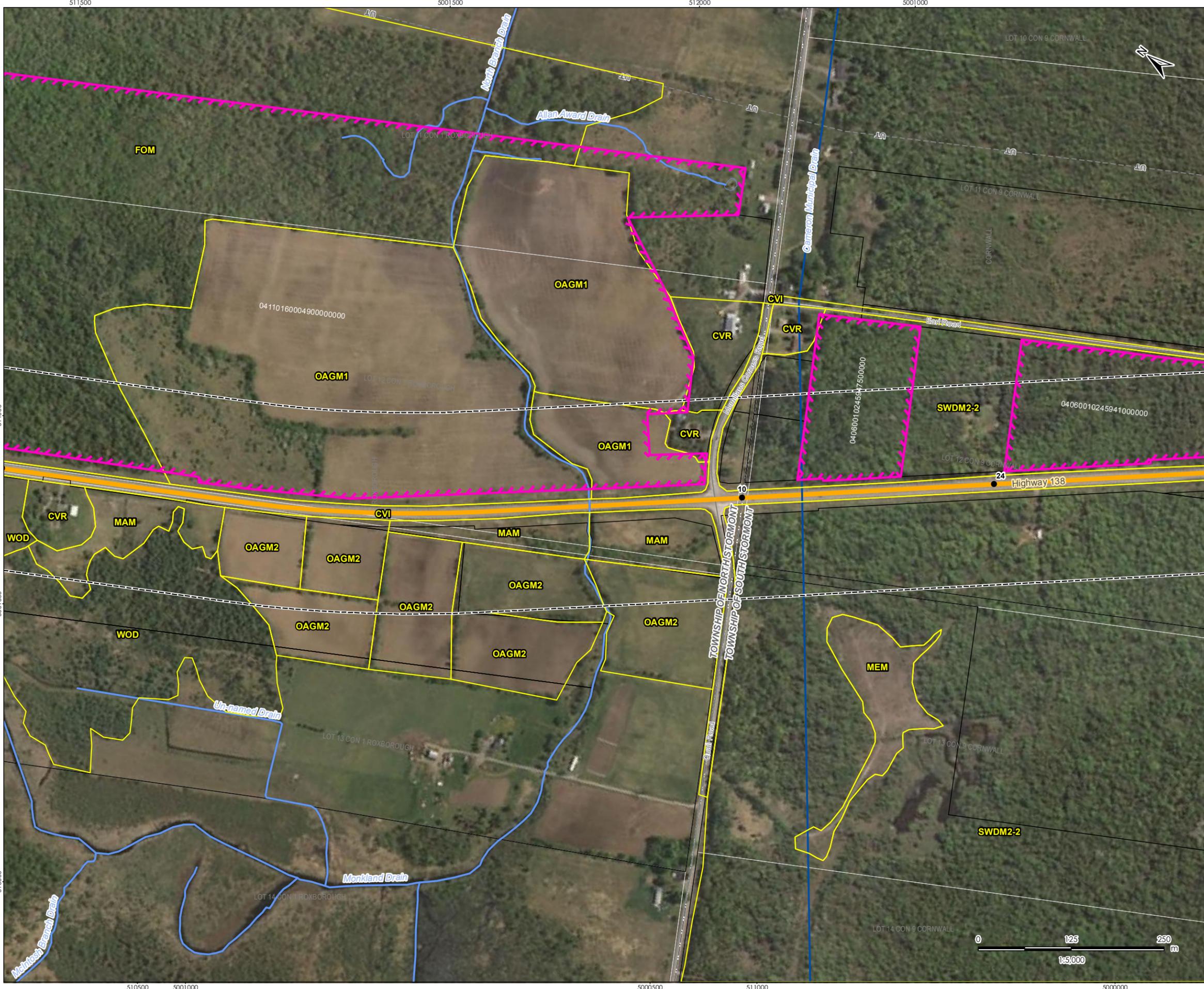
Client/Project
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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-10

Title
Ecological Land Classification



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 Revised: 2016-09-09 By: mkrtaus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - UT- Unknown Transmission Line
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201 606715)
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVI - Transportation and Utilities
- CVR - Residential
- FOM - Mixed Forest
- MAM - Meadow Marsh
- MEM - Mixed Meadow
- OAGM1 - Annual Row Crops
- OAGM2 - Perennial Cover Crops
- SWDM2-2 - Green Ash Mineral Deciduous Swamp Type
- WOD - Deciduous Woodland



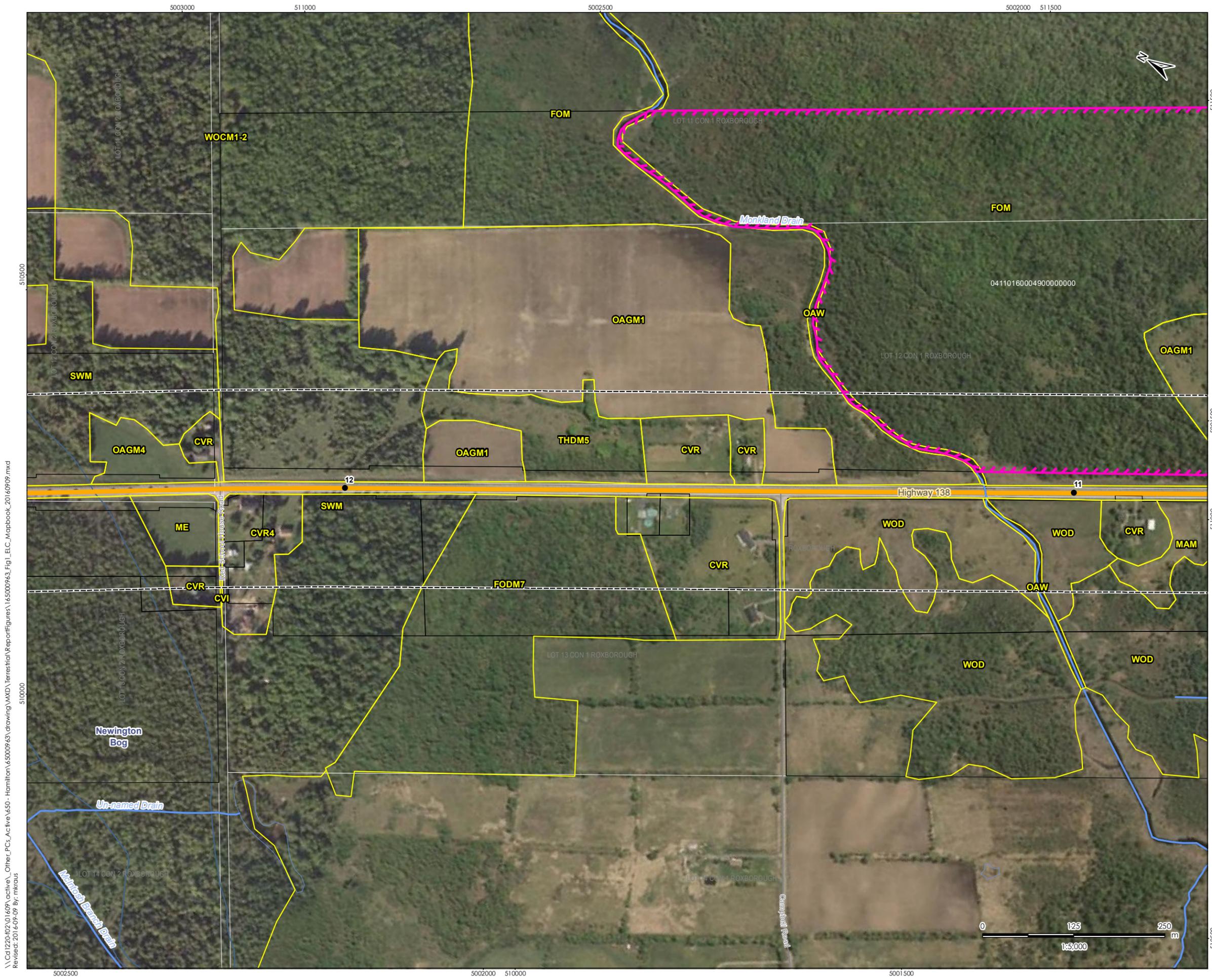
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Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-11
Title
Ecological Land Classification

\\Ca1220402\01609\active\Other_PCs_Active\650 - Hamilton\65000963\drawing\WXD\Terrestrial\Report\Figures\165000963_Fig_11_ELC_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mkrus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201606715)
 - Lot
 - - - Municipal Boundary, Lower
 - Waterbody
 - Wetland, Provincially Significant

- CVI - Transportation and Utilities
- CVR - Residential
- CVR4 - Rural Property
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FOM - Mixed Forest
- MAM - Meadow Marsh
- ME - Meadow
- OAGM1 - Annual Row Crops
- OAGM4 - Open Pasture
- OAW - Open water
- SWM - Mixed Swamp
- THDM5 - Fresh - Moist Deciduous Thicket Ecosite
- WOCM1-2 - Dry - Fresh White Cedar Coniferous Woodland Type
- WOD - Deciduous Woodland



- Notes**
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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

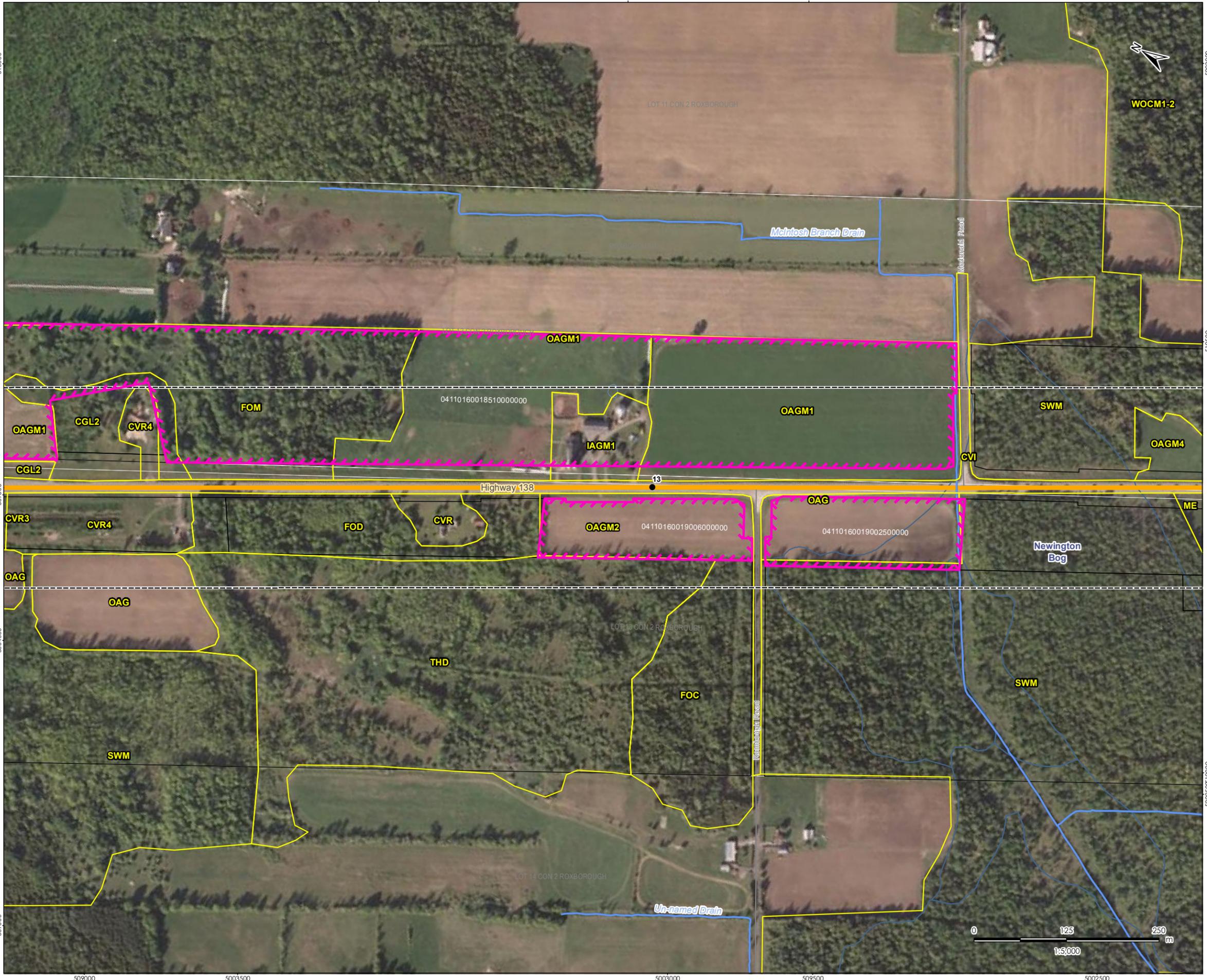
Exhibit 6-12

Title

Ecological Land Classification

\\Ca1220402\01609\active\Other_PCs\Active\650 - Hamilton\65000963\drawing\XDX\Terrestrial\Report\Figures\165000963_Fig1_ELC_Mapbook_20160909.mxd
 Revised: 2016-09-09 By: mtraus

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 Revised: 2016-09-09 By: mtraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - - - Municipal Boundary, Upper
 - Land Access Granted (201606715)
 - Lot
 - - - Municipal Boundary, Lower
 - Waterbody
 - Wetland, Provincially Significant

- CGL2 - Parkland
- CVI - Transportation and Utilities
- CVR - Residential
- CVR3 - Single Family Residential
- CVR4 - Rural Property
- FOC - Coniferous Forest
- FOD - Deciduous Forest
- FOM - Mixed Forest
- IAGM1 - Agricultural Buildings
- ME - Meadow
- OAG - Open Agriculture
- OAGM1 - Annual Row Crops
- OAGM2 - Perennial Cover Crops
- OAGM4 - Open Pasture
- SWM - Mixed Swamp
- THD - Deciduous Thicket
- WOCM1-2 - Dry - Fresh White Cedar Coniferous Woodland Type



- Notes**
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16500943

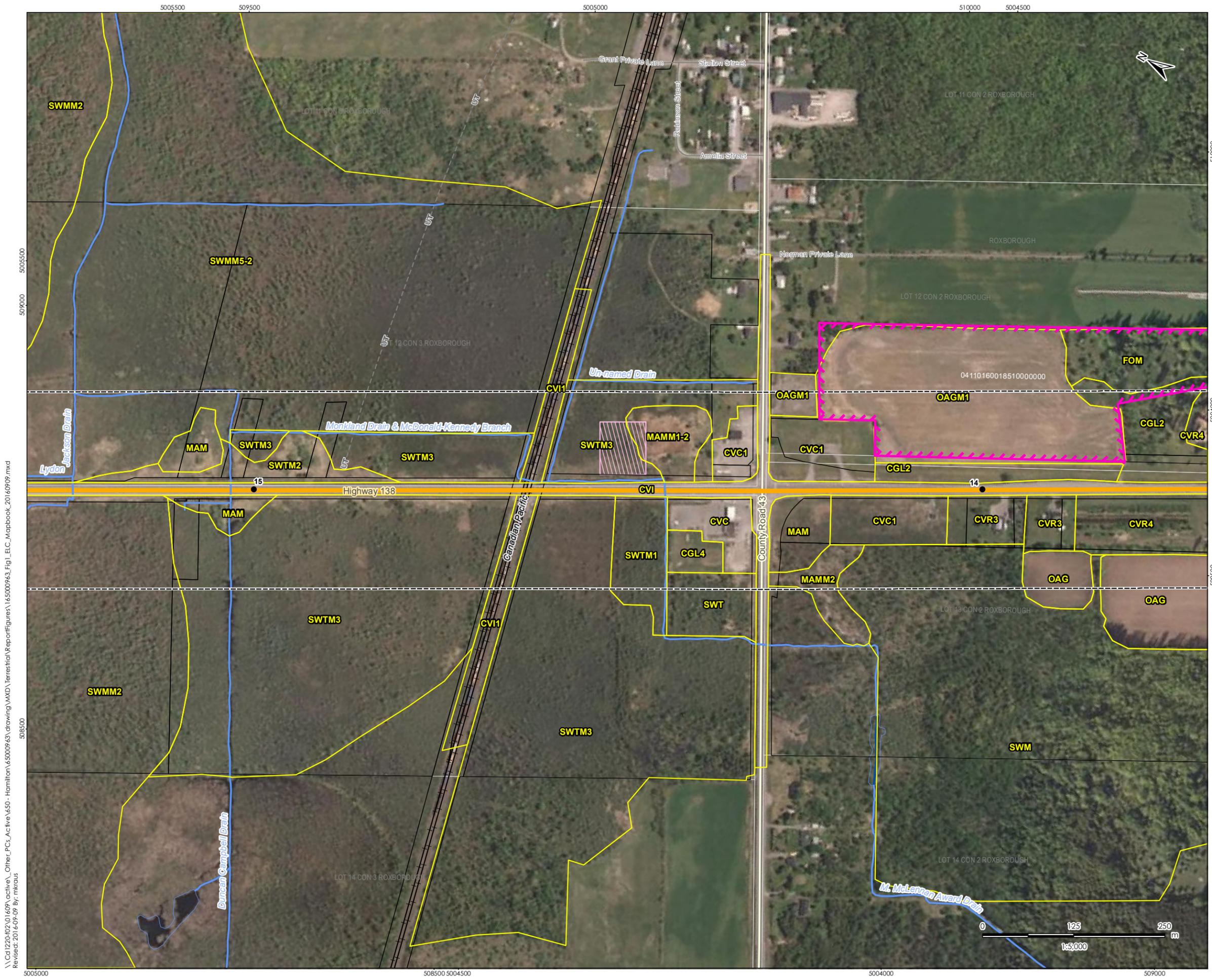
Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-13

Title

Ecological Land Classification





- Legend**
- Road Station
 - Highway 138 Improvement Area
 - ⬜ 120 m Zone of Investigation
 - ⬜ Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - UT- Unknown Transmission Line
 - Railway
 - Watercourse, Permanent
 - ▨ Breeding Bird Survey Location
 - ⬜ Municipal Boundary, Upper
 - ▨ Land Access Granted (201 606715)
 - ⬜ Lot
 - ⬜ Municipal Boundary, Lower
 - ⬜ Waterbody



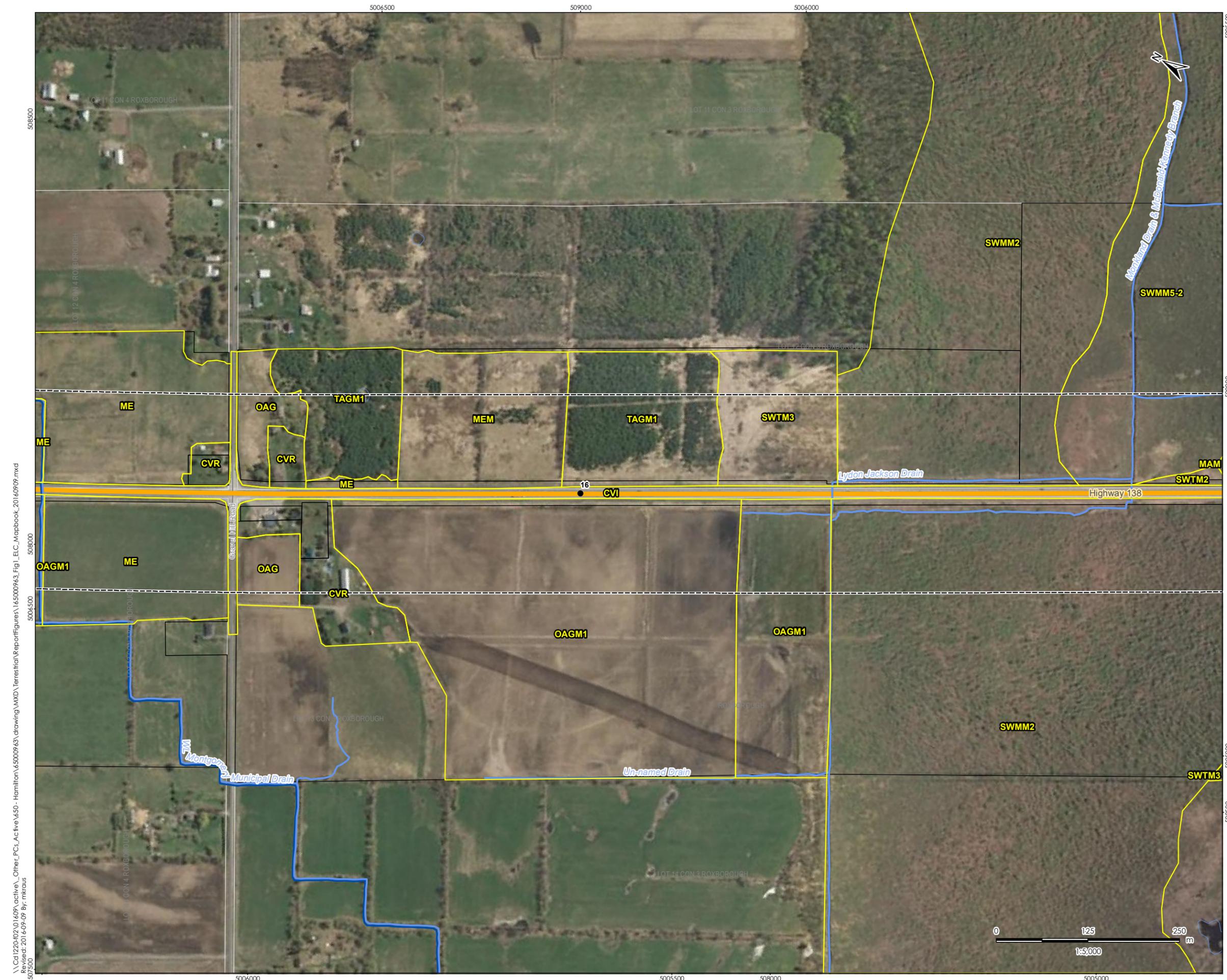
- Notes**
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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-14
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVI - Transportation and Utilities
- CVR - Residential
- MAM - Meadow Marsh
- ME - Meadow
- MEM - Mixed Meadow
- OAG - Open Agriculture
- OAGM1 - Annual Row Crops
- SWMM2 - Maple Mineral Mixed Swamp Ecosite
- SWMM5-2 - Tamarack - Hardwood Mineral Mixed Swamp Type
- SWTM2 - Dogwood Mineral Deciduous Thicket Swamp Ecosite
- SWTM3 - Willow Mineral Deciduous Thicket Swamp Ecosite
- TAGM1 - Coniferous Plantation



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Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-15

Title
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus

Legend

- Midland Painted Turtle Roadkill
- Road Station
- Highway 138 Improvement Area
- 120 m Zone of Investigation
- Ecological Land Classification
- Constructed Drain
- Highway
- Parcel
- Watercourse, Permanent
- Municipal Boundary, Upper
- Lot
- Municipal Boundary, Lower
- Waterbody

- CVC4 - Extraction
- CVI - Transportation and Utilities
- CVR4 - Rural Property
- FOC - Coniferous Forest
- FOD - Deciduous Forest
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- FOMM8 - Fresh - Moist Poplar - White Birch Mixed Forest Ecosite
- IAGM1 - Agricultural Buildings
- MAM - Meadow Marsh
- MAMM1 - Graminoid Mineral Meadow Marsh Ecosite
- ME - Meadow
- MEG - Graminoid Meadow
- OA - Open Water
- OAGM1 - Annual Row Crops
- OAGM2 - Perennial Cover Crops
- OAGM4 - Open Pasture
- SWTM3 - Willow Mineral Deciduous Thicket Swamp Ecosite
- THDM4 - Dry - Fresh Deciduous Regeneration Thicket Ecosite



Notes

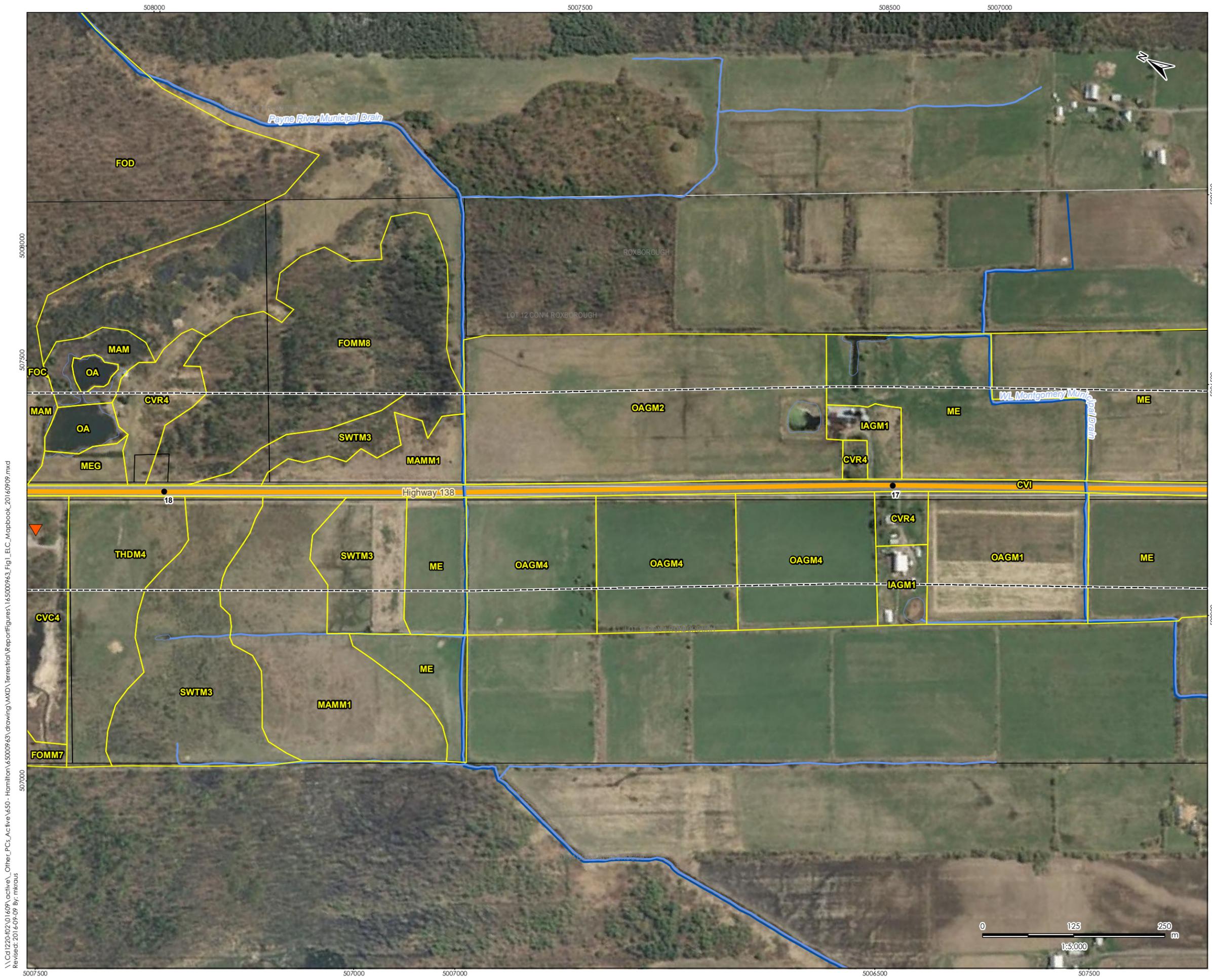
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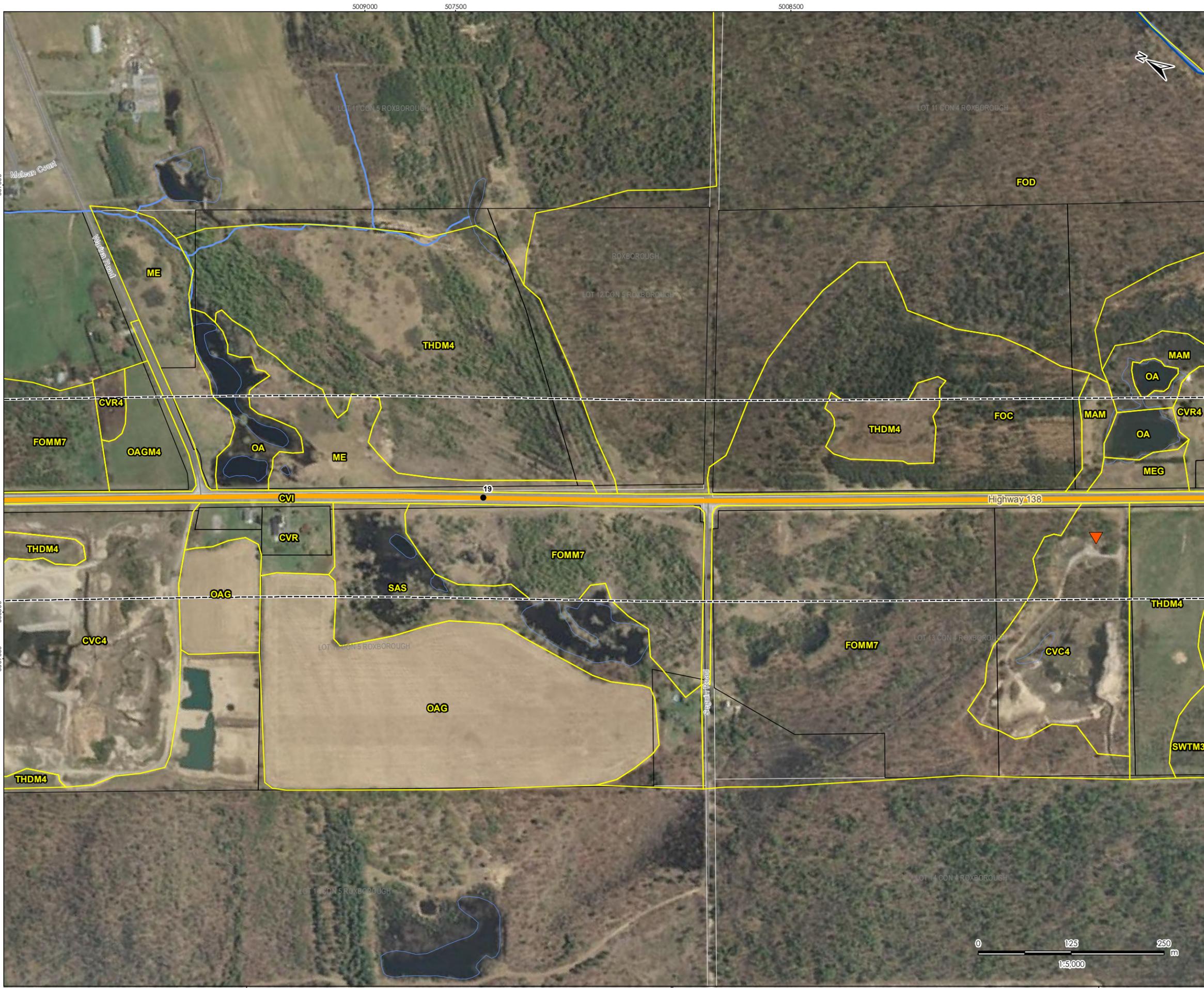
Exhibit 6-16

Title
Ecological Land Classification



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 Revised: 2016-09-09 By: mtraus

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 Revised: 2016-09-09 By: mtraus



- Legend**
- Midland Painted Turtle Roadkill
 - Road Station
 - Highway 138 Improvement Area
 - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVC4 - Extraction
- CVI - Transportation and Utilities
- CVR - Residential
- CVR4 - Rural Property
- FOC - Coniferous Forest
- FOD - Deciduous Forest
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- MAM - Meadow Marsh
- ME - Meadow
- MEG - Graminoid Meadow
- OA - Open Water
- OAG - Open Agriculture
- OAGM4 - Open Pasture
- SAS - Submerged Shallow Aquatic
- SWTM3 - Willow Mineral Deciduous Thicket Swamp Ecosite
- THDM4 - Dry - Fresh Deciduous Regeneration Thicket Ecosite



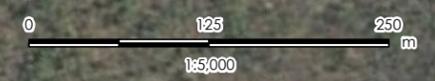
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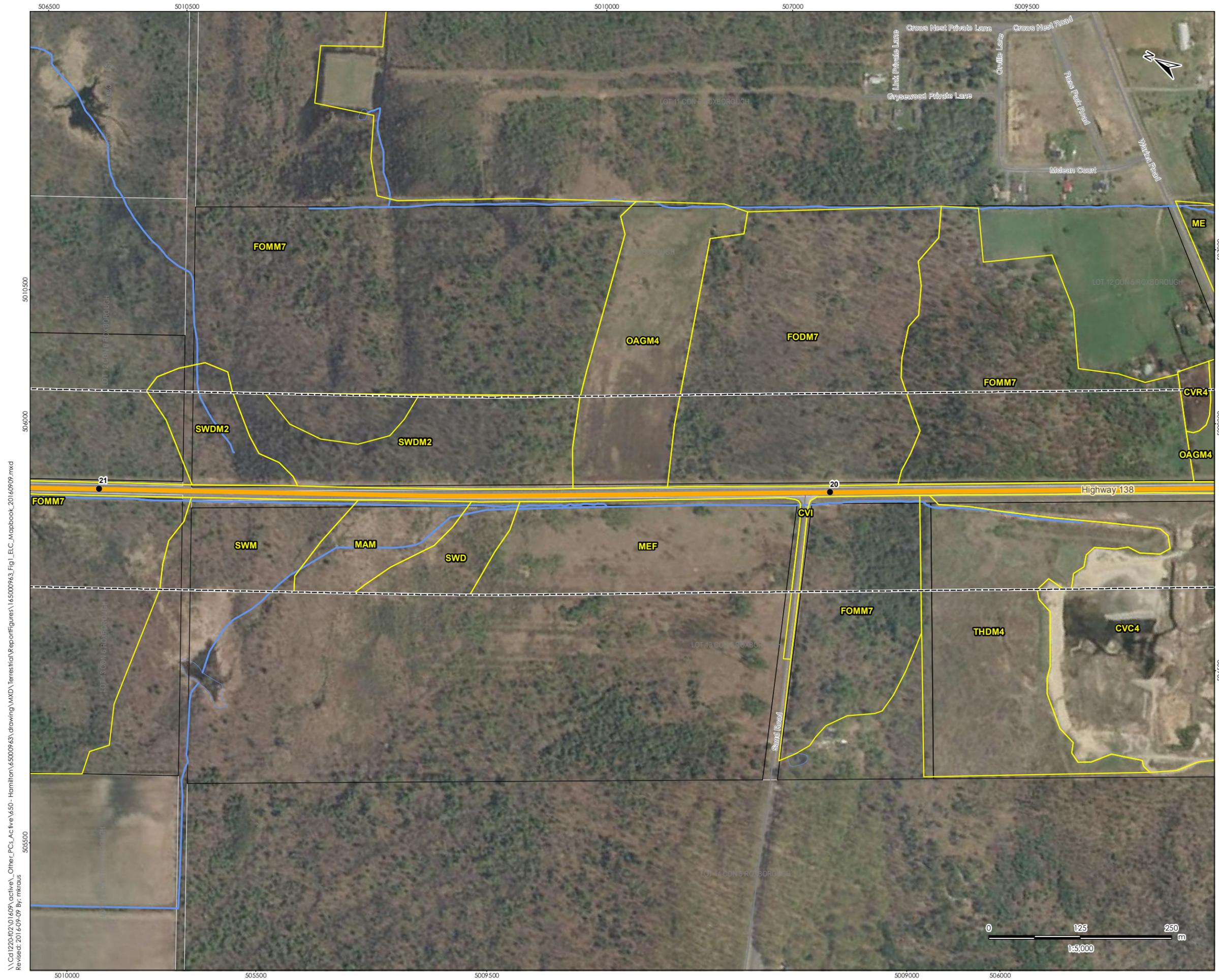
Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-17

Title
Ecological Land Classification



5008500 507000 5008500 506500 5008500 5007500



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - ▭ Ecological Land Classification
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Permanent
 - ▭ Municipal Boundary, Upper
 - ▭ Lot
 - - - Municipal Boundary, Lower
 - ▭ Waterbody

- CVC4 - Extraction
- CVI - Transportation and Utilities
- CVR4 - Rural Property
- FODM7 - Fresh - Moist Lowland Deciduous Forest Ecosite
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- MAM - Meadow Marsh
- ME - Meadow
- MEF - Forb Meadow
- OAGM4 - Open Pasture
- SWD - Deciduous Swamp
- SWDM2 - Ash Mineral Deciduous Swamp Ecosite
- SWDM2 - Green Ash Mineral Deciduous Swamp Type
- SWM - Mixed Swamp
- THDM4 - Dry - Fresh Deciduous Regeneration Thicket Ecosite



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Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-18
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus

506000 5011500 5011000 506500



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Parcel
 - Railway
 - - - Watercourse, Intermittent
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Lot
 - Municipal Boundary, Lower

- CVI - Transportation and Utilities
- CVI1 - Transportation
- CVR - Residential
- FOC - Coniferous Forest
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- OAG - Open Agriculture
- SWDM2 - Ash Mineral Deciduous Swamp Ecosite
- SWM - Mixed Swamp



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Ministry of Transportation Ontario (MTO)
Highway 138 Improvements from
Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-19
Title
Ecological Land Classification

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Revised: 2016-09-09 By: mtraus

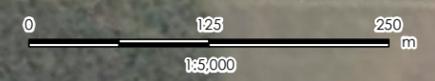
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5010000

505500

5011000 505000 5010500 5010500 5010000 5065000



5013000

505500 5012500

5012000



Legend

- Road Station
- Highway 138 Improvement Area
- ⊞ 120 m Zone of Investigation
- Ecological Land Classification
- Constructed Drain
- Ditch
- Highway
- Major Road
- Minor Road
- Parcel
- Railway
- Watercourse, Intermittent
- Watercourse, Permanent
- ⊞ Municipal Boundary, Upper
- Lot
- ⊞ Municipal Boundary, Lower

- CVI - Transportation and Utilities
- CVI1 - Transportation
- CVR - Residential
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- OAG - Open Agriculture
- SWMM4 - Ash Mineral Mixed Swamp Ecosite



Notes

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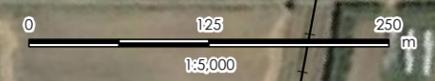
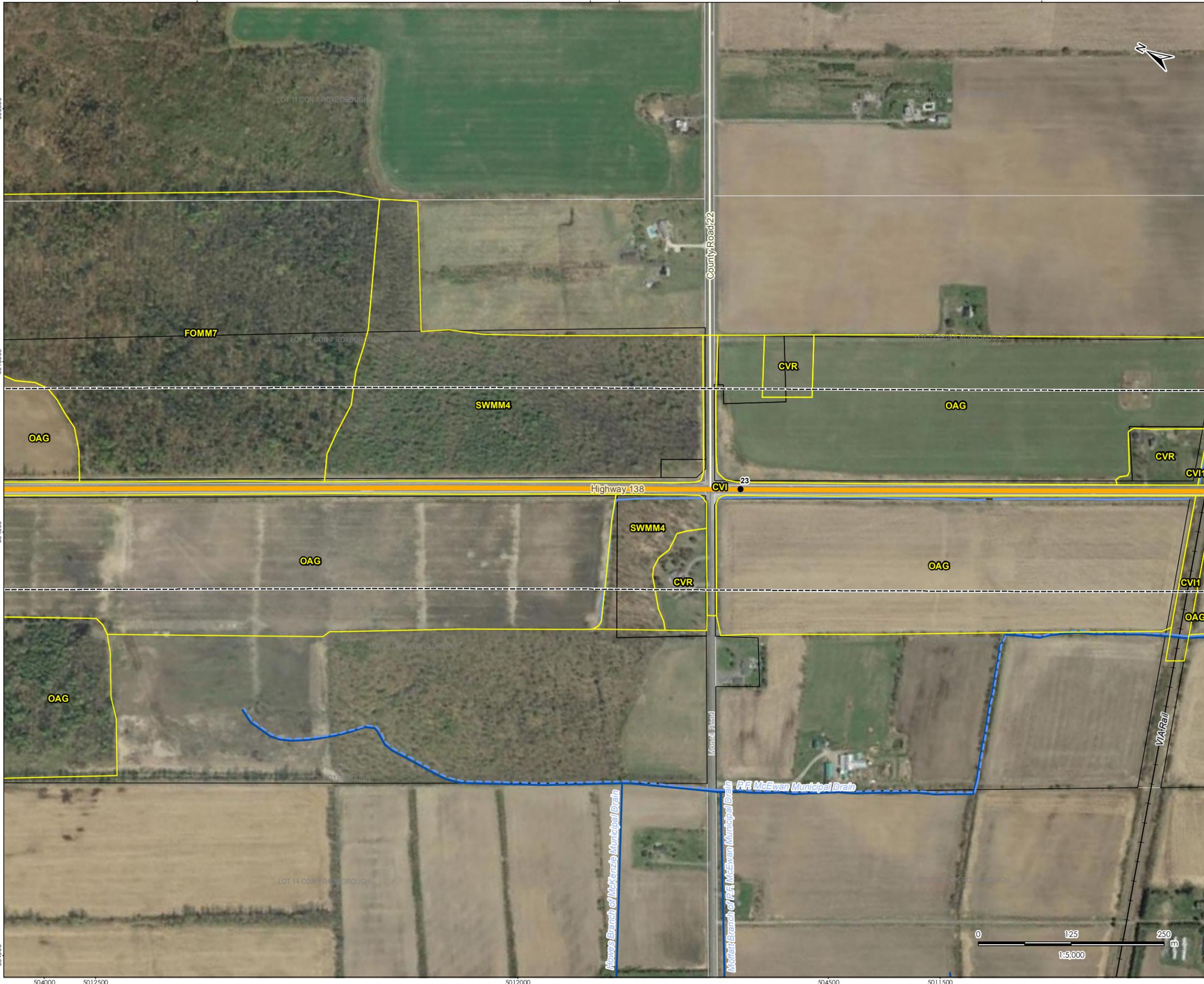
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Client/Project
 Ministry of Transportation Ontario (MTO)
 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-20

Title
Ecological Land Classification

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 Revised: 2016-09-09 By: mtraus
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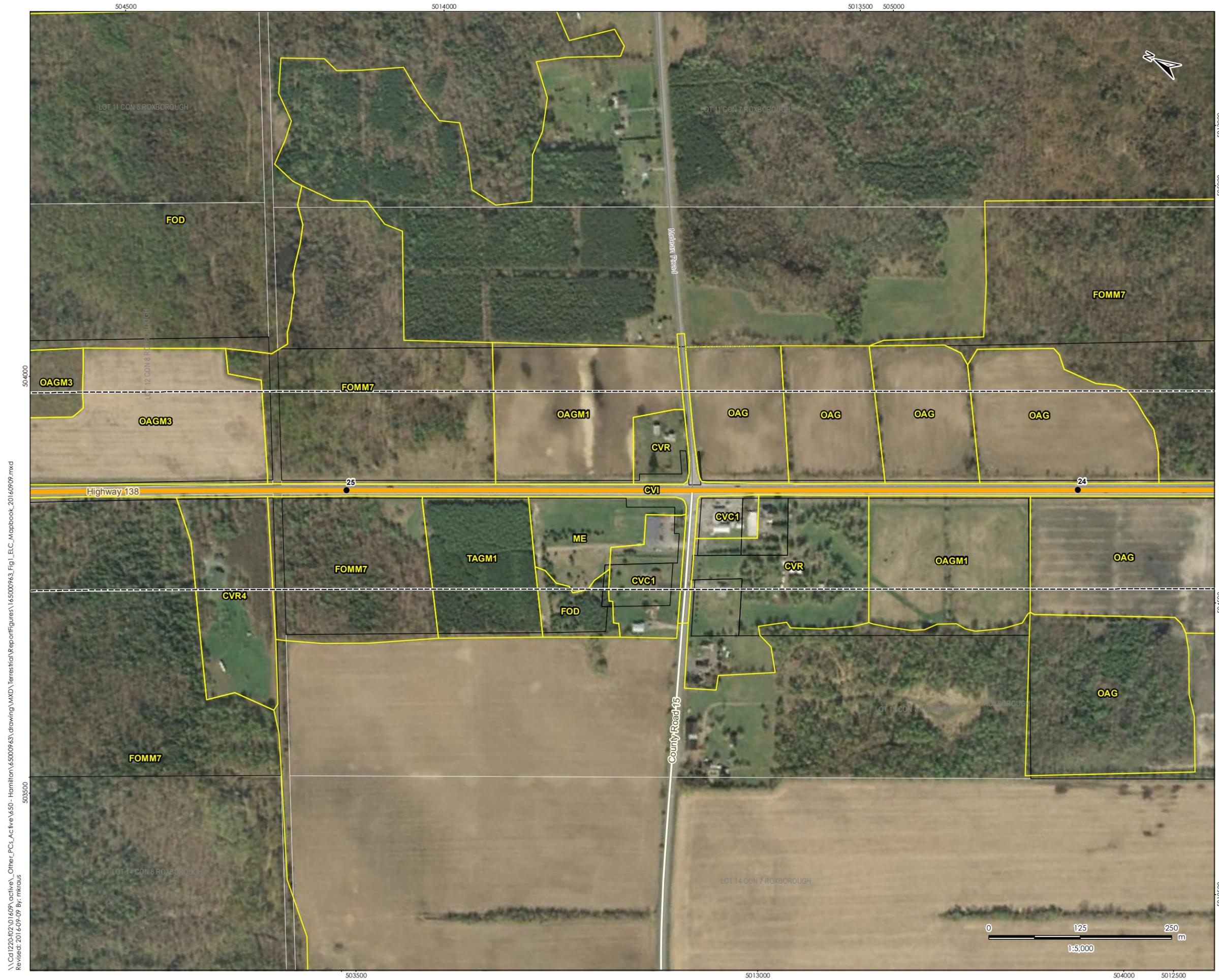


504000 5012500

5012000

504500

5011500



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Highway
 - Major Road
 - Minor Road
 - Parcel
 - Municipal Boundary, Upper
 - Lot
 - Municipal Boundary, Lower

- CVC1 - Business Sector
- CVI - Transportation and Utilities
- CVR - Residential
- CVR4 - Rural Property
- FOD - Deciduous Forest
- FOMM7 - Fresh – Moist White Cedar – Hardwood Mixed Forest Ecosite
- ME - Meadow
- OAG - Open Agriculture
- OAGM1 - Annual Row Crops
- OAGM3 - Specialty Crops
- TAGM1 - Coniferous Plantation

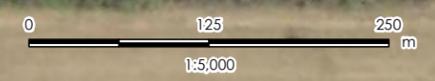


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(GWP 4015-08-00)

Exhibit 6-21
Title
Ecological Land Classification



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 Revised: 2016-09-09 By: mtraus

5015500 504000 5015000 5014500 504500



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Highway
 - Minor Road
 - Parcel
 - - - Watercourse, Intermittent
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201 606715)
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVI - Transportation and Utilities
- CVR4 - Rural Property
- FOD - Deciduous Forest
- FOM - Mixed Forest
- FOMM7 - Fresh - Moist White Cedar - Hardwood Mixed Forest Ecosite
- IAG - Agricultural Infrastructure
- OAG - Open Agriculture
- OAGM3 - Specialty Crops



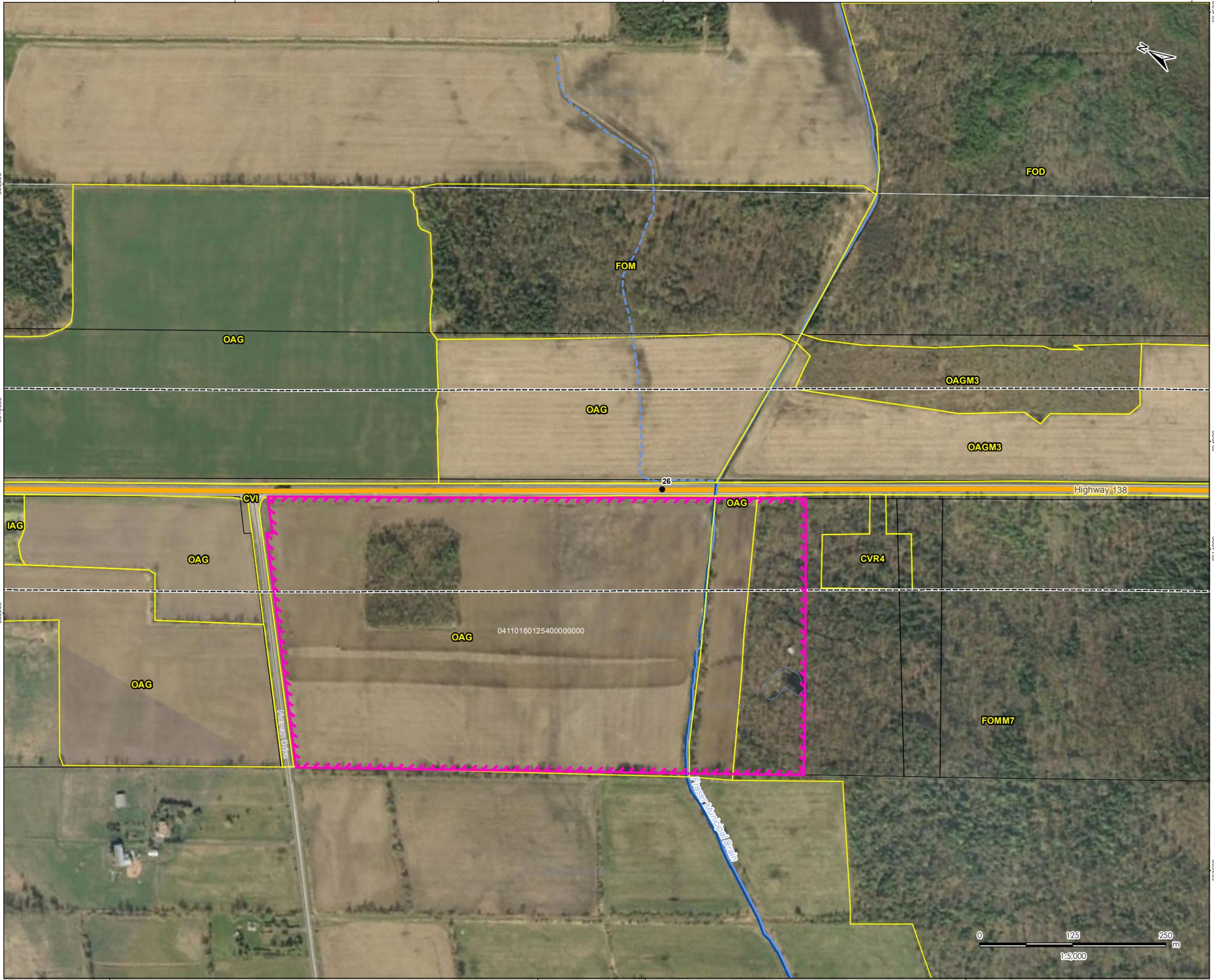
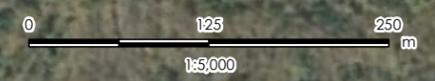
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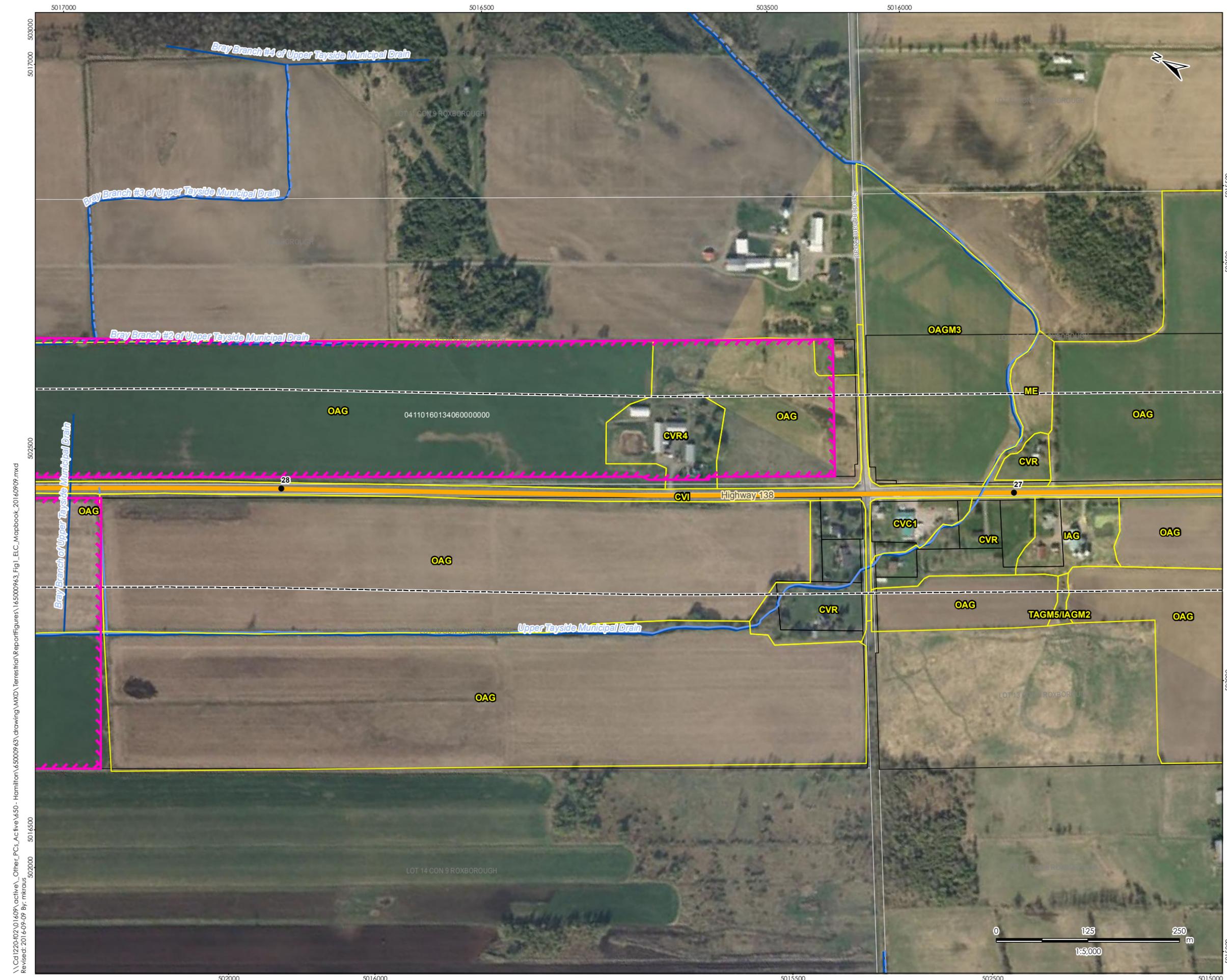
Exhibit 6-22

Title
Ecological Land Classification



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5015000 5014500 503000 5014000 5015000



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Intermittent
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201 606715)
 - Lot
 - Municipal Boundary, Lower

- CVC1 - Business Sector
- CVI - Transportation and Utilities
- CVR - Residential
- CVR4 - Rural Property
- IAG - Agricultural Infrastructure
- ME - Meadow
- OAG - Open Agriculture
- OAGM3 - Specialty Crops
- TAGM5/IAGM2 - Fencerow/Agricultural Waste Management

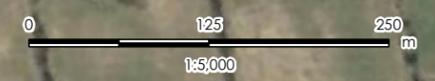


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Highway 401 to Highway 417
(GWP 4015-08-00)

Exhibit 6-23
Title
Ecological Land Classification



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 Revised: 2016-09-09 By: mtraus



- Legend**
- Road Station
 - Highway 138 Improvement Area
 - - - 120 m Zone of Investigation
 - Ecological Land Classification
 - Constructed Drain
 - Ditch
 - Highway
 - Minor Road
 - Parcel
 - Watercourse, Intermittent
 - Watercourse, Permanent
 - Municipal Boundary, Upper
 - Land Access Granted (201606715)
 - Lot
 - Municipal Boundary, Lower
 - Waterbody

- CVC - Commercial and Institutional
- CVI - Transportation and Utilities
- CVR - Residential
- IAGM1 - Agricultural Buildings
- OAG - Open Agriculture
- TH - Thicket
- WOD - Deciduous Woodland

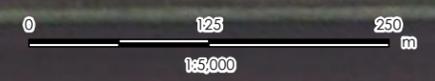


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 Highway 138 Improvements from
 Highway 401 to Highway 417
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Exhibit 6-24
 Title
Ecological Land Classification



5019500

5019000 502000

5018500



Legend

- Road Station
- Highway 138 Improvement Area
- - - 120 m Zone of Investigation
- ▭ Ecological Land Classification
- Constructed Drain
- Highway
- Minor Road
- Parcel
- - - Watercourse, Intermittent
- Watercourse, Permanent
- ▨ Breeding Bird Survey Location
- ▭ Municipal Boundary, Upper
- ▭ Lot
- ▭ Municipal Boundary, Lower
- ▭ Waterbody

- CVI - Transportation and Utilities
- CVR - Residential
- MAM - Meadow Marsh
- ME - Meadow
- OAG - Open Agriculture
- TH - Thicket



Notes

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 Highway 138 Improvements from
 Highway 401 to Highway 417
 (GWP 4015-08-00)

Exhibit 6-25

Title
Ecological Land Classification

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 5019000

