

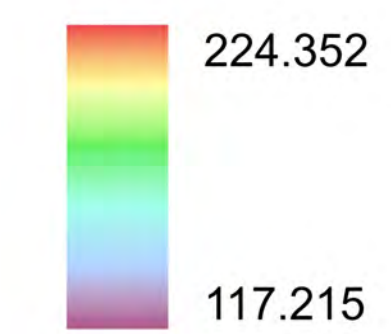
LEGEND

- Study Area
- Subject Property
- Drainage Feature¹

Subwatersheds

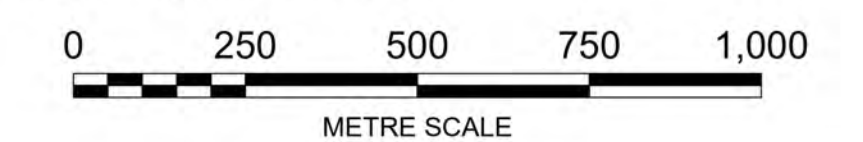
- East Twenty Mile Creek
- Hannon Creek
- Sinkhole Creek
- Stoney Creek
- West Twenty Mile Creek
- Upper Davis Creek

Elevation



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies

NOTE: The information contained within this figure is preliminary and will be refined during further study.



North American Datum 1983
Universal Transverse Mercator Projection Zone 17

Scale: 1:11,000
Page Size: ANSI D (22 x 34 inches)

Drawn: HL
Checked: AW
Date: Apr 14, 2026



Source Notes:
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CLIENT
Elfrida Community Builders Group Inc.

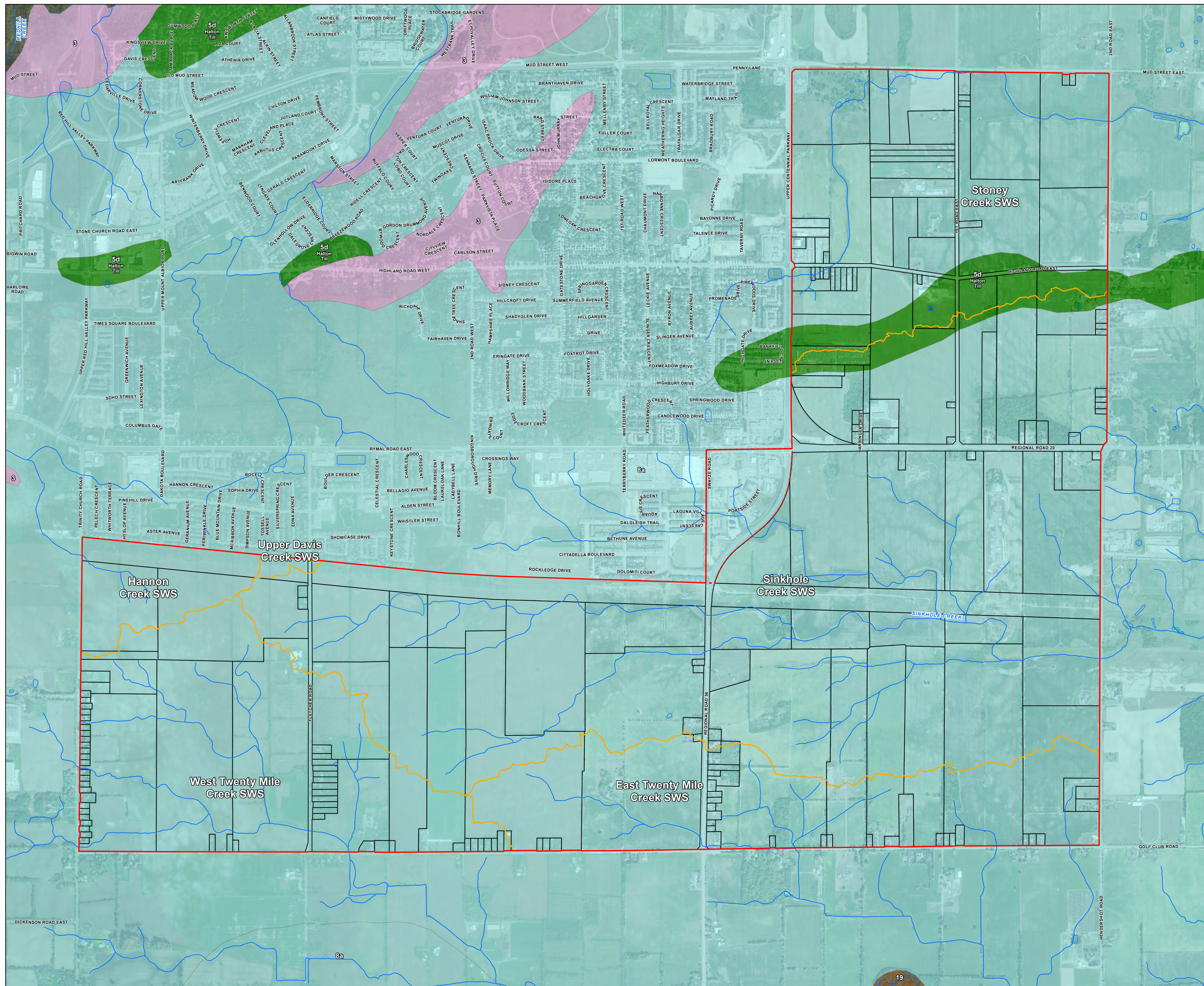
PROJECT
Elfrida Subwatershed Plan



TITLE
Study Area - Topography

REF. NO.
2306301-3.4.2-1

Figure 3.4.1



LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary

Surficial Geology¹

Phanerozoic / Cenozoic / Quaternary / Recent

- 19: Modern alluvial deposits (*clay, silt, sand, gravel, may contain organic remains*)

Phanerozoic / Cenozoic / Quaternary / Pleistocene

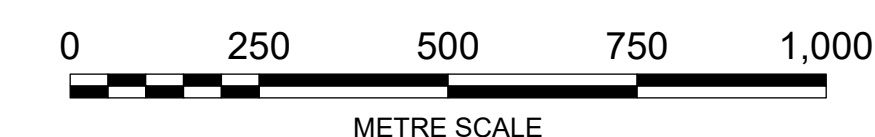
- 8a: Fine-textured glaciolacustrine deposits (*Massive-well laminated*)
- 5d: Till (*Clay to silt-textured till [derived from glaciolacustrine deposits or shale]*)

Phanerozoic / Paleozoic

- 3: Paleozoic bedrock
- Drainage Feature²

1 - The Ontario Geological Survey, 20023. Surficial Geology of Southern Ontario.
 2- Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.

NOTE: The information contained within this figure is preliminary and will be refined during further study.



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 Checked: DJ
 Date: Jan 26, 2026



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CLIENT
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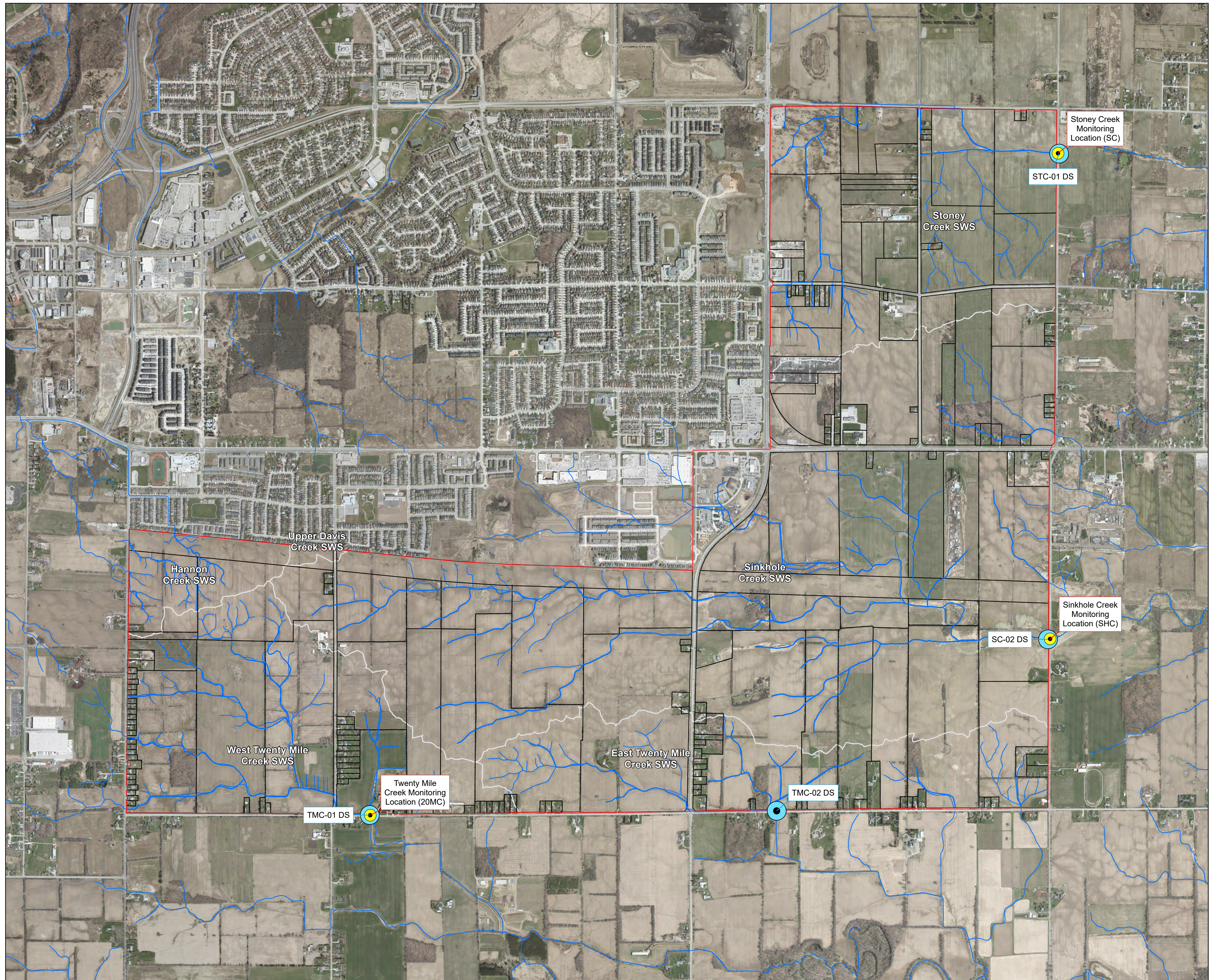
PROJECT
 Elfrida Subwatershed Plan



TITLE
 Physiographic Regions

REF. NO.
 2306301-3.4.2-1

Figure 3.4.2



LEGEND

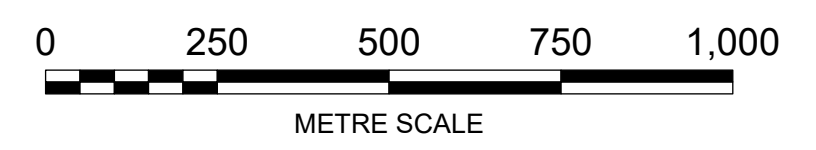
- Study Area
- Subject Property
- Subwatershed Boundary
- Drainage Feature¹

Monitoring Sites

- Water Quality Grab Sample Locations
- Installed Thermal Monitors

1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies

NOTE: The information contained within this figure is preliminary and will be refined during further study.



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:11,000
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Drawn: CS
 Checked: AW
 Date: Jan 26, 2026

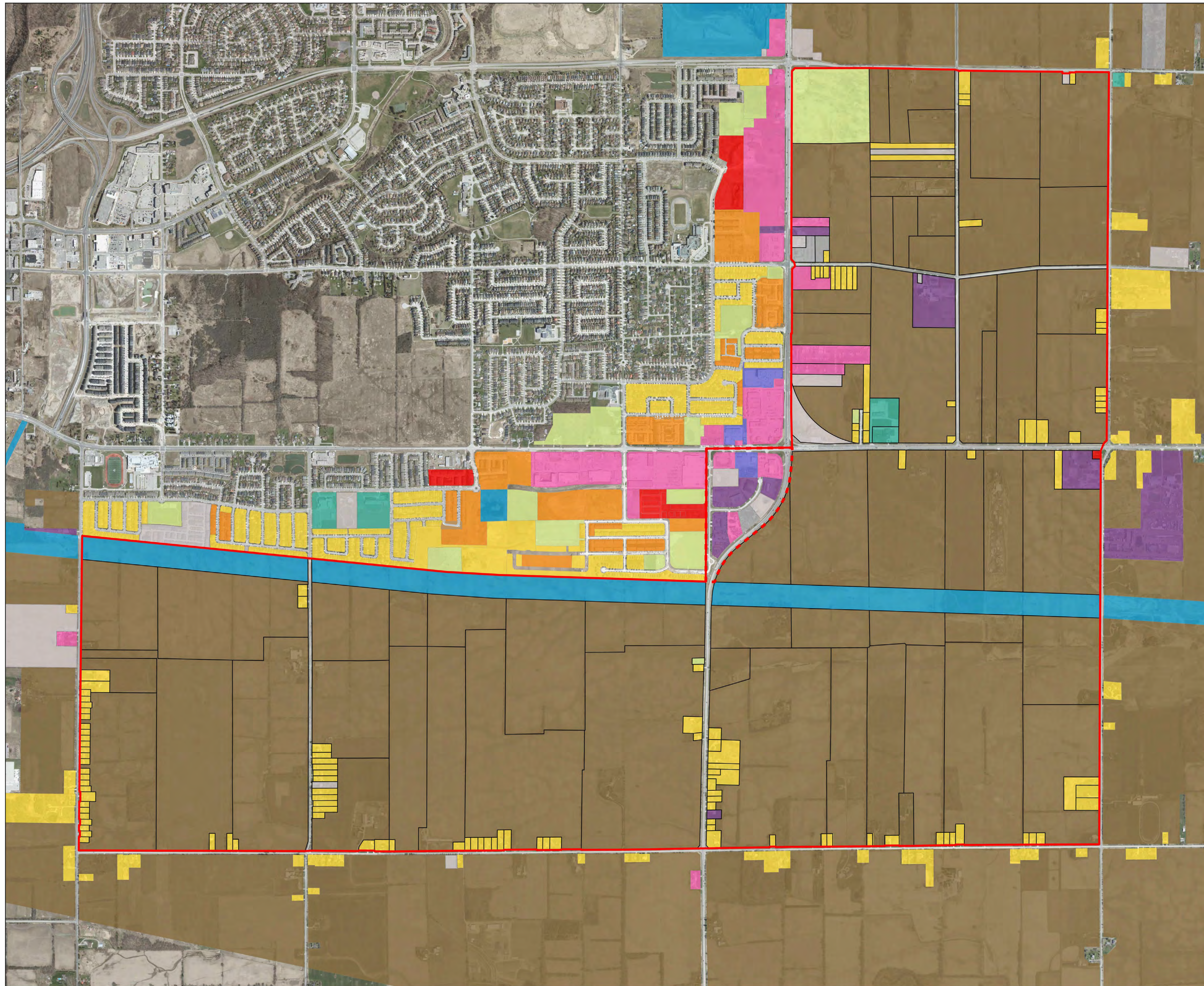
Source Notes:
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PROJECT
 Elfrida Subwatershed Plan

TITLE	Water Quality Monitoring Sites
REF. NO.	2306301-3.4.4-1
Figure 3.4.4	



LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subwatershed Boundary
- Subject Property
- Drainage Feature¹

Existing Land Use Category²

 Residential Low	 Parks/Open Space
 Residential Medium	 Agricultural
 Residential High	 Institutional
 Commercial	 Office
 Industrial	 Vacant Lands
 Transportation/Utilities	 Other

1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies
 2 - Initial land use data provided by the City of Hamilton, land use categories were updated to reflect changes in current use encountered during study.

NOTE: The information contained within this figure is preliminary and will be refined during further study.

0 250 500 750 1,000
 METRE SCALE

North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:10,000
 Page Size: ANSI D (22 x 34 inches)

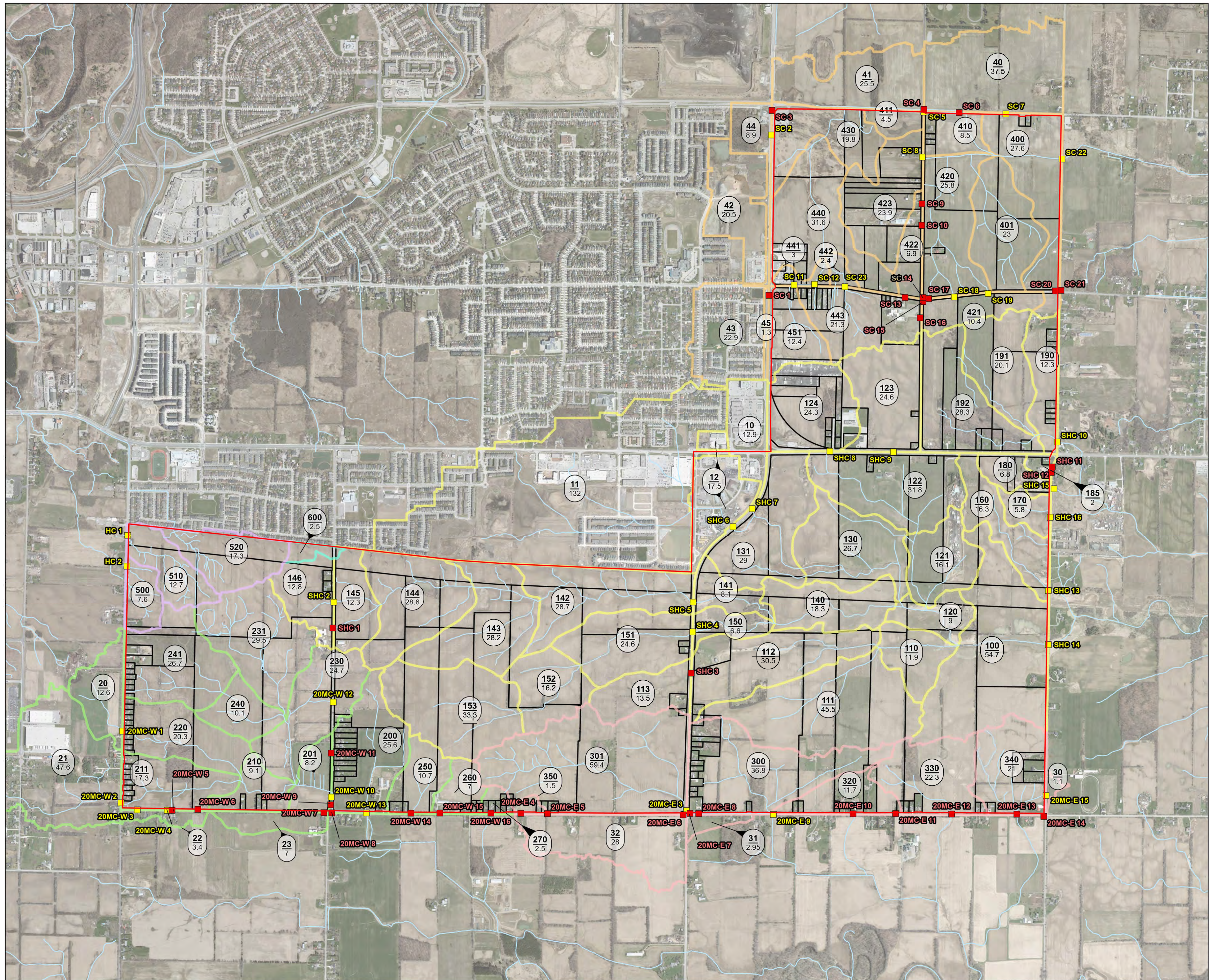
Drawn: CS
 Checked: AW
 Date: Jan 30, 2026

NORTH

Source Notes:
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CLIENT	Elfrida Community Builders Group Inc.
PROJECT	Elfrida Subwatershed Plan
TITLE	Subwatershed Existing Land Use
REF. NO.	2306301-3.4.5-1
Figure 3.4.5	





LEGEND

- Study Area
- Subject Property
- Crossing with Photos
- Crossing without Photos
- Drainage Feature¹

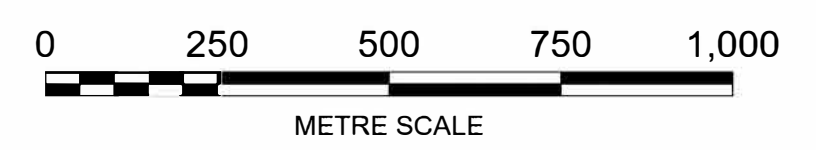
Sub-catchments

- East Twenty Mile Creek
- Hannon Creek
- Sinkhole Creek
- Stoney Creek
- West Twenty Mile Creek
- Upper Davis Creek

ID
Area (ha)

¹ - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies

NOTE: The information contained within this figure is preliminary and will be refined during further study.



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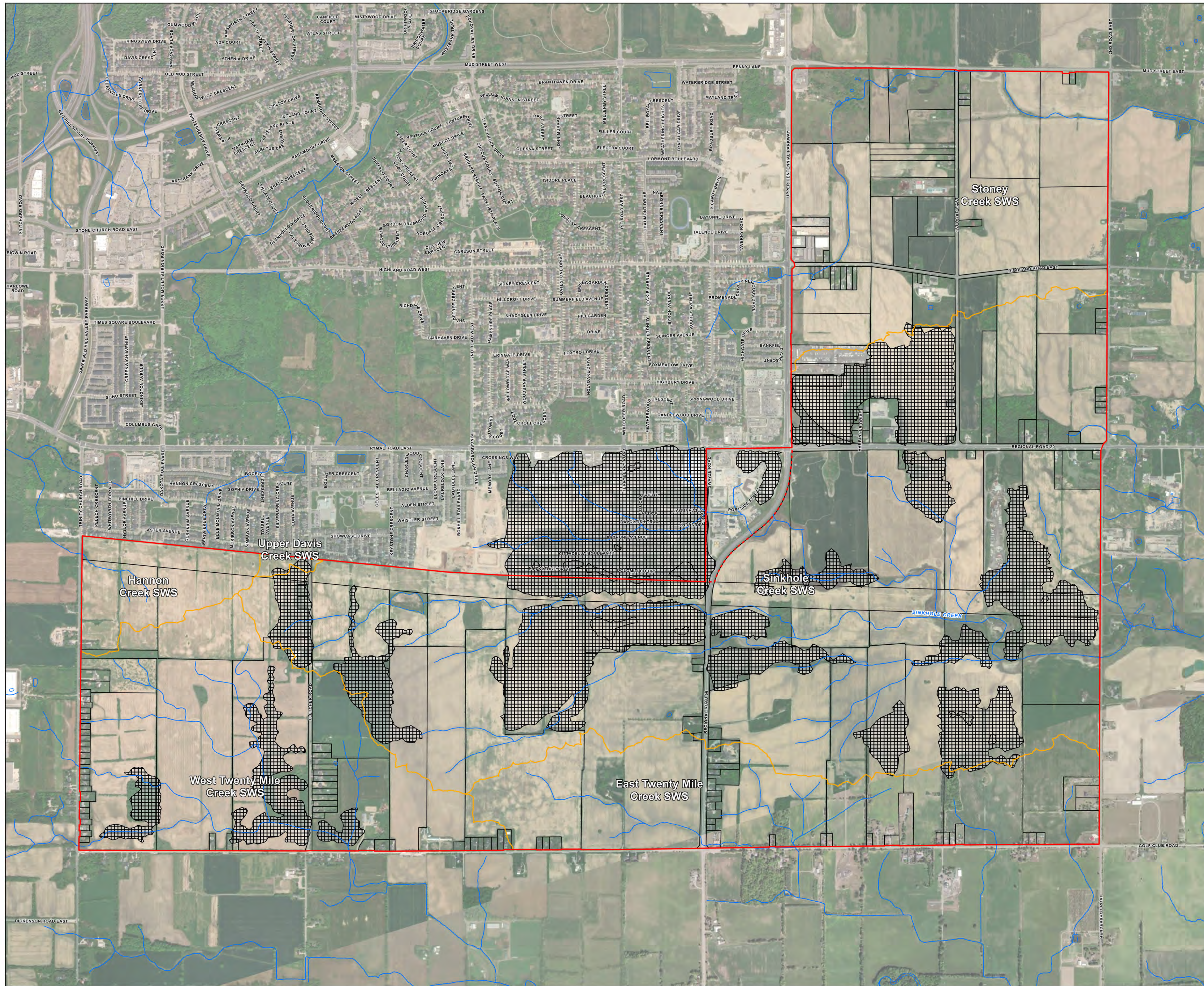
CLIENT
 Elfrida Community Builders Group Inc.

PROJECT
 Elfrida Subwatershed Plan

TITLE
Crossing Inventory

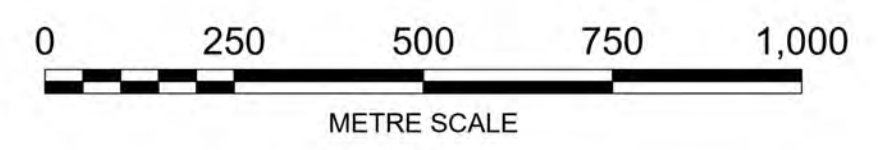
REF. NO.
 2306301-3.4.6

Figure 3.4.6



- LEGEND**
- Study Area
 - Additional Lands (Unsurveyed)
 - Subject Property
 - Subwatershed Boundary
 - Significant Groundwater Recharge Area

1 - Extract of the Superficial Geology Map P.993 "Quaternary Geology, Grimsby Area".
 NOTE: The information contained within this figure is preliminary and will be refined during further study.



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:10,000
 Page Size: ANSI D (22 x 34 inches)

Drawn: SM
 Checked: DJ
 Date: Apr 14, 2026



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 Elfrida Community Builders Group Inc.

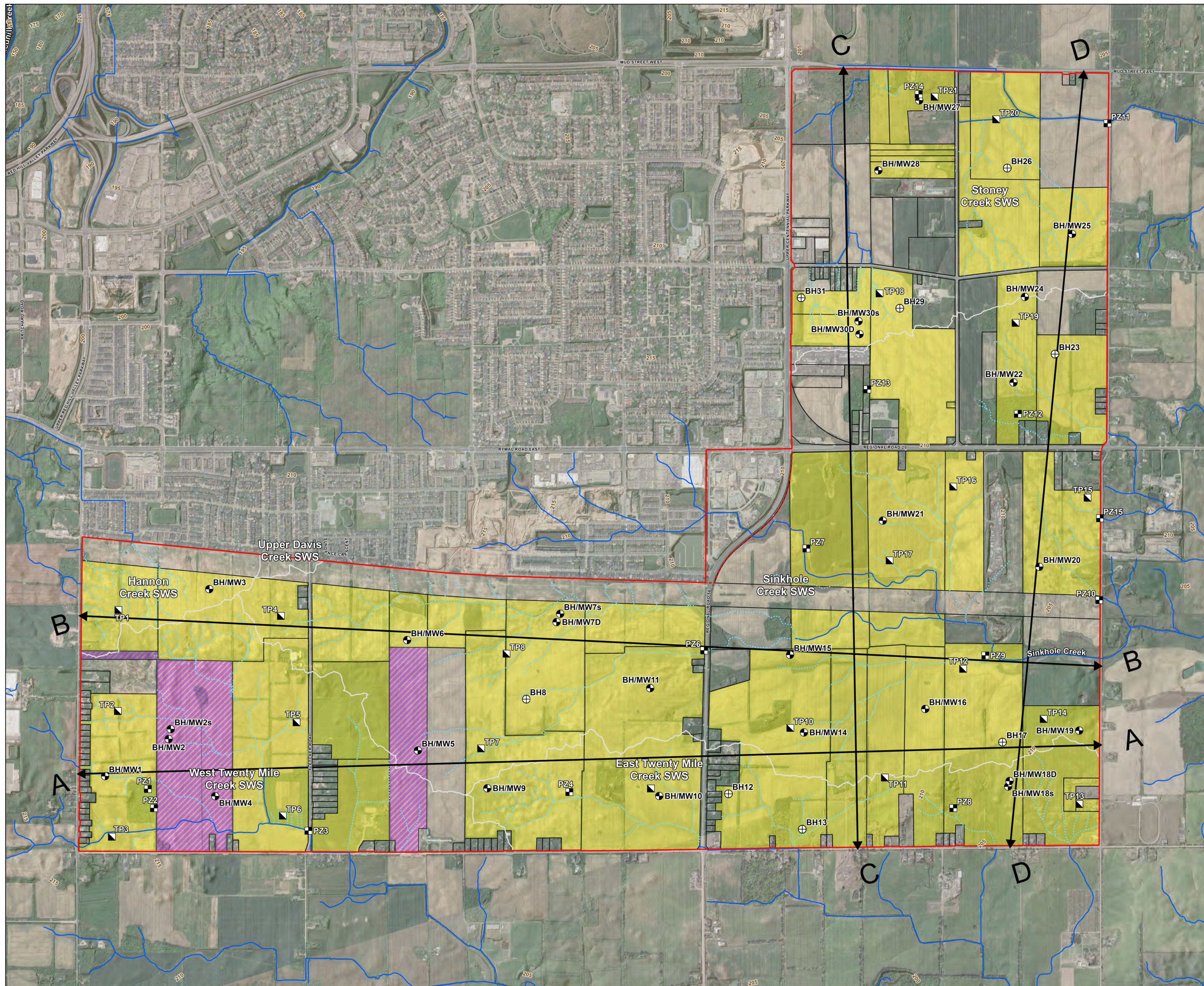
PROJECT
 Elfrida Subwatershed Plan



TITLE
Significant Groundwater Recharge Areas (SGRAs)

REF. NO.
 2306301-3.5.1-1

Figure 3.5.1

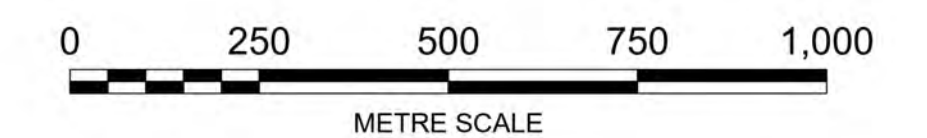


LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subwatershed Boundary
- Subject Properties**
- Cooperating Owner
- Participating Property
- Non Participating Property
- Drainage Feature¹
- Headwater Drainage Feature (HDF)²
- Cross Section Location
- ⊕ Approximate Location of Borehole Location as Drilled by Landtek Limited
- ⊙ Approximate Location of Monitoring Well Installation Completed by Landtek Limited
- Approximate Location of Piezometer as Drilled by Landtek Limited
- Approximate Location of Test Pit as Drilled by Landtek Limited

1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non-participating properties were assessed based on the most conservative adjacent HDF classification.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17

Scale: 1:10,000
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Drawn: SM
 Checked: DJ
 Date: Apr 14, 2026

Source Notes:
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 Elfrida Community Builders Group Inc.

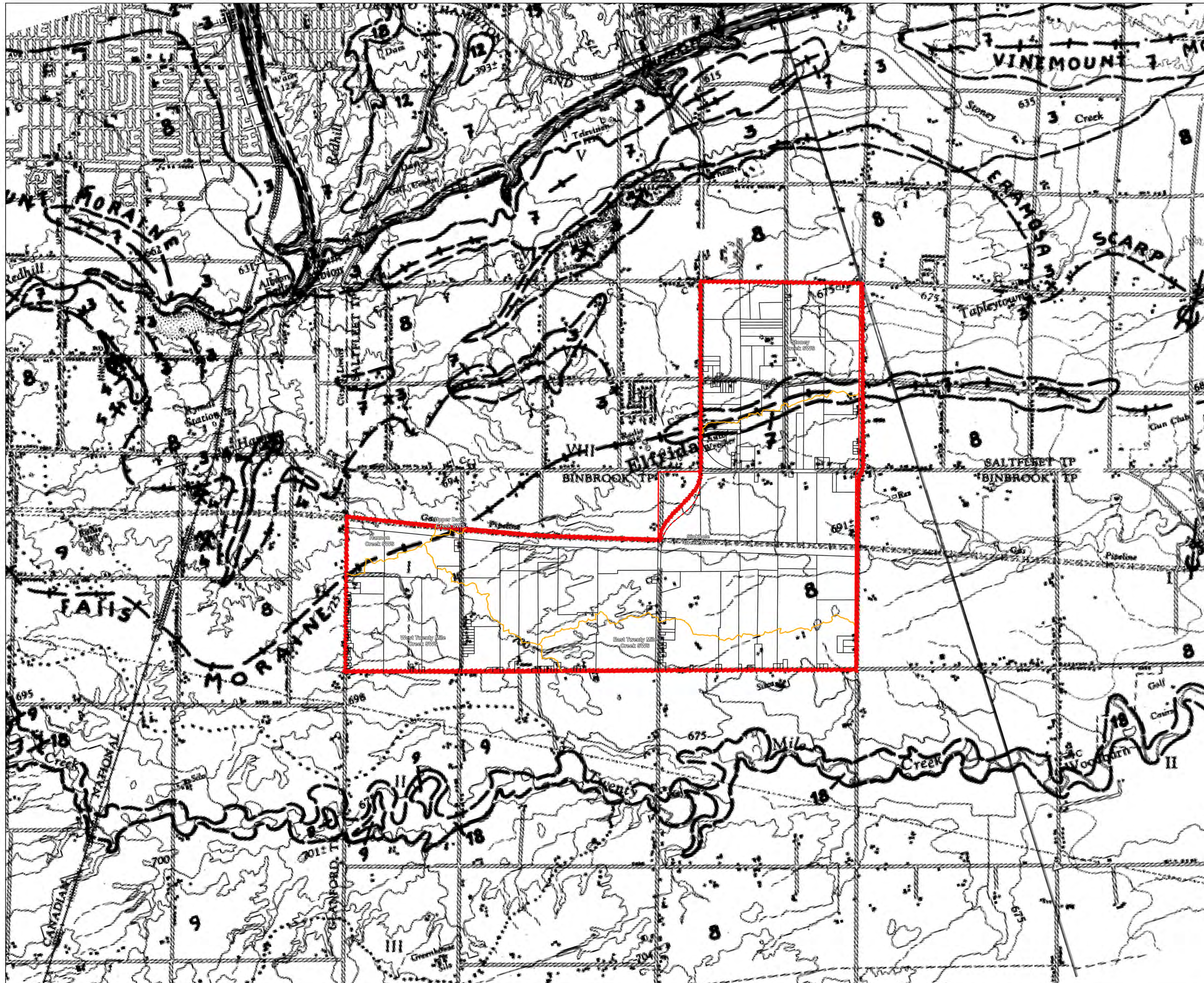
PROJECT
 Elfrida Subwatershed Plan



TITLE
Exploratory Hole and Monitoring Well Location Plan

REF. NO.
 2306301-3.5.2-1

Figure 3.5.2



LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary

PRELIMINARY MAP P.993
GEOLOGICAL SERIES

**QUATERNARY GEOLOGY
GRIMSBY AREA**

SOUTHERN ONTARIO

LEGEND

CENOZOIC
QUATERNARY
RECENT

- 20 Cultural Features: gypsum plant
- 19 Lake Ontario beach gravel and sand
- 18 Stream deposits: predominantly clay and silt, some sand and gravel

PLEISTOCENE
LATE WISCONSINAN

- 17 Stream terrace sand, some gravel
- 16 Alluvial fan gravel
- Lake Iroquois Deposits**
- 15 Glaciolacustrine beach sand and gravel
- 14 Glaciolacustrine sand
- 13 Glaciolacustrine clay and silt
- 12 Glaciolacustrine sand
- Lake Warren Deposits**
- 11 Glaciolacustrine silt and sand
- 10 Glaciolacustrine sand
- 9 Glaciolacustrine silt
- 8 Glaciolacustrine clay and silt
- 7 Halton Till: clayey silt-clay till
- 64 Wenworth Till: gravelly silt till (in drumlins)

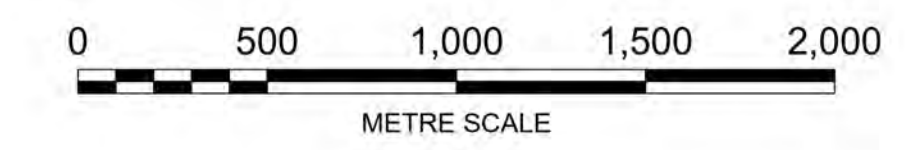
Unconformity

PALEOZOIC
SILURIAN

- 5 Salina Formation: dolostone (shale, gypsum)
- 4 Guelph Formation: dolostone
- 3 Lockport Formation: dolostone (limestone, chert, and shale)
- 2 Clinton and Cataract Groups: sandstone, shale, limestone, and dolostone

1 - Extract of the Superficial Geology Map P.993 "Quaternary Geology, Grimsby Area".

NOTE: The information contained within this figure is preliminary and will be refined during further study.



North American Datum 1983
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Date: Apr 14, 2026

Source Notes:
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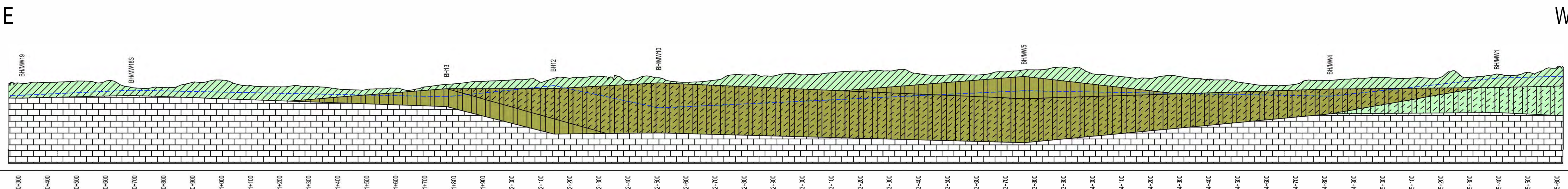
PROJECT
Elfrida Subwatershed Plan

TITLE
Extract of the Superficial Geology Map P.993 "Quaternary Geology, Grimsby Area"

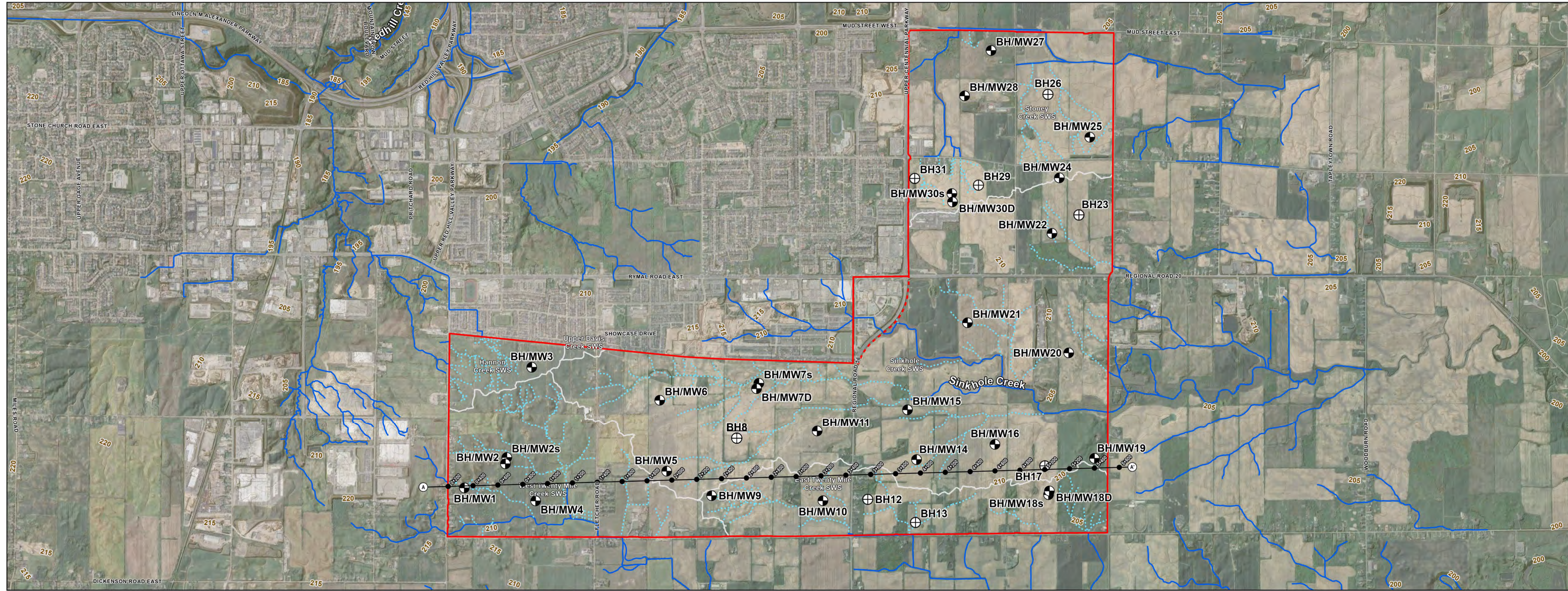
REF. NO.
2306301-3.5.3-1

Figure 3.5.3

Cross Section A-A'

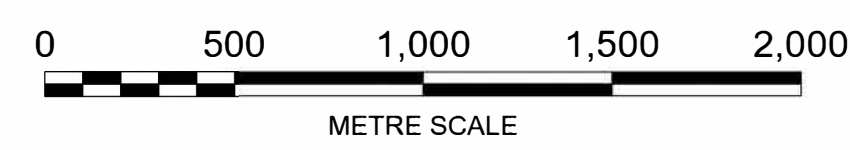


- LEGEND**
- | | | |
|-------------------------------|---|-------------------------------|
| Silty Clay | Approximate Location of Borehole Location as Drilled by Landtek Limited | Subwatershed Boundary |
| Silty Clay Tills | Approximate Location of Monitoring Well Installation Completed by Landtek Limited | Study Area |
| Silt | Cross Section Location (Landtek, Dec 9, 2025) | Additional Lands (Unsurveyed) |
| Clayey Silt (inc. Till) | Drainage Feature ¹ | |
| Dolostone | Headwater Drainage Feature (HDF) ² | |
| Groundwater Piezometric Level | | |



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



North American Datum 1983
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PROJECT
 Elfrida Subwatershed Plan

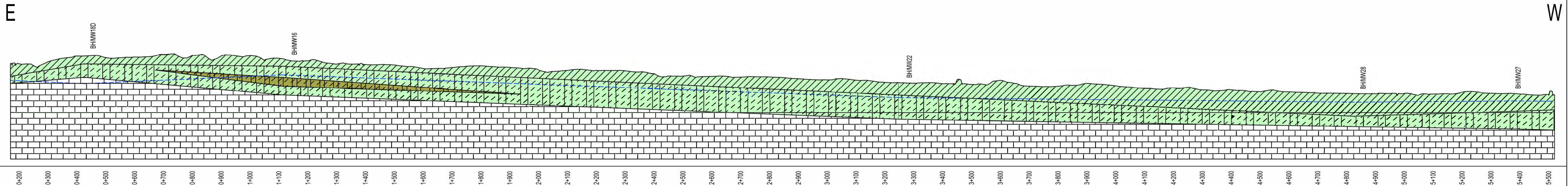


TITLE
Geological Cross Section (A-A')

REF. NO.
 2306301-3.5.4-1

Figure 3.5.4

Cross Section B-B'

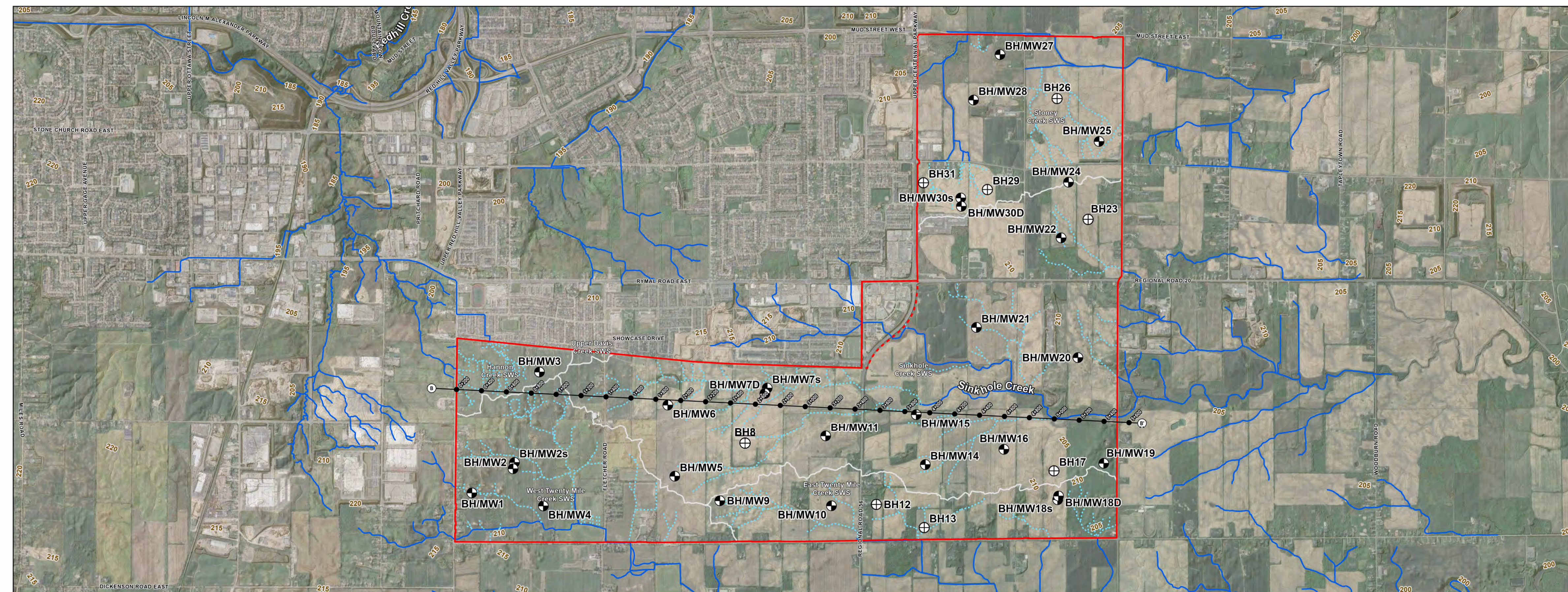


LEGEND

Cross Section Element

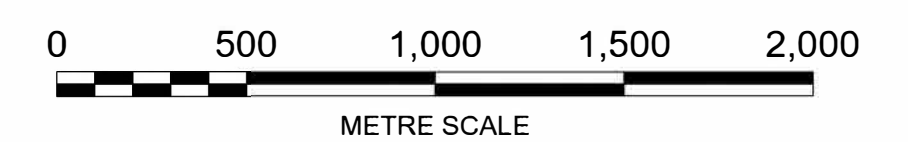
- Silty Clay
- Silty Clay Tills
- Clayer Silt (inc. Till)
- Dolostone
- Groundwater Piezometric Level

- Approximate Location of Borehole Location as Drilled by Landtek Limited
- Approximate Location of Monitoring Well Installation Completed by Landtek Limited
- Cross Section Location (Landtek, Dec 9, 2025)
- Drainage Feature¹
- Headwater Drainage Feature (HDF)²
- Subwatershed Boundary
- Study Area
- Additional Lands (Unsurveyed)



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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PROJECT
 Elfrida Subwatershed Plan



TITLE
 Geological Cross Section (B-B')

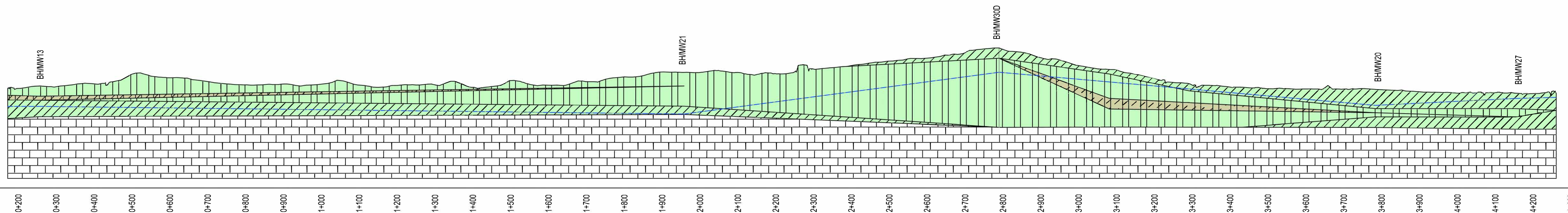
REF. NO.
 2306301-3.5.5-1

Figure 3.5.5

Cross Section C-C'

S

N

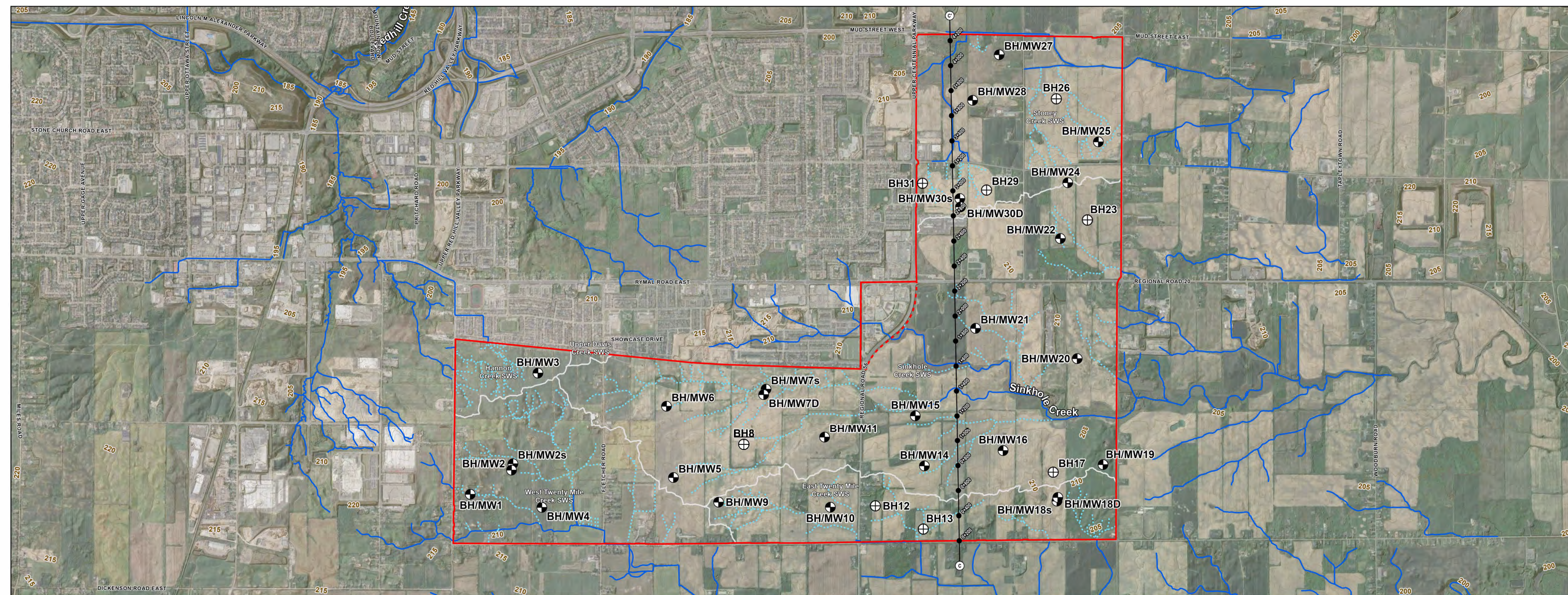


LEGEND

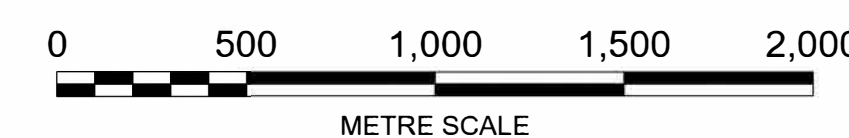
Cross Section Element

- Silty Clay
- Silty Clay Tills
- Clayey Silt Tills
- Dolostone
- Groundwater Piezometric Level

- Approximate Location of Borehole Location as Drilled by Landtek Limited
- Approximate Location of Monitoring Well Installation Completed by Landtek Limited
- Cross Section Location (Landtek, Dec 9, 2025)
- Drainage Feature¹
- Headwater Drainage Feature (HDF)²
- Subwatershed Boundary
- Study Area
- Additional Lands (Unsurveyed)



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



North American Datum 1983
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PROJECT
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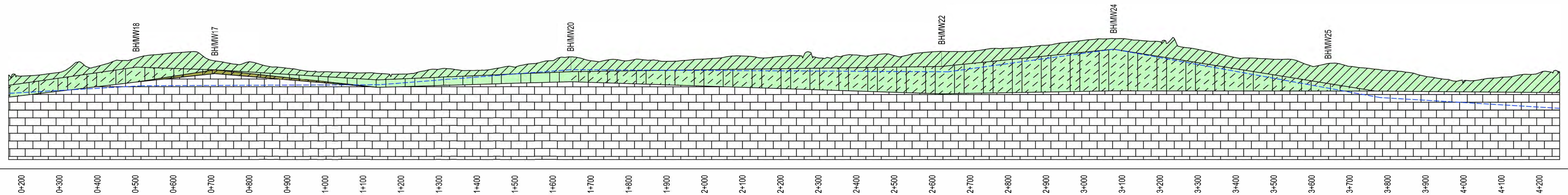


TITLE
Geological Cross Section (C-C')
 REF. NO.
 2306301-3.5.6-1
Figure 3.5.6

Cross Section D-D'

S

N

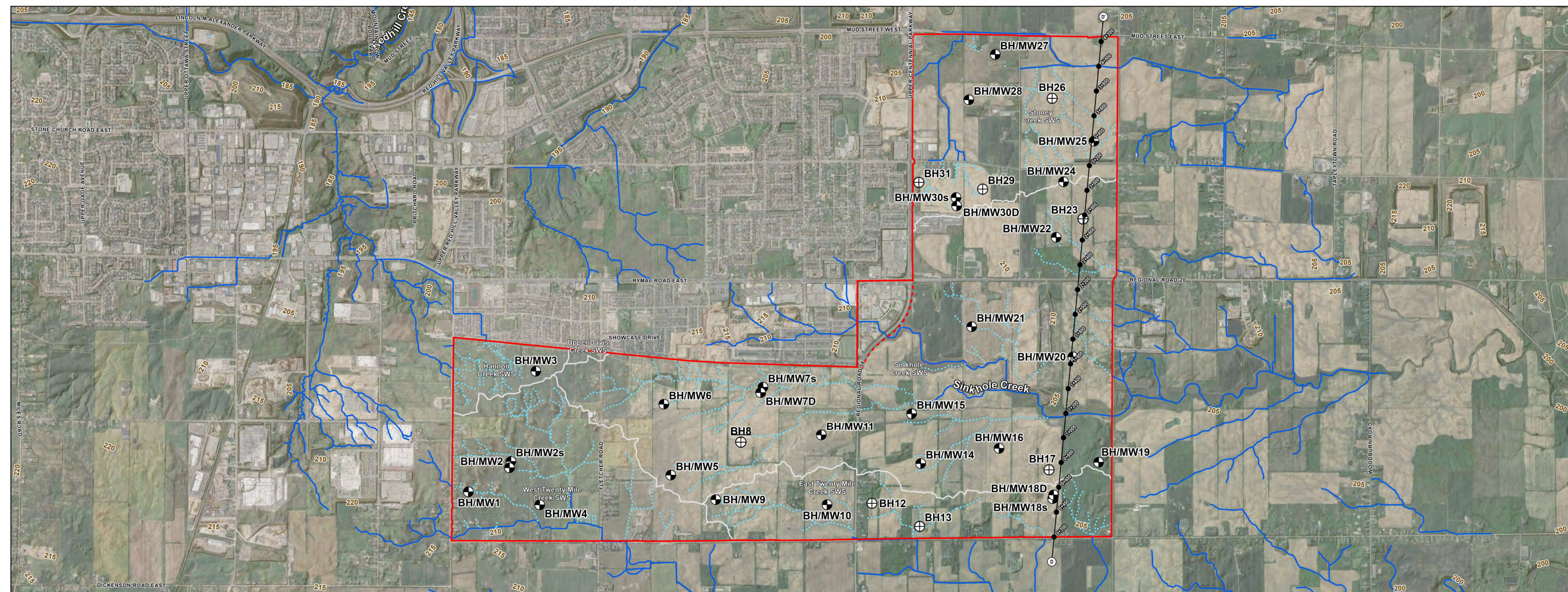


LEGEND

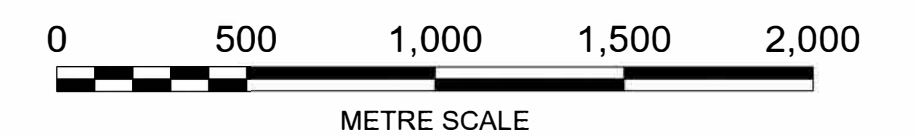
Cross Section Element

- Silty Clay
- Silty Clay Tills
- Clayer Silt (inc. Till)
- Dolostone
- Groundwater Piezometric Level

- Approximate Location of Borehole Location as Drilled by Landtek Limited
- Approximate Location of Monitoring Well Installation Completed by Landtek Limited
- Cross Section Location (Landtek, Dec 9, 2025)
- Drainage Features¹
- Headwater Drainage Feature (HDF)²
- Subwatershed Boundary
- Study Area
- Additional Lands (Unsurveyed)



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



North American Datum 1983
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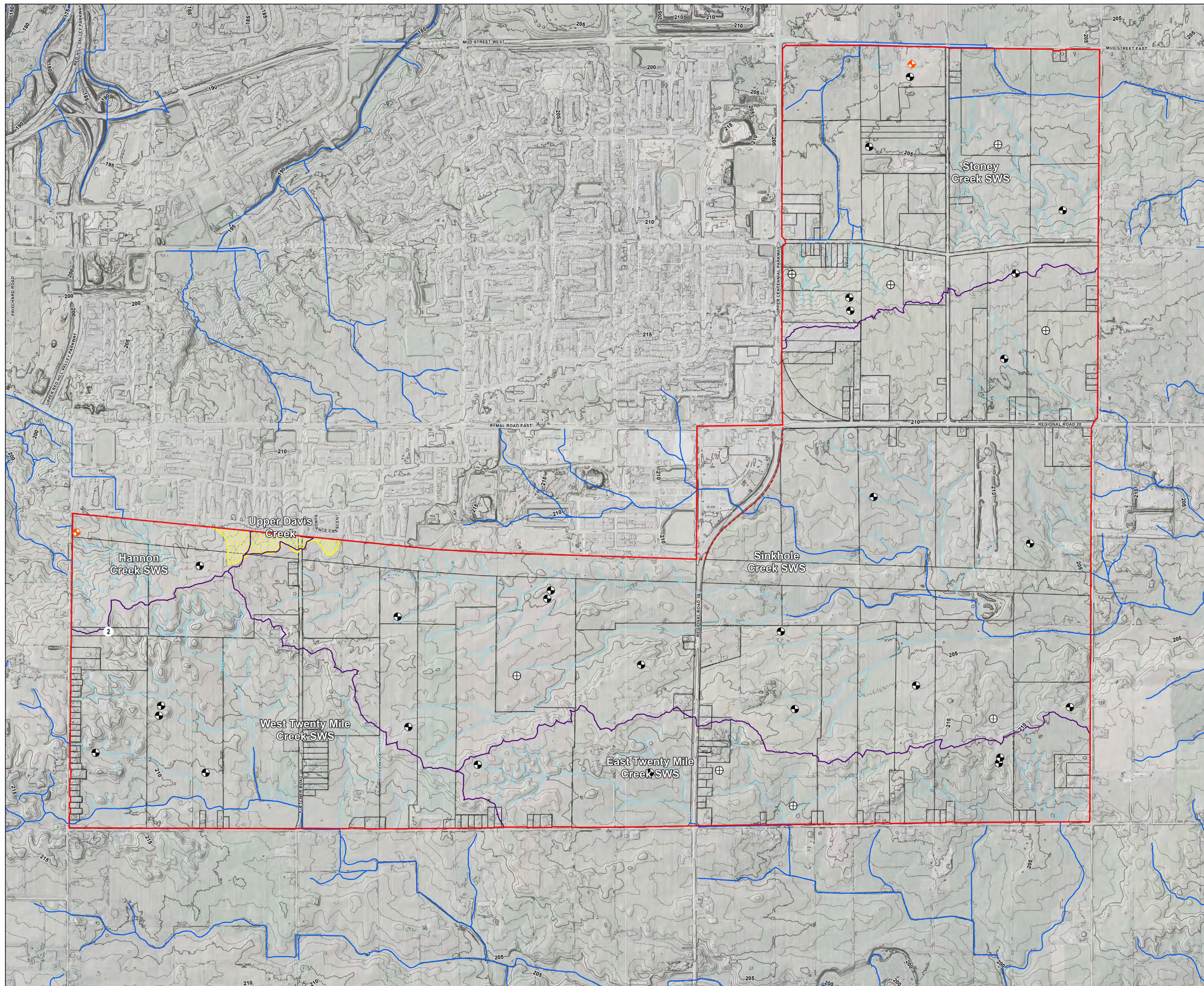
PROJECT
 Elfrida Subwatershed Plan



TITLE
Geological Cross Section (D-D')

REF. NO.
 2306301-3.5.7-1

Figure 3.5.7

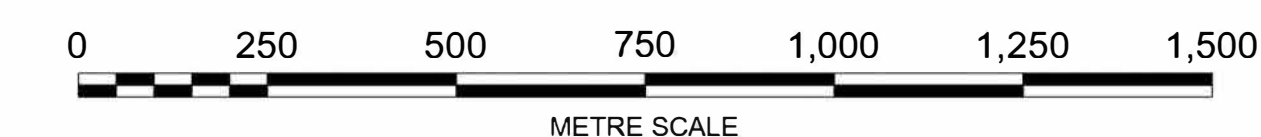


LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Approximate Boundary of Eramosa Karst ANSI
- Watercourse¹
- Headwater Drainage Feature (HDF)¹
- Contour (1 m)²
- ◆ Karst Sinkhole
- ⊕ Approximate Location of Borehole Location as Drilled by Landtek Limited
- Approximate Location of Monitoring Well Installation Completed by Landtek Limited

1 - Verified through 2023-2025 field investigations
 2 - Contour data derived from the Ontario Digital Terrain Model (DTM), some drainage features may not be represented within data.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 2 for list of non-participating properties.



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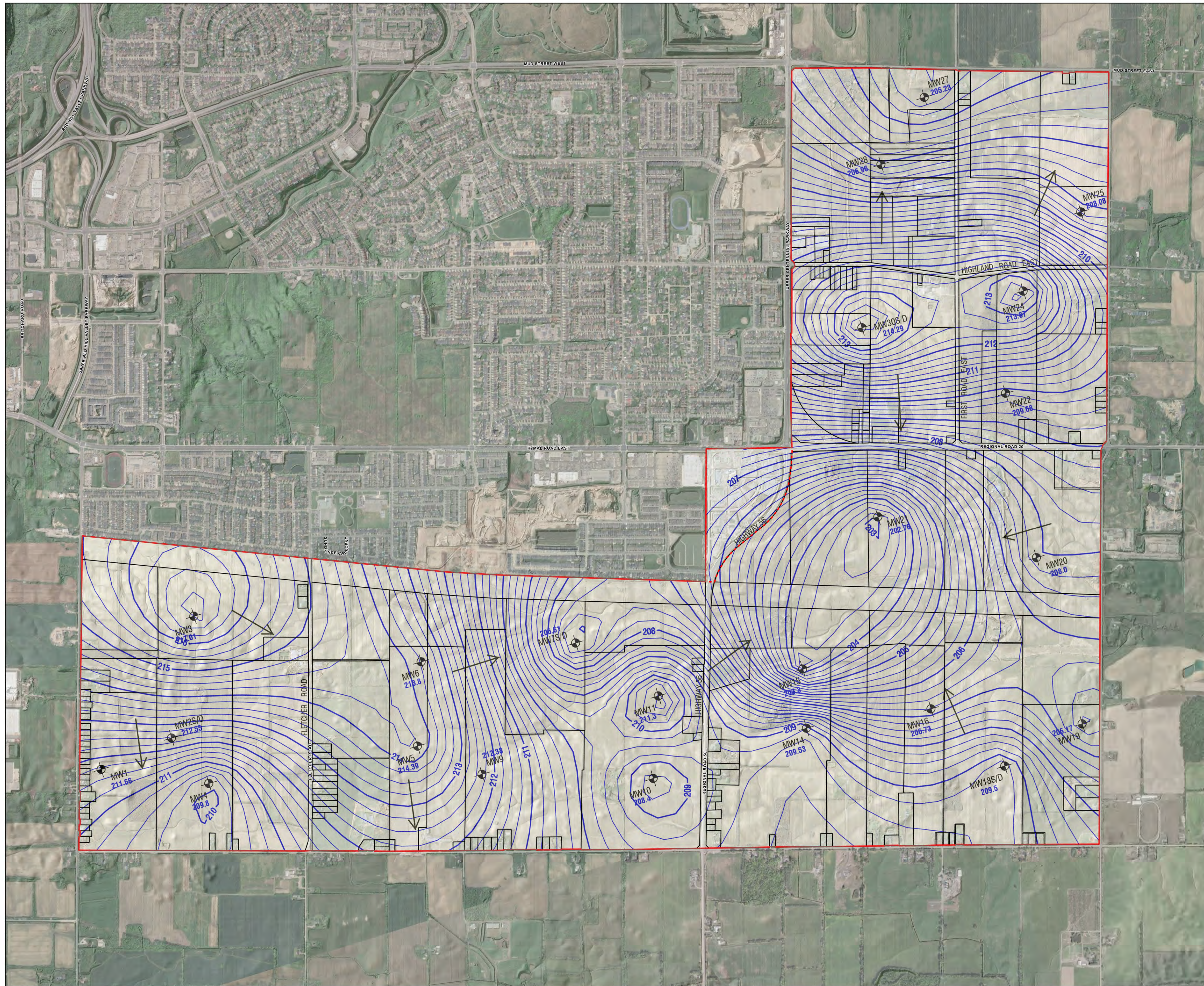
PROJECT **Elfrida Subwatershed Plan**



TITLE **Bedrock Contour Plan**

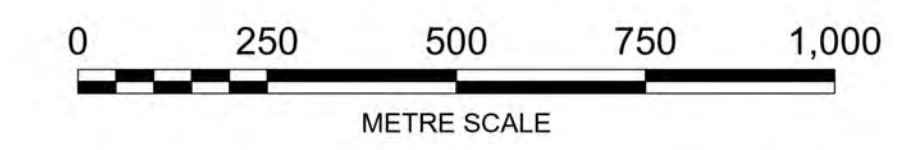
REF. NO. 2306301-3.5.8-1

Figure 3.5.8



- LEGEND**
- Study Area
 - Additional Lands (Unsurveyed)
 - Subject Property
 - Groundwater Contour
 - Approximate Location of Monitoring Well Installation Completed by Landtek Limited

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



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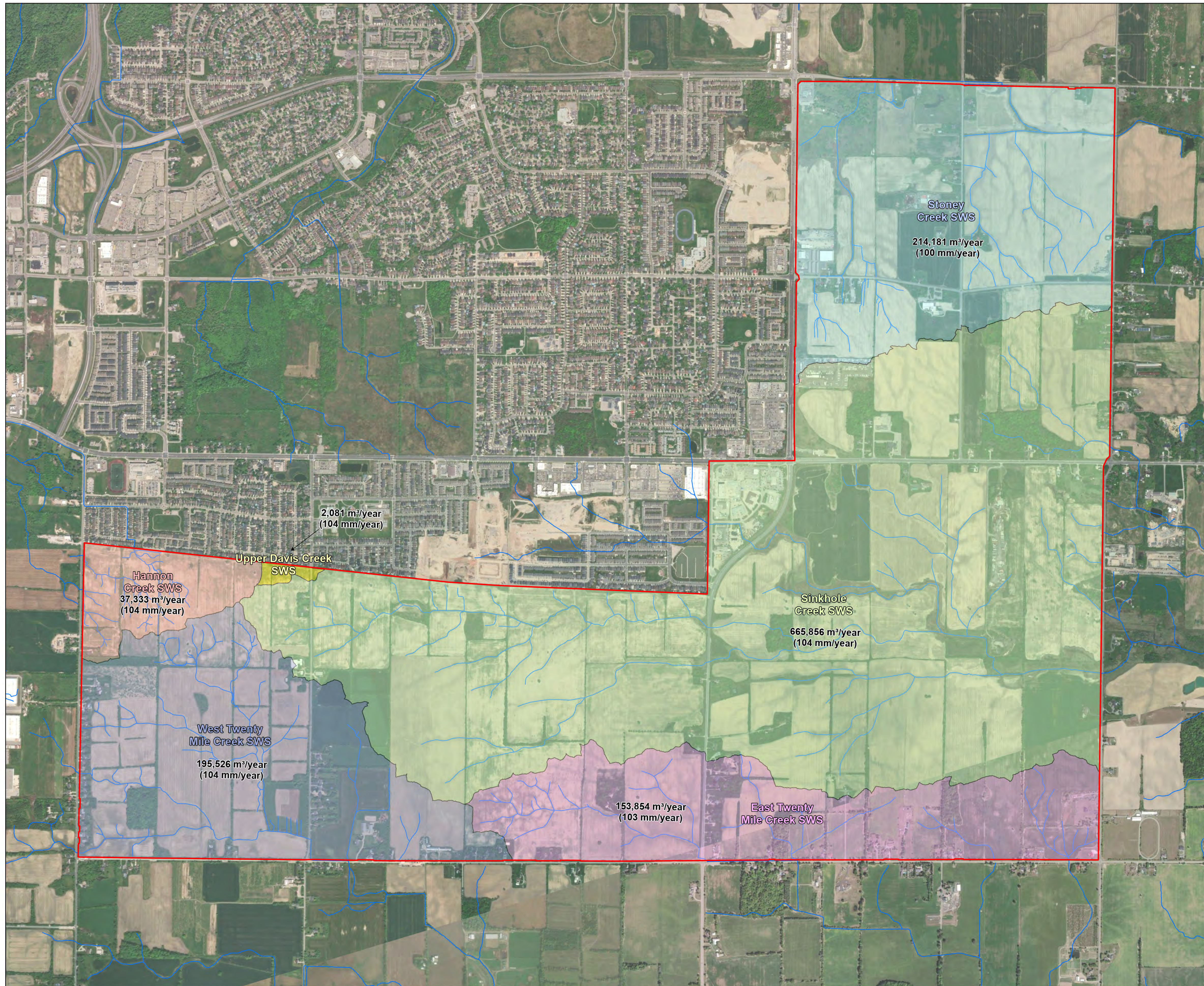
PROJECT
 Elfrida Subwatershed Plan



TITLE
**Groundwater Piezometry Contours
 (March 2025)**

REF. NO.
 2306301-3.5.9-1

Figure 3.5.9



LEGEND

- Study Area
- Drainage Feature¹

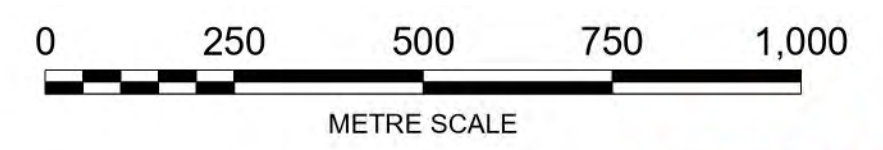
Subwatersheds

- Hannon Creek
- Sinkhole Creek
- Stoney Creek
- Upper Davis Creek
- West Twenty Mile Creek
- East Twenty Mile Creek

214,181 m³/year Annual Infiltration Volume
 (104 mm/year) Annual Infiltration Rate



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies.



DRAFT

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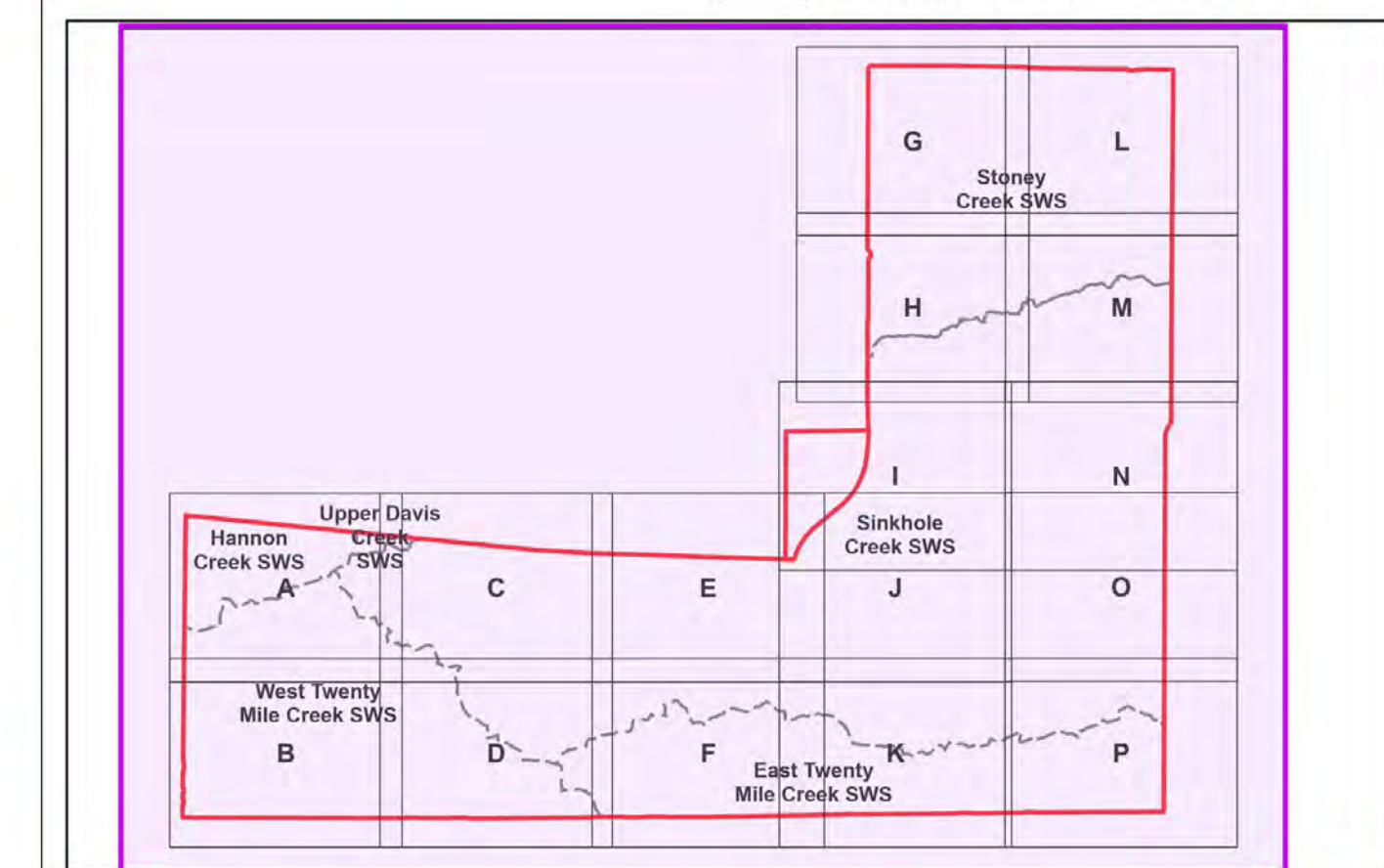
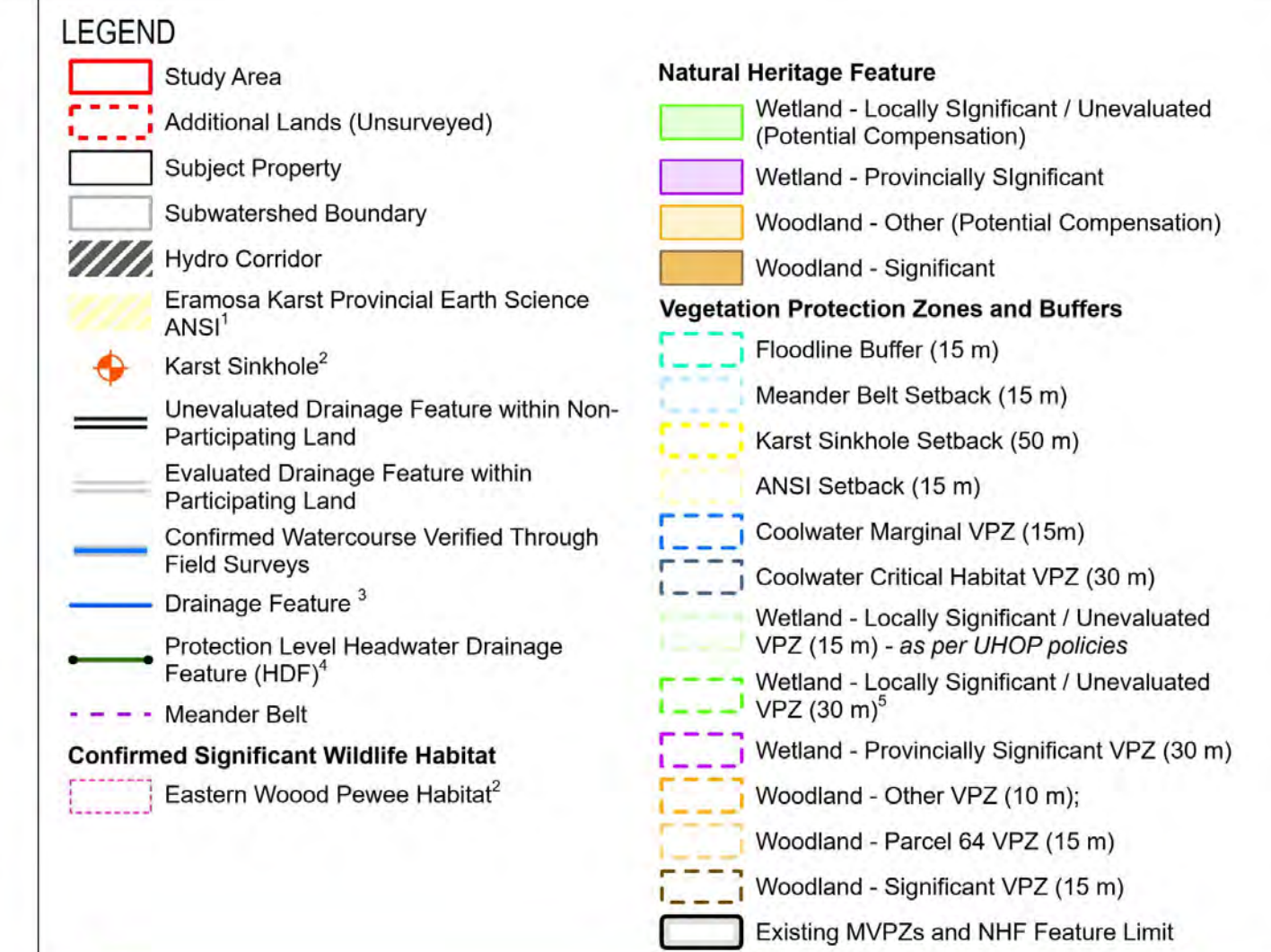
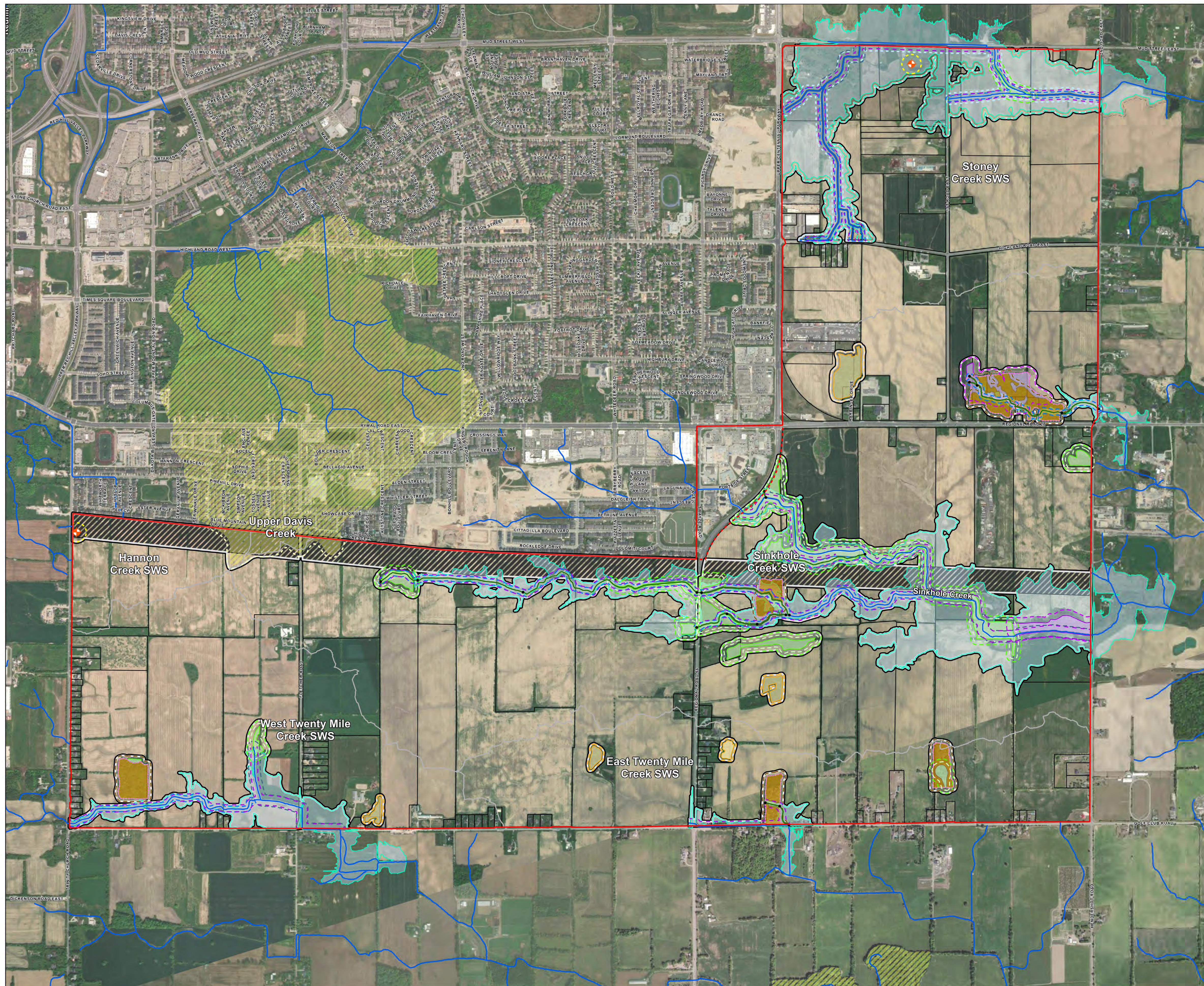
PROJECT
 Elfrida Subwatershed Plan



TITLE
Pre-Development Infiltration Targets

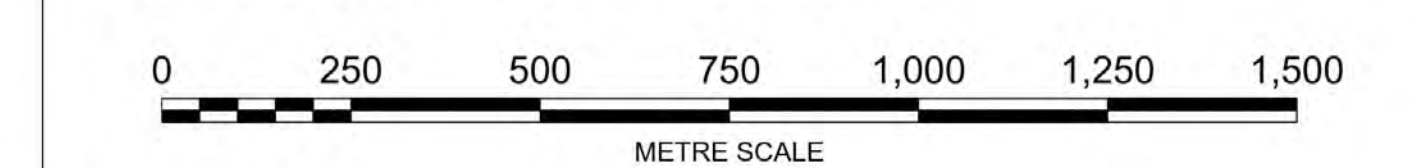
REF. NO.
 2306301-3-5-10-1

Figure 3.5.10



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.

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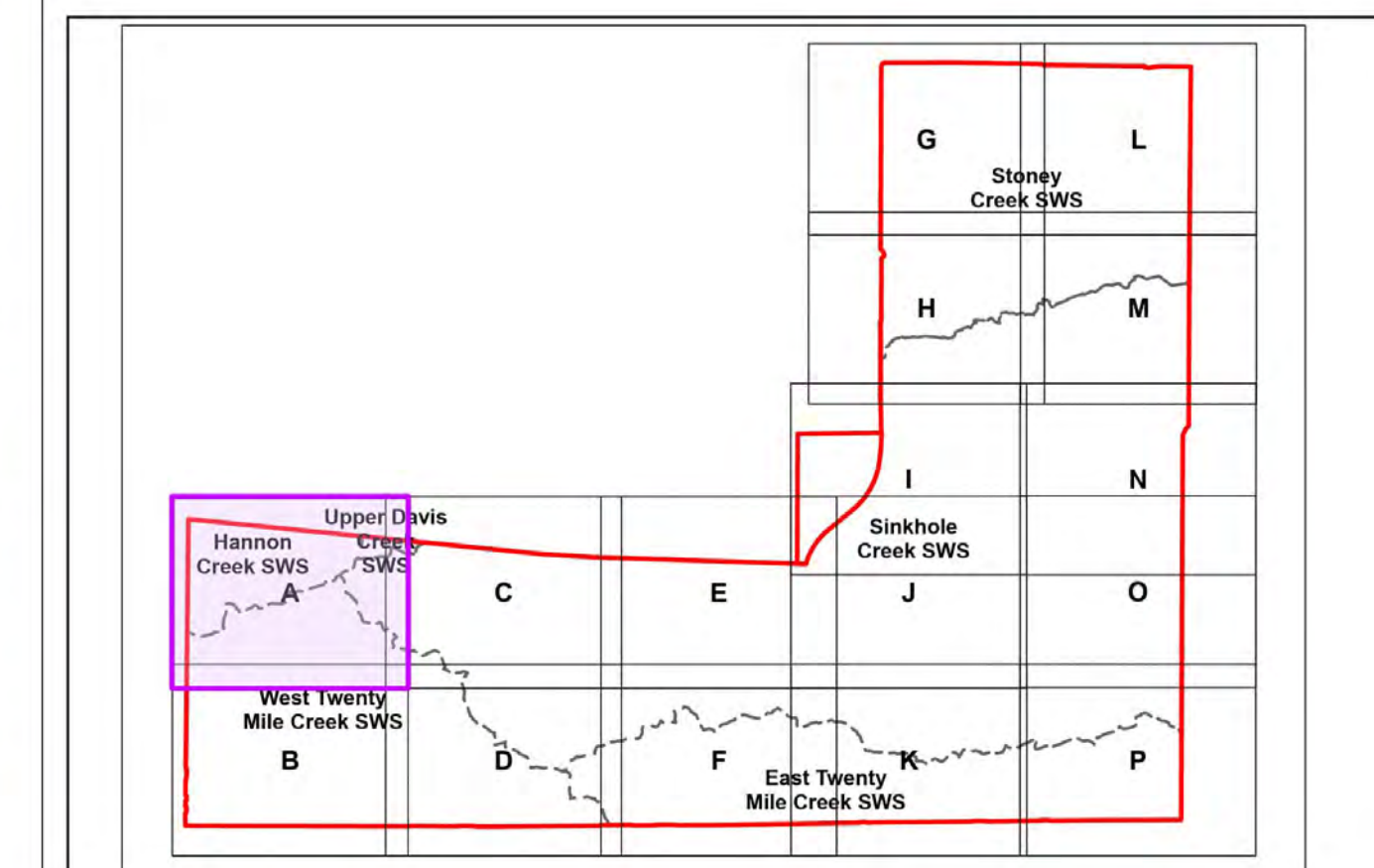
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CLIENT	Elfrida Community Builders Group Inc.
PROJECT	Elfrida Subwatershed Plan
TITLE	Existing Natural Heritage and Natural Hazards
REF. NO.	2306301-4.1.1 -1
Figure 4.1.1	



- LEGEND**
- Study Area
 - Subject Property
 - Subwatershed Boundary
 - Hydro Corridor
 - Eramosa Karst Provincial Earth Science ANSI¹
 - ◆ Karst Sinkhole²
 - Evaluated Drainage Feature within Participating Land
 - Confirmed Watercourse Verified Through Field Surveys
 - Drainage Feature³
- Vegetation Protection Zones and Buffers**
- Karst Sinkhole Setback (50 m)
 - ANSI Setback (15 m)
 - Existing MVPZs and NHF Feature Limit



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.

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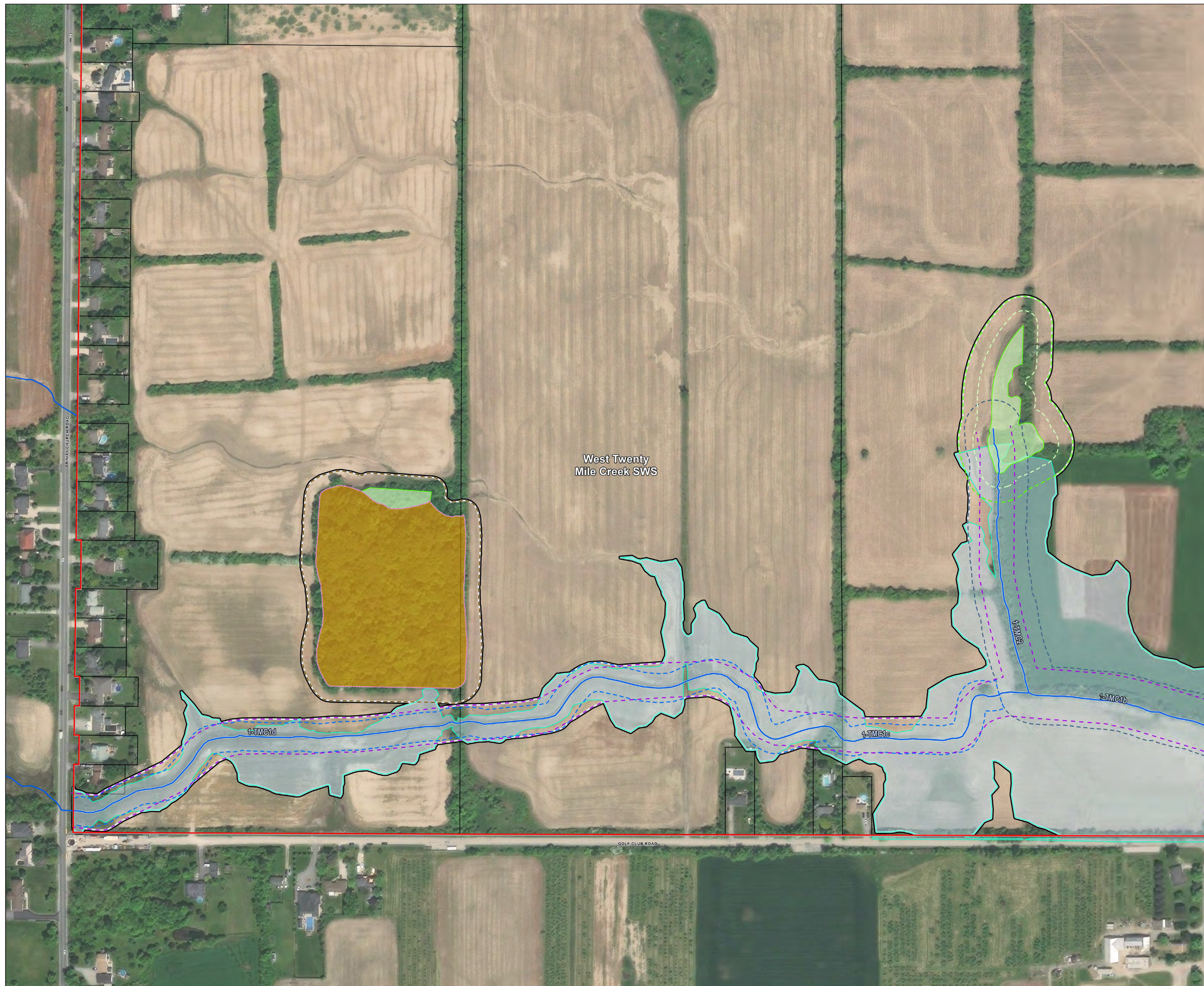
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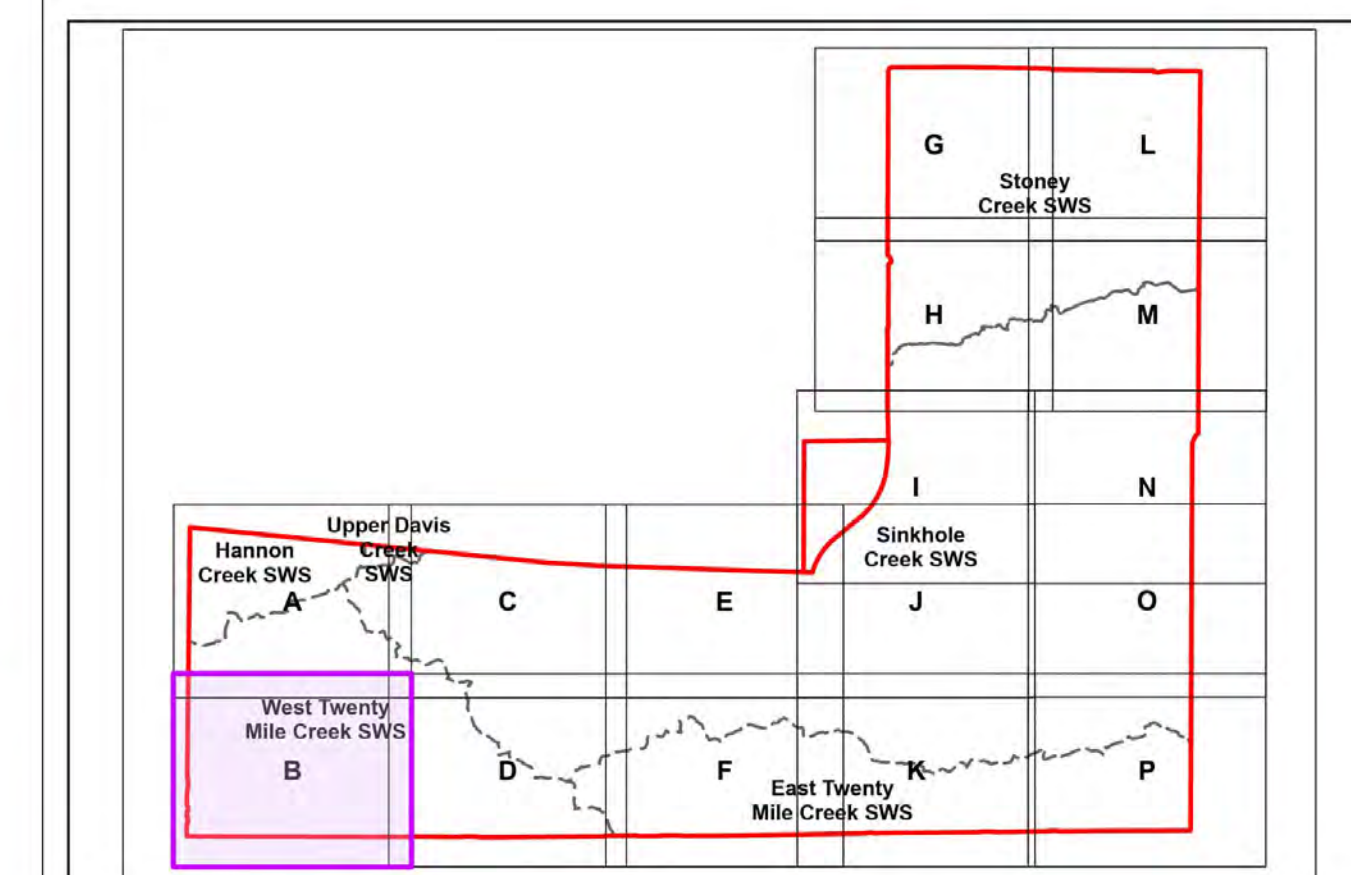
CLIENT
 Elfrida Community Builders Group Inc.

PROJECT
 Elfrida Subwatershed Plan

	TITLE Existing Natural Heritage and Natural Hazards
	REF. NO. 2306301-4.1.1A-1
	Figure 4.1.1 A



LEGEND	
	Study Area
	Subject Property
	Subwatershed Boundary
	Evaluated Drainage Feature within Participating Land
	Confirmed Watercourse Verified Through Field Surveys
	Drainage Feature ³
	Meander Belt
	Confirmed Significant Wildlife Habitat
	Eastern Wood Pewee Habitat ²
	Wetland - Locally Significant / Unevaluated (Potential Compensation)
	Woodland - Significant
	Coolwater Marginal VPZ (15m)
	Coolwater Critical Habitat VPZ (30 m)
	Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
	Woodland - Significant VPZ (15 m)
	Existing MVPZs and NHF Feature Limit



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary."

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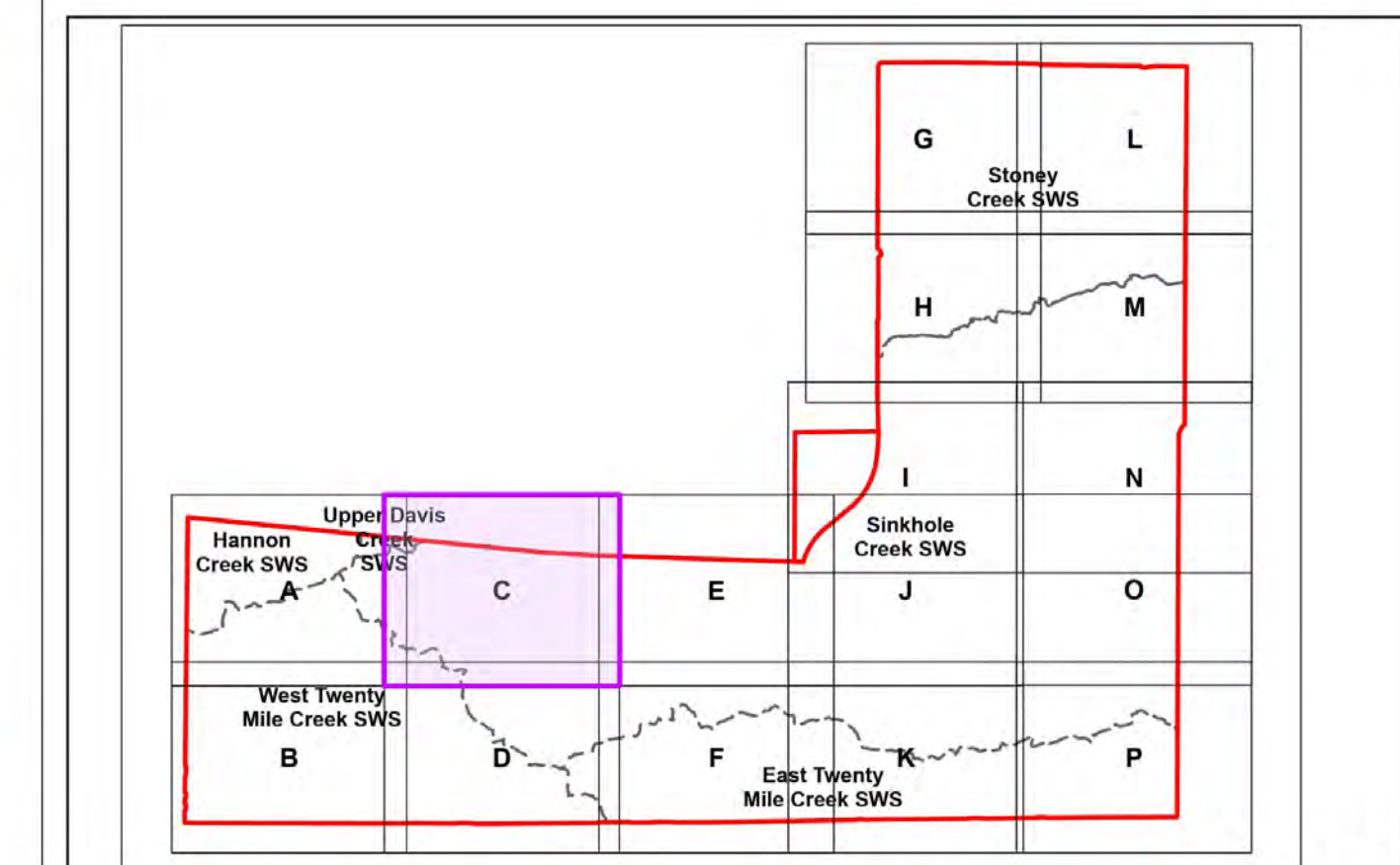
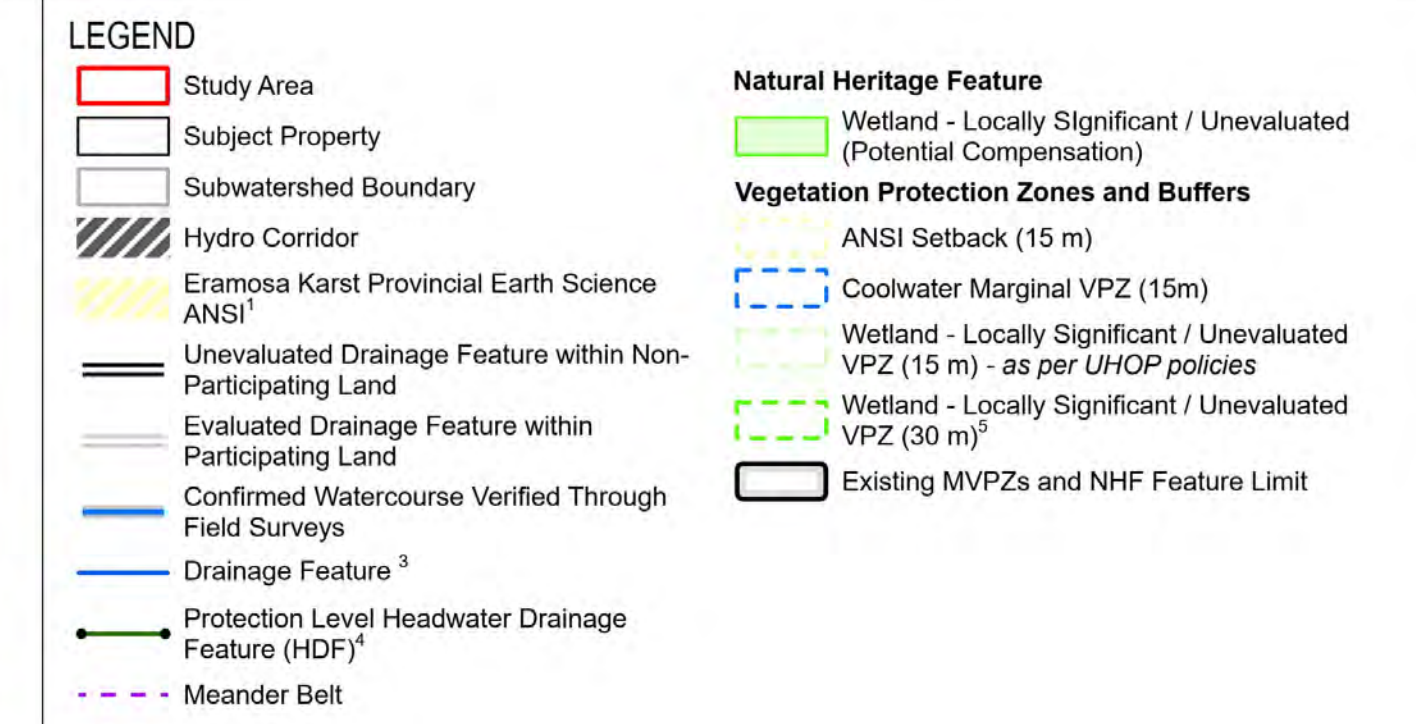
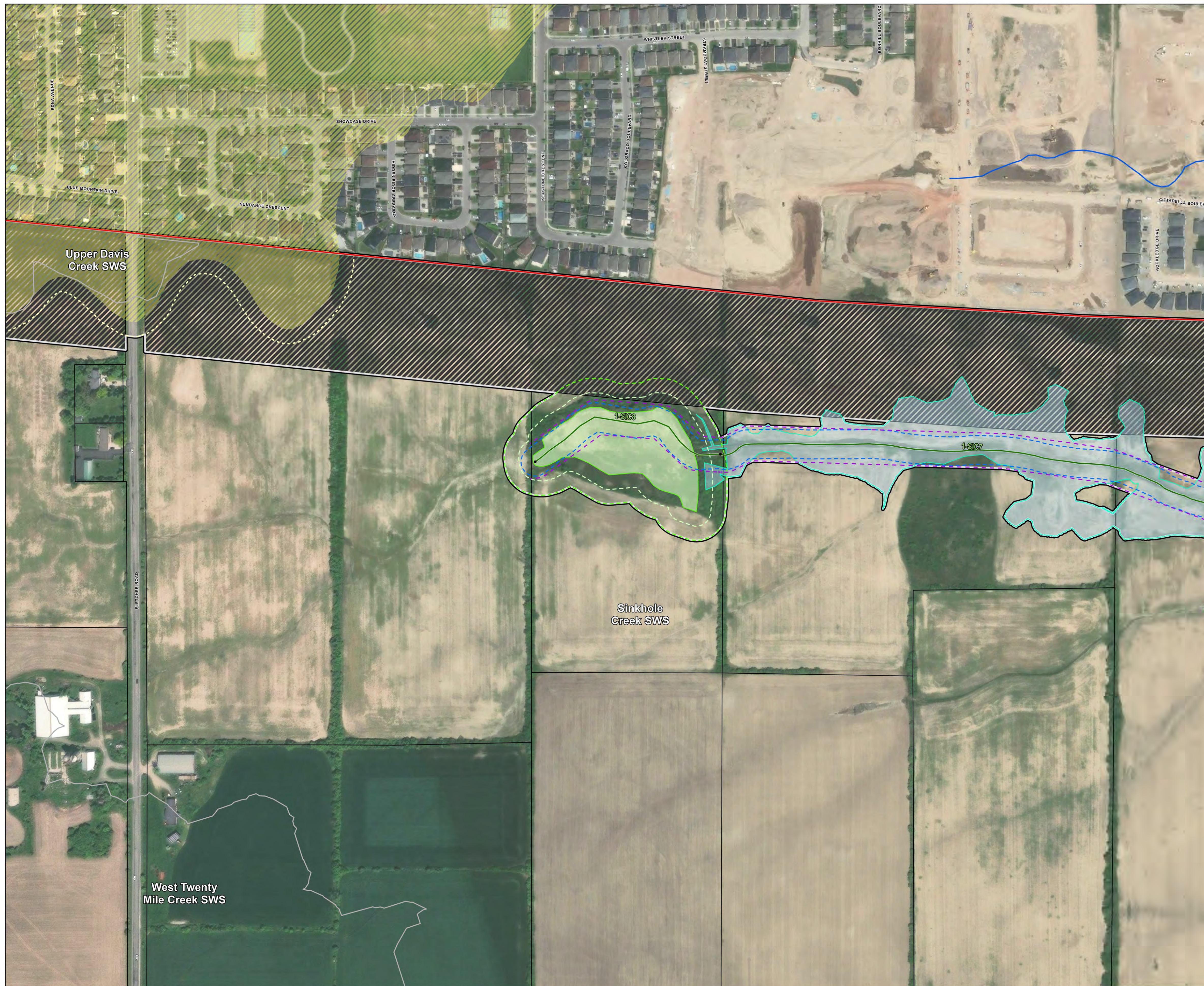
PROJECT
 Elfrida Subwatershed Plan



TITLE
 Existing Natural Heritage and Natural Hazards

REF. NO.
 2306301-4.1.1B-1

Figure 4.1.1 B



- 1 - Geohub Ontario
- 2 - Verified through 2023-2025 field investigations
- 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
- 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
- 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.*

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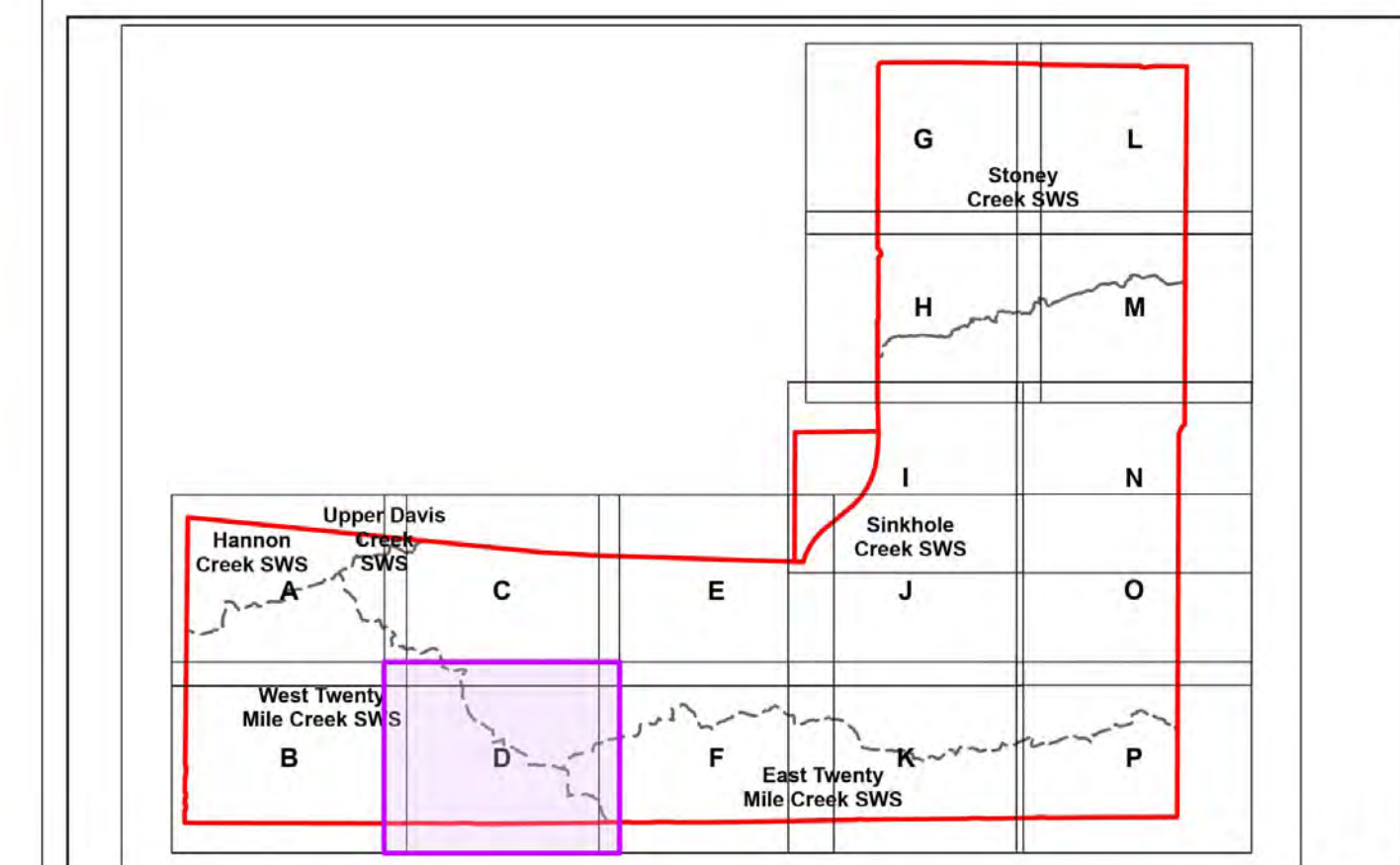
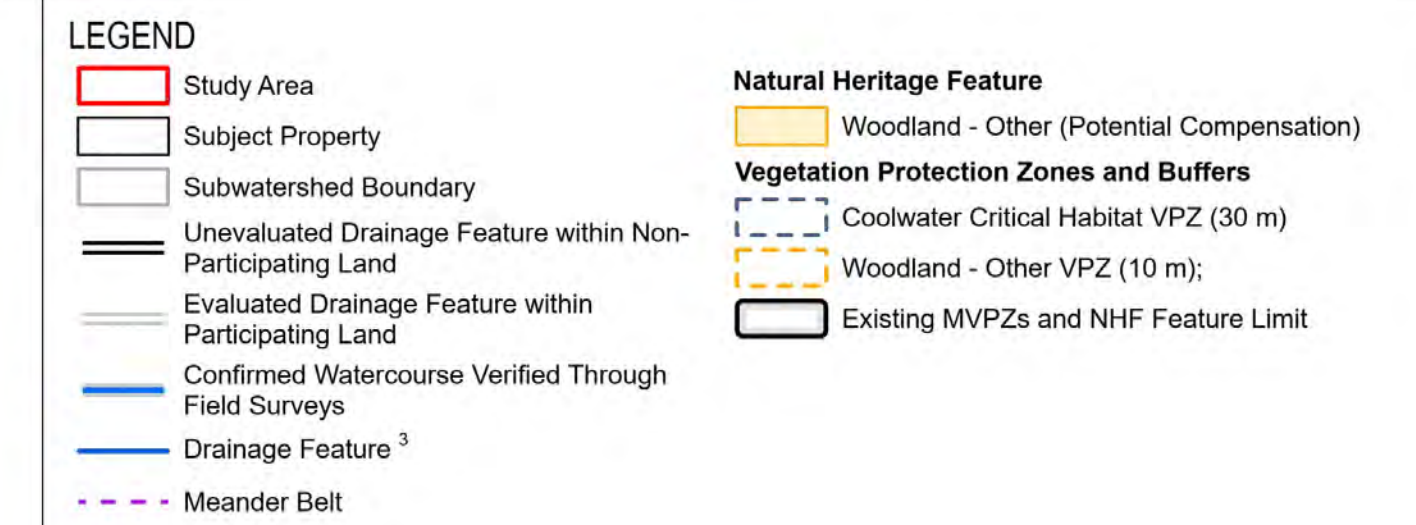
PROJECT
Elfrida Subwatershed Plan



TITLE
**Existing Natural Heritage
and Natural Hazards**

REF. NO. 2306301-4.1.1C-1

Figure 4.1.1 C



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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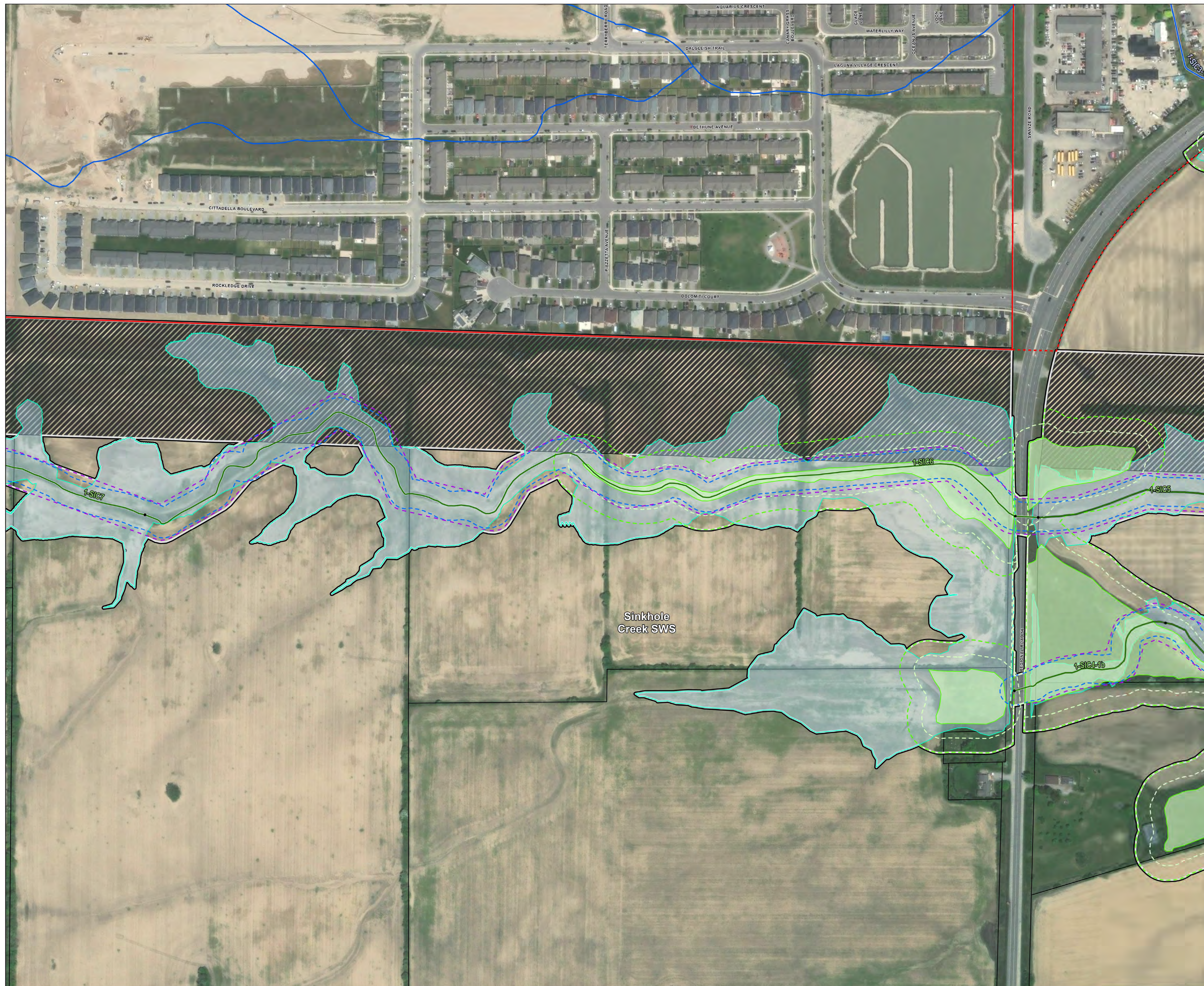
PROJECT
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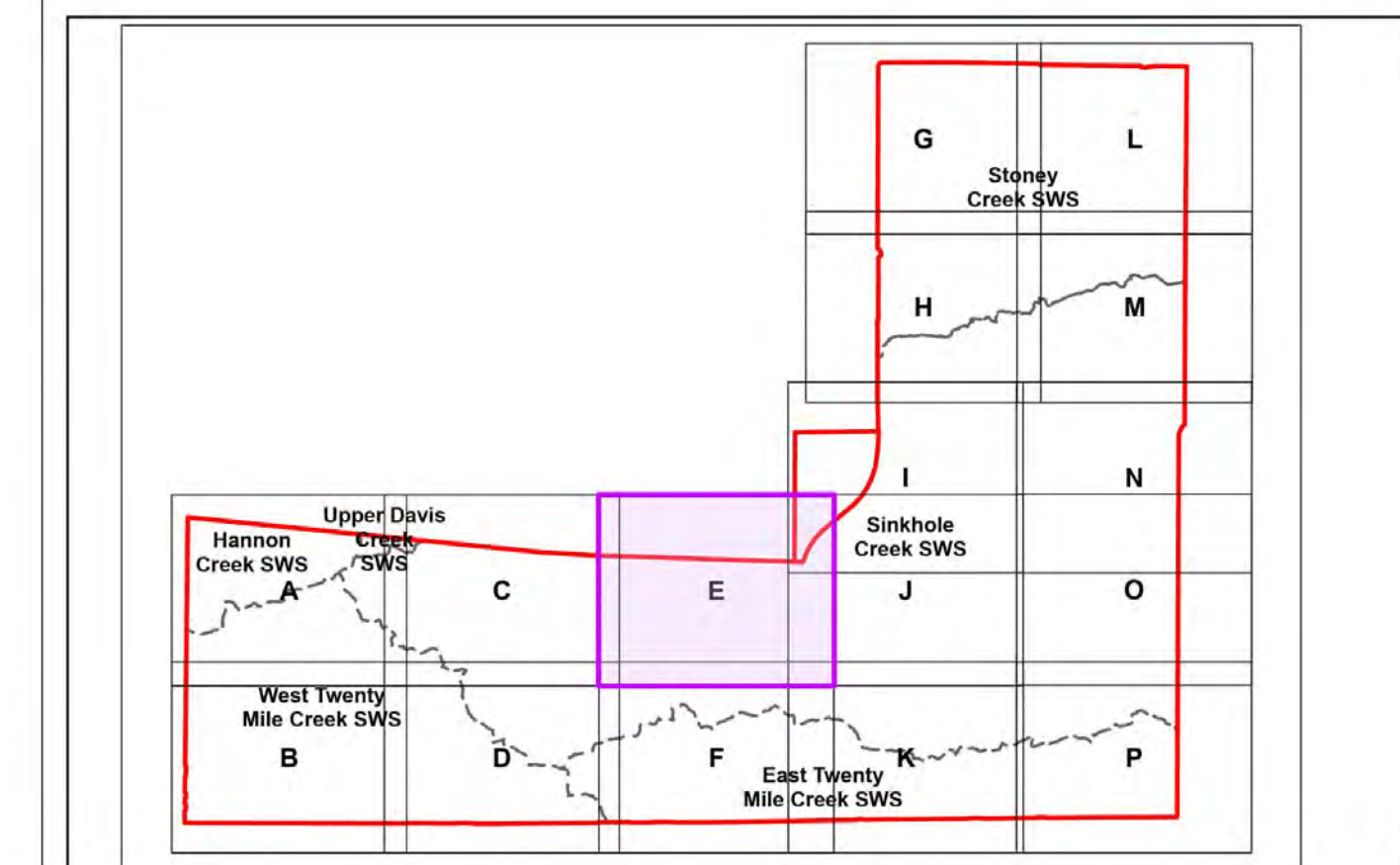
TITLE
 Existing Natural Heritage and Natural Hazards

REF. NO.
 2306301-4.1.1D-1

Figure 4.1.1 D



- LEGEND**
- Study Area
 - Additional Lands (Unsurveyed)
 - Subject Property
 - Subwatershed Boundary
 - Hydro Corridor
 - Unevaluated Drainage Feature within Non-Participating Land
 - Evaluated Drainage Feature within Participating Land
 - Confirmed Watercourse Verified Through Field Surveys
 - Drainage Feature³
 - Protection Level Headwater Drainage Feature (HDF)⁴
 - Meander Belt
- Natural Heritage Feature**
- Wetland - Locally Significant / Unevaluated (Potential Compensation)
- Vegetation Protection Zones and Buffers**
- Coolwater Marginal VPZ (15m)
 - Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
 - Wetland - Locally Significant / Unevaluated VPZ (30 m)⁵
 - Existing MVPZs and NHF Feature Limit



- 1 - Geohub Ontario
- 2 - Verified through 2023-2025 field investigations
- 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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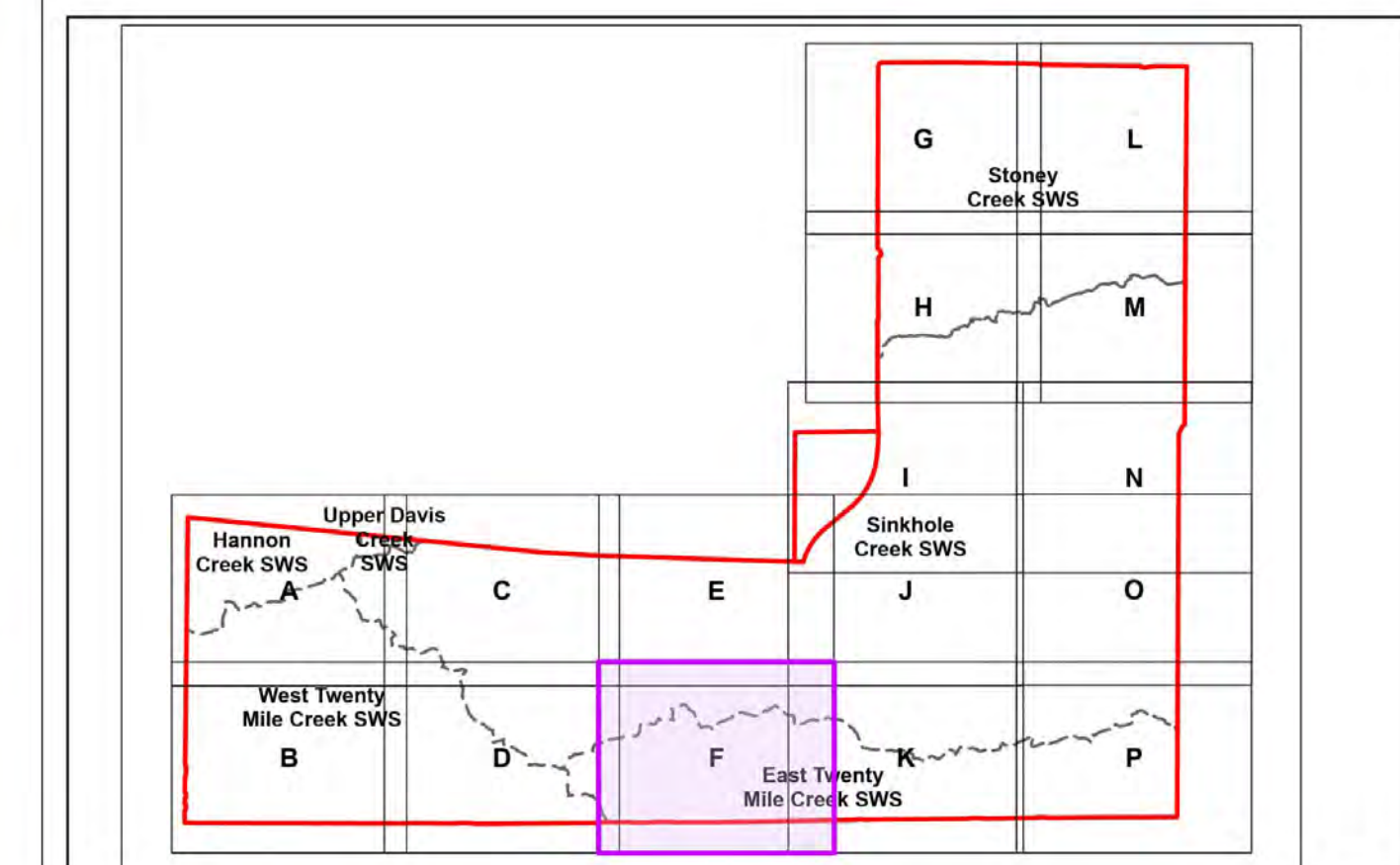
TITLE
Existing Natural Heritage and Natural Hazards

REF. NO. 2306301-4.1.1E-1

Figure 4.1.1 E



LEGEND	
	Study Area
	Subject Property
	Subwatershed Boundary
	Evaluated Drainage Feature within Participating Land
	Confirmed Watercourse Verified Through Field Surveys
	Drainage Feature ³
	Meander Belt
	Natural Heritage Feature Woodland - Other (Potential Compensation)
	Vegetation Protection Zones and Buffers Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
	Woodland - Other VPZ (10 m);
	Existing MVPZs and NHF Feature Limit



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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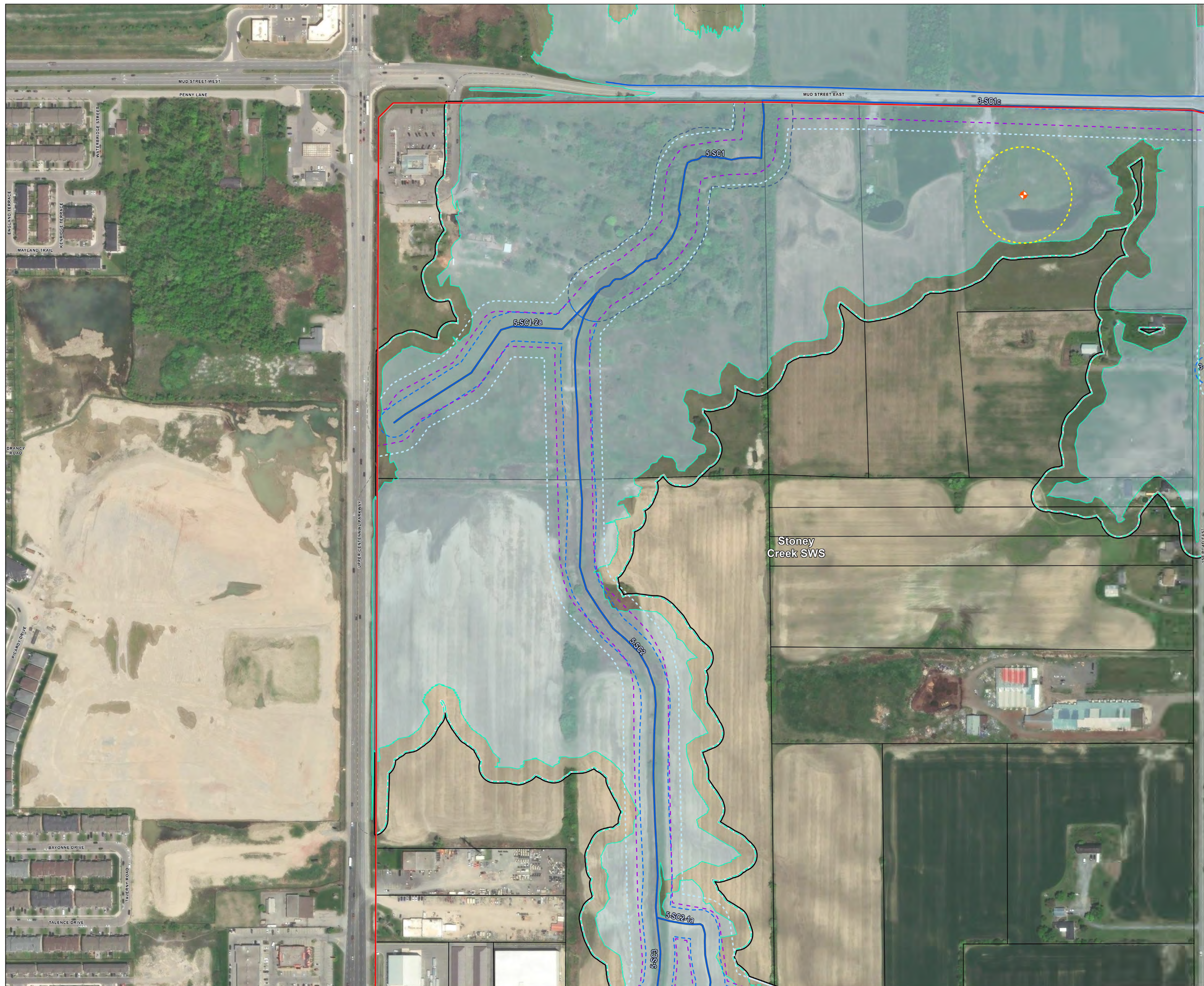
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TITLE
 Existing Natural Heritage and Natural Hazards

REF. NO.
 2306301-4.1.1F-1

Figure 4.1.1 F

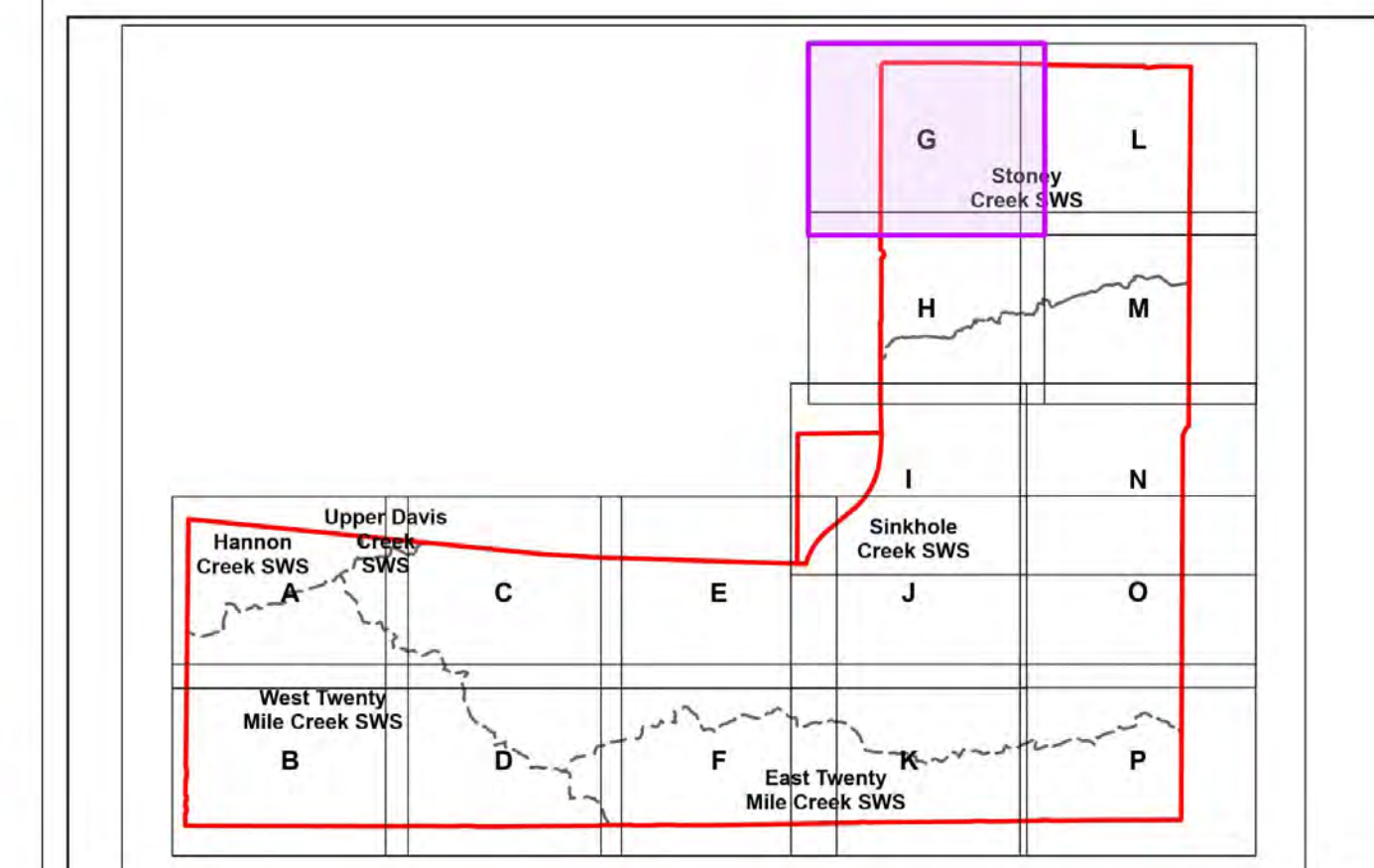


LEGEND

- Study Area
- Subject Property
- Subwatershed Boundary
- ★ Karst Sinkhole²
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land
- Confirmed Watercourse Verified Through Field Surveys
- Drainage Feature³
- Meander Belt

Vegetation Protection Zones and Buffers

- Floodline Buffer (15 m)
- Meander Belt Setback (15 m)
- Karst Sinkhole Setback (50 m)
- Coolwater Marginal VPZ (15m)
- Coolwater Critical Habitat VPZ (30 m)
- Existing MVPZs and NHF Feature Limit



- 1 - Geohub Ontario
- 2 - Verified through 2023-2025 field investigations
- 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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Elfrida Subwatershed Plan



TITLE
Existing Natural Heritage and Natural Hazards

REF. NO. 2306301-4.1.1G-1

Figure 4.1.1 G



LEGEND

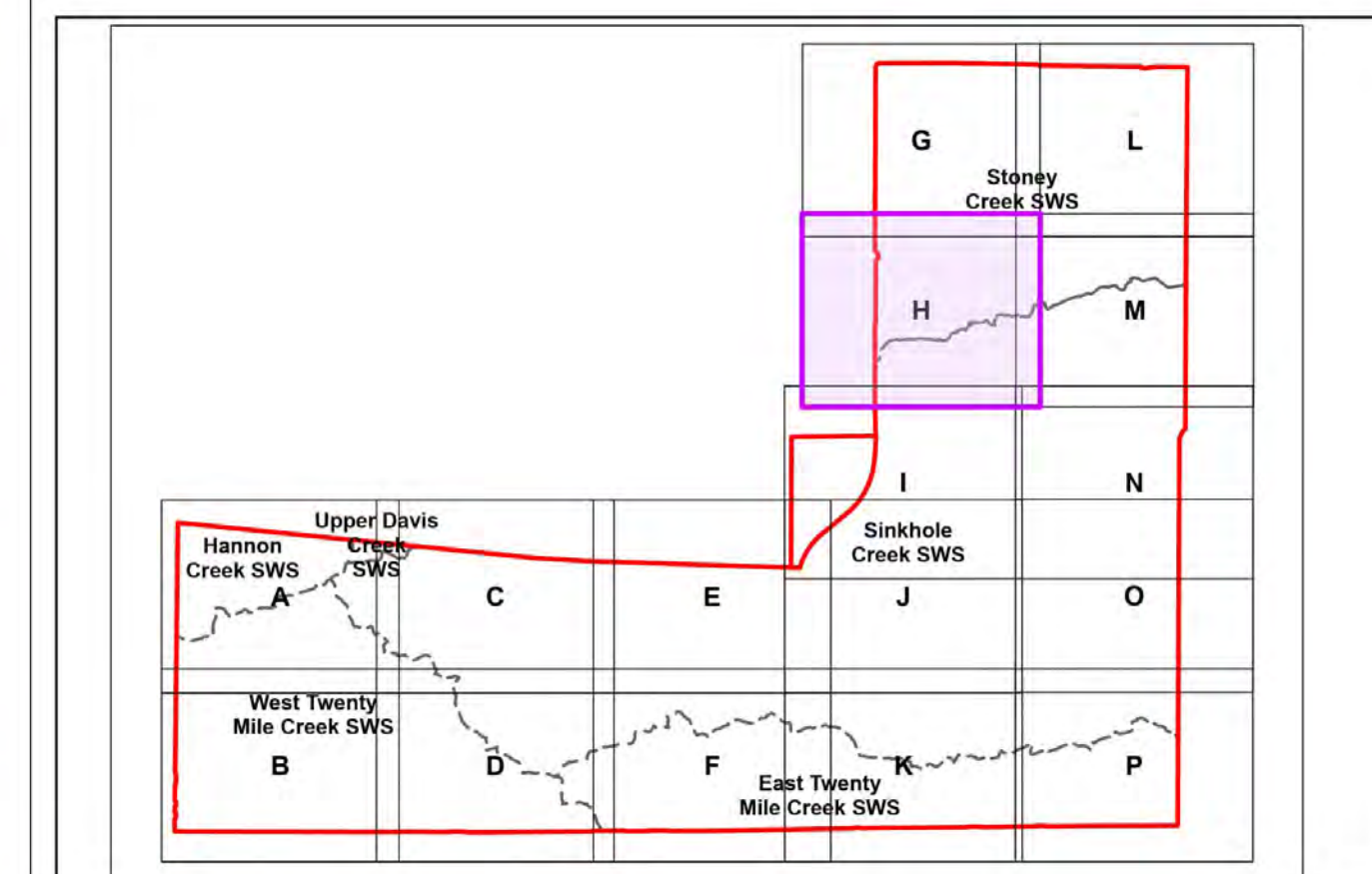
- Study Area
- Subject Property
- Subwatershed Boundary
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land
- Confirmed Watercourse Verified Through Field Surveys
- Drainage Feature ³
- Meander Belt

Natural Heritage Feature

- Woodland - Other (Potential Compensation)

Vegetation Protection Zones and Buffers

- Floodline Buffer (15 m)
- Meander Belt Setback (15 m)
- Coolwater Marginal VPZ (15m)
- Woodland - Parcel 64 VPZ (15 m)
- Existing MVPZs and NHF Feature Limit



- 1 - Geohub Ontario
- 2 - Verified through 2023-2025 field investigations
- 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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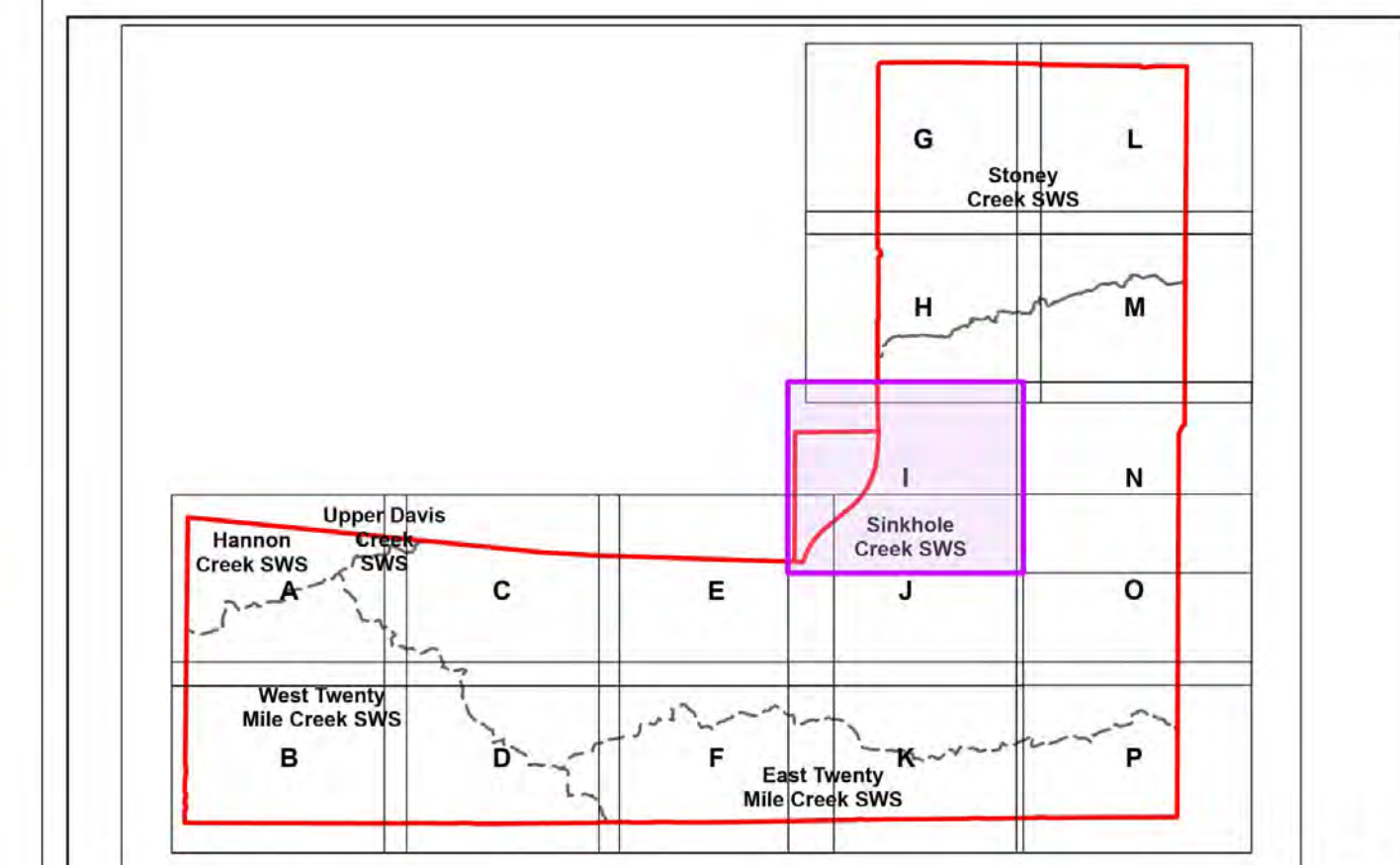
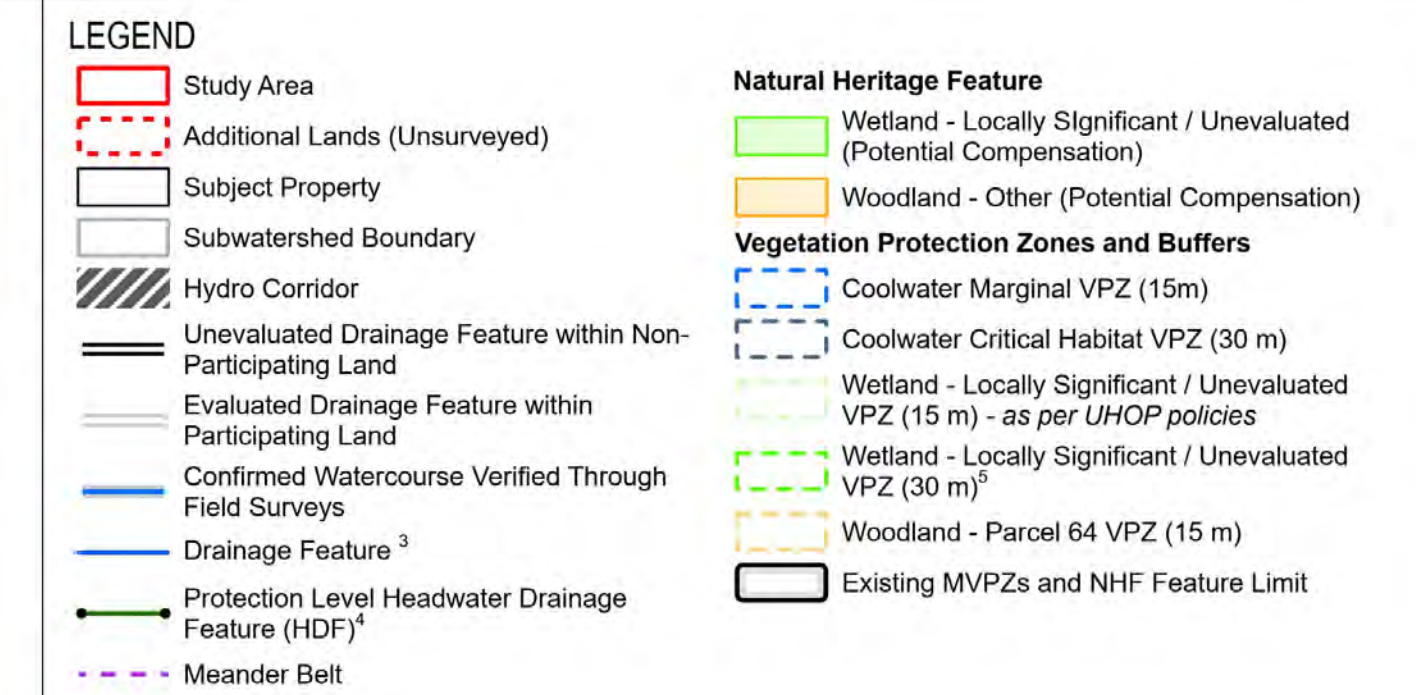
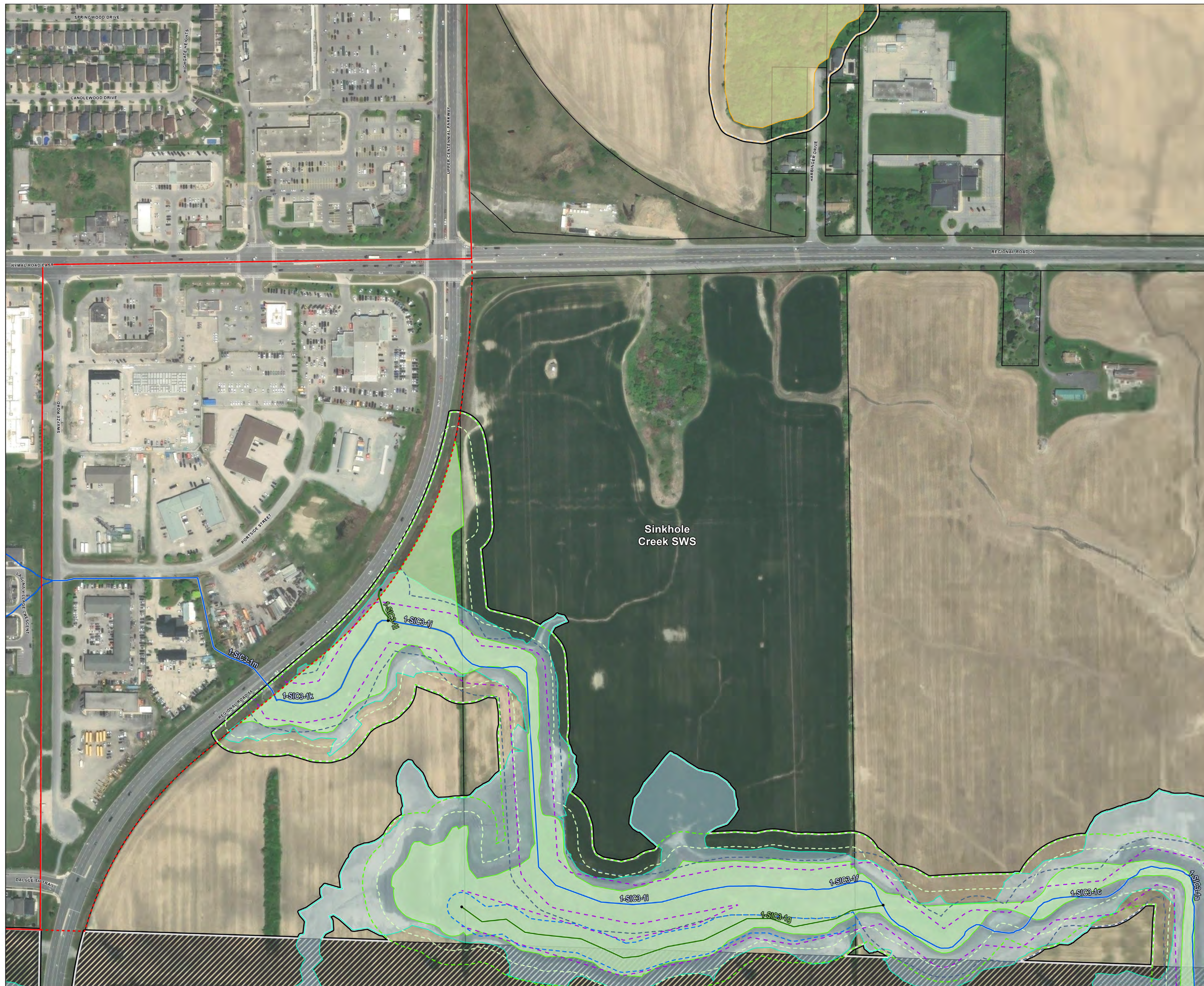
PROJECT
Elfrida Subwatershed Plan



TITLE
**Existing Natural Heritage
and Natural Hazards**

REF. NO. 2306301-4.1.1H-1

Figure 4.1.1 H



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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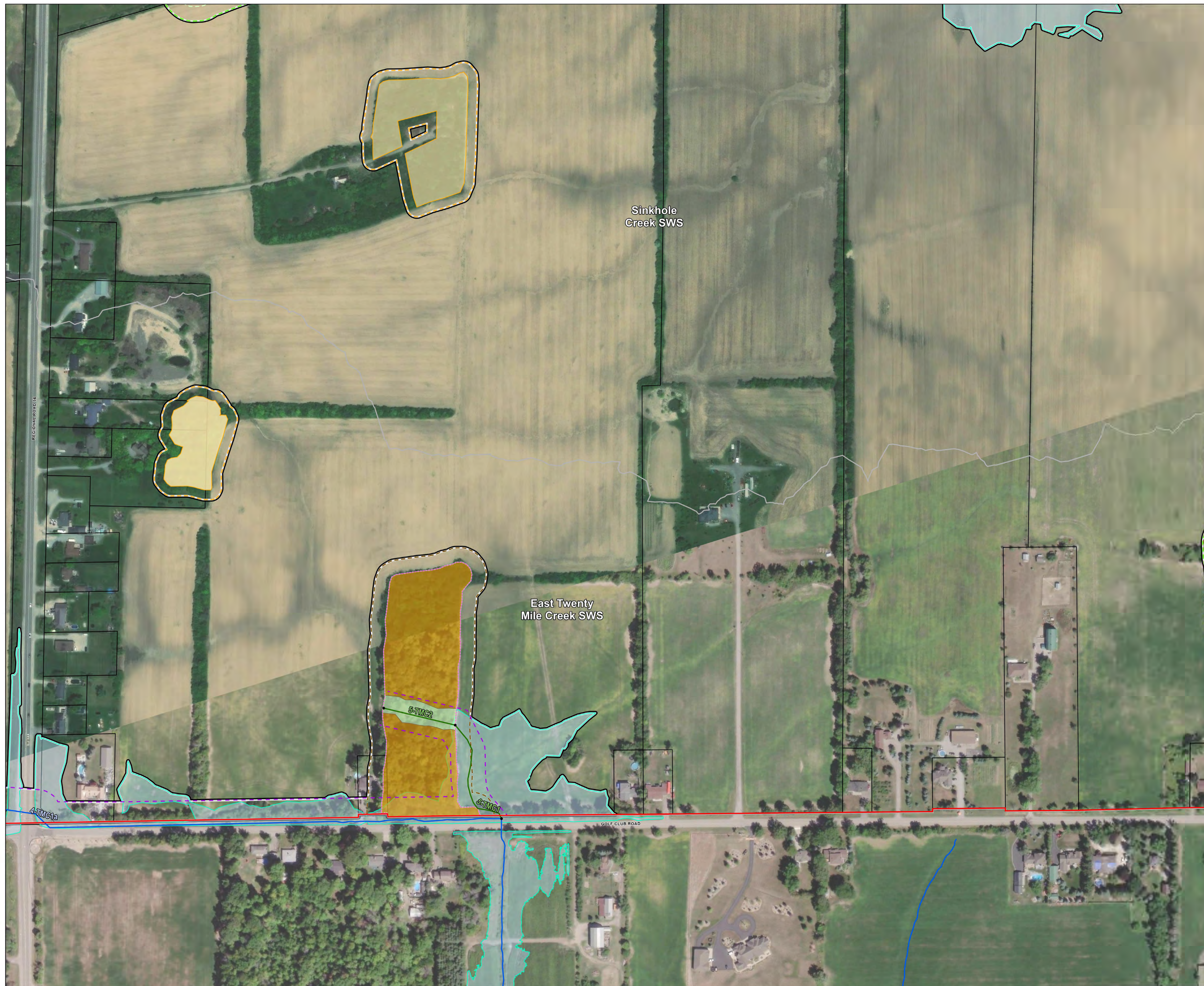
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TITLE
 Existing Natural Heritage and Natural Hazards

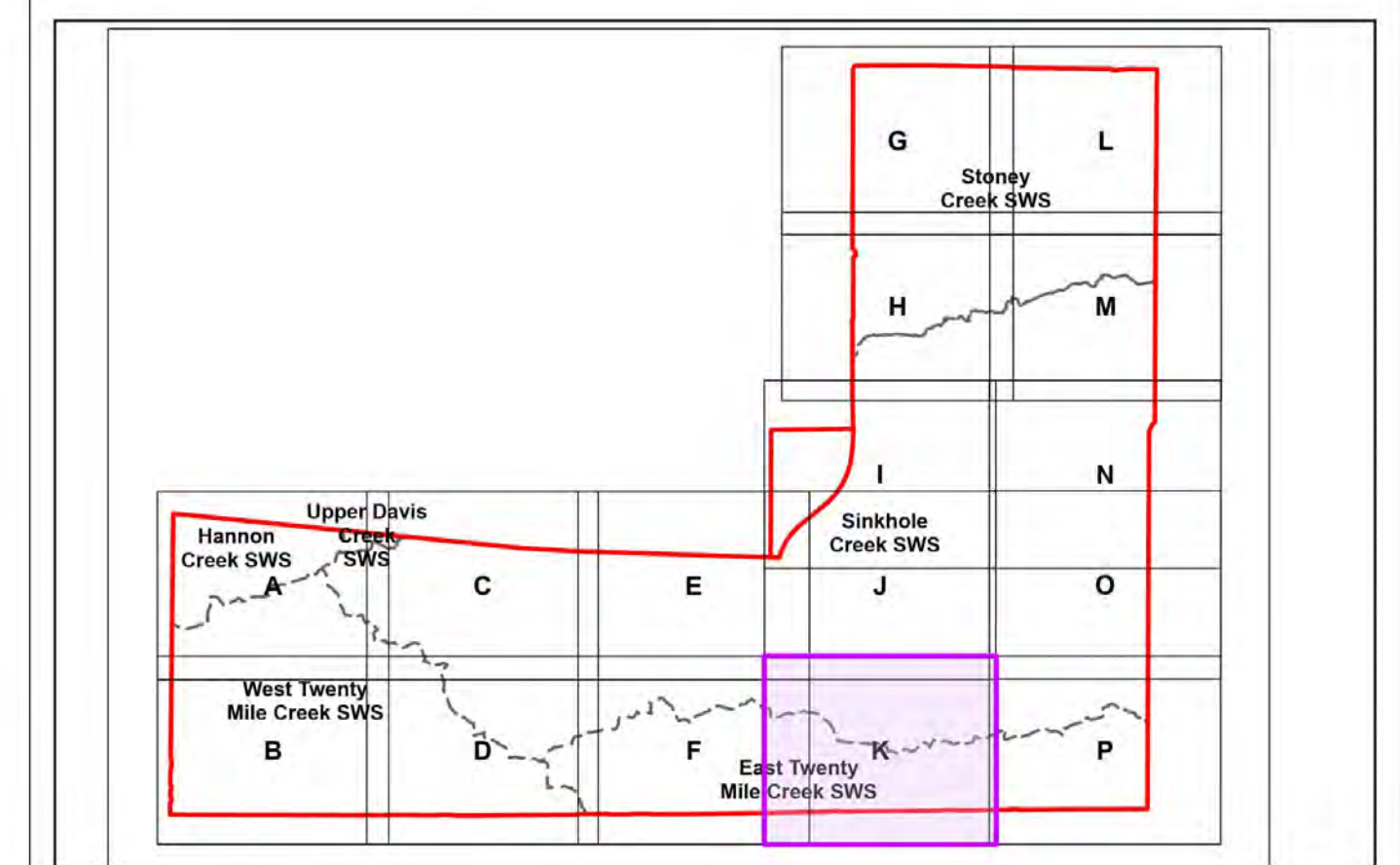
REF. NO.
 2306301-4.1.1I-1

Figure 4.1.1 I



LEGEND

Study Area	Natural Heritage Feature
Subject Property	Wetland - Locally Significant / Unevaluated (Potential Compensation)
Subwatershed Boundary	Woodland - Other (Potential Compensation)
Evaluated Drainage Feature within Participating Land	Woodland - Significant
Confirmed Watercourse Verified Through Field Surveys	Vegetation Protection Zones and Buffers
Drainage Feature ³	Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
Protection Level Headwater Drainage Feature (HDF) ⁴	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
Meander Belt	Woodland - Other VPZ (10 m);
Confirmed Significant Wildlife Habitat	Woodland - Significant VPZ (15 m)
Eastern Wood Pewee Habitat ²	Existing MVPZs and NHF Feature Limit



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.
NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



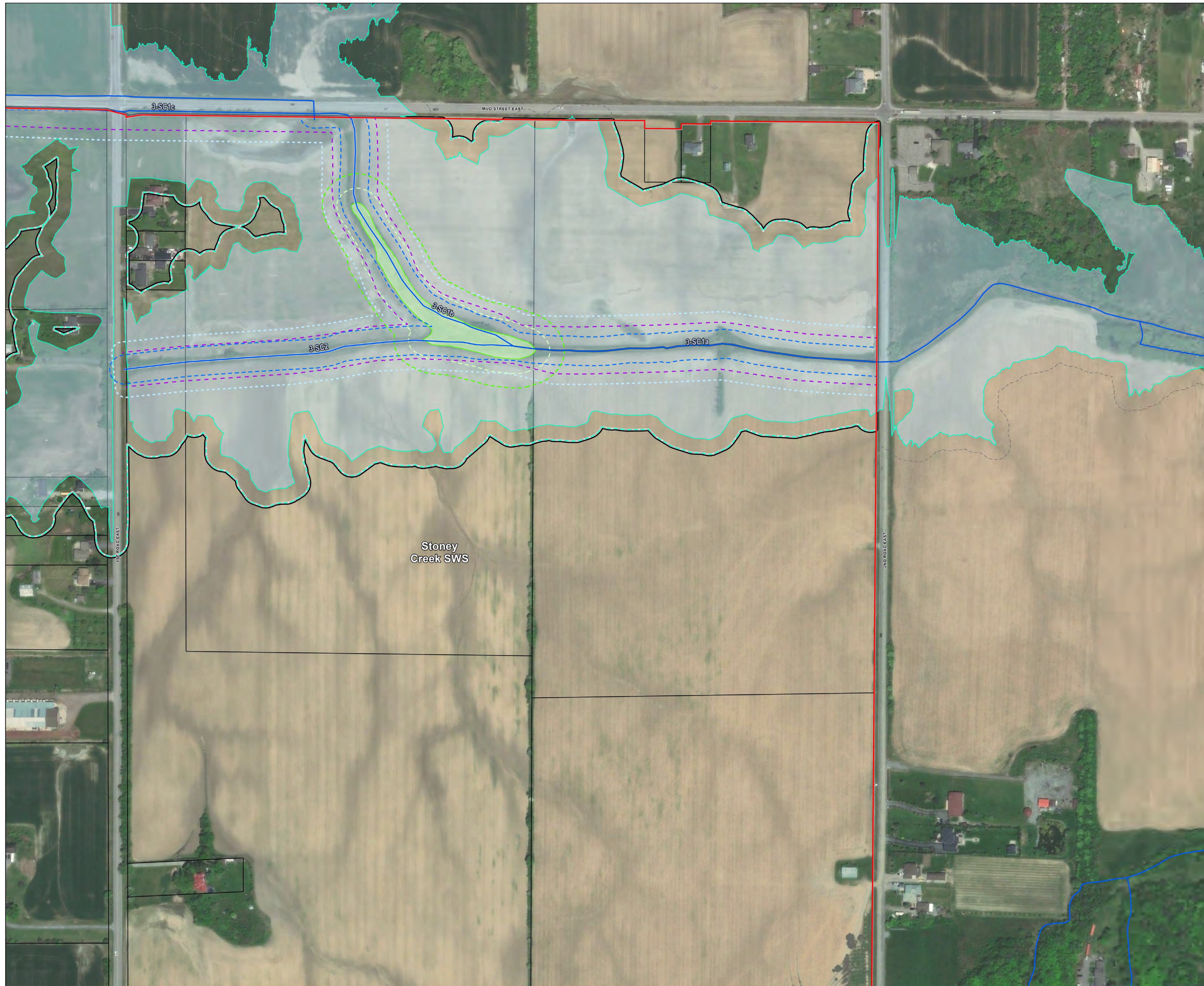
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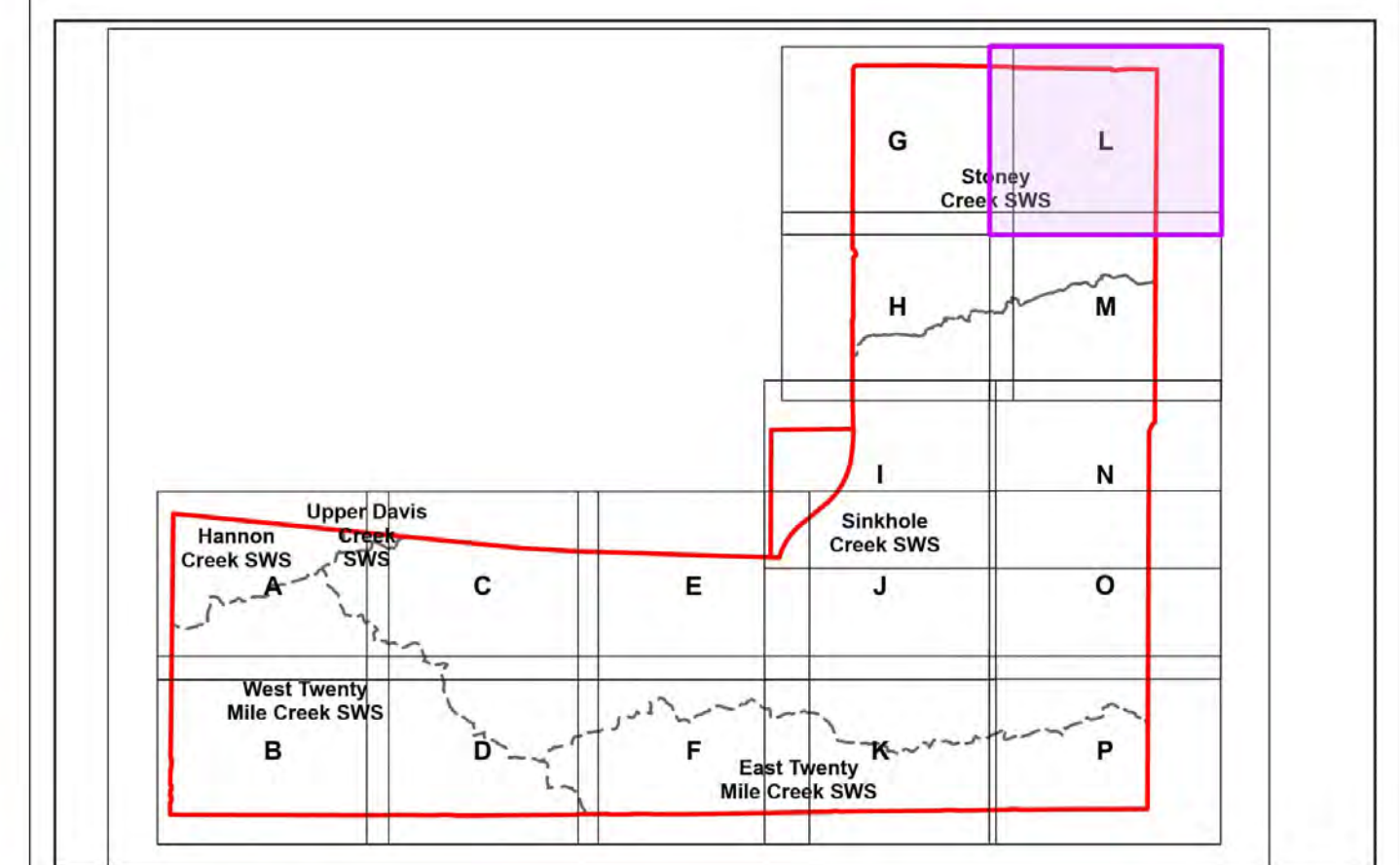
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CLIENT	Elfrida Community Builders Group Inc.
PROJECT	Elfrida Subwatershed Plan
	TITLE Existing Natural Heritage and Natural Hazards
	REF. NO. 2306301-4.1.1K-1
Figure 4.1.1 K	



LEGEND

Study Area	Natural Heritage Feature
Subject Property	Wetland - Locally Significant / Unevaluated (Potential Compensation)
Subwatershed Boundary	Vegetation Protection Zones and Buffers
Unevaluated Drainage Feature within Non-Participating Land	Floodline Buffer (15 m)
Evaluated Drainage Feature within Participating Land	Meander Belt Setback (15 m)
Confirmed Watercourse Verified Through Field Surveys	Coolwater Marginal VPZ (15m)
Drainage Feature ³	Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
Meander Belt	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
	Existing MVPZs and NHF Feature Limit



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 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.
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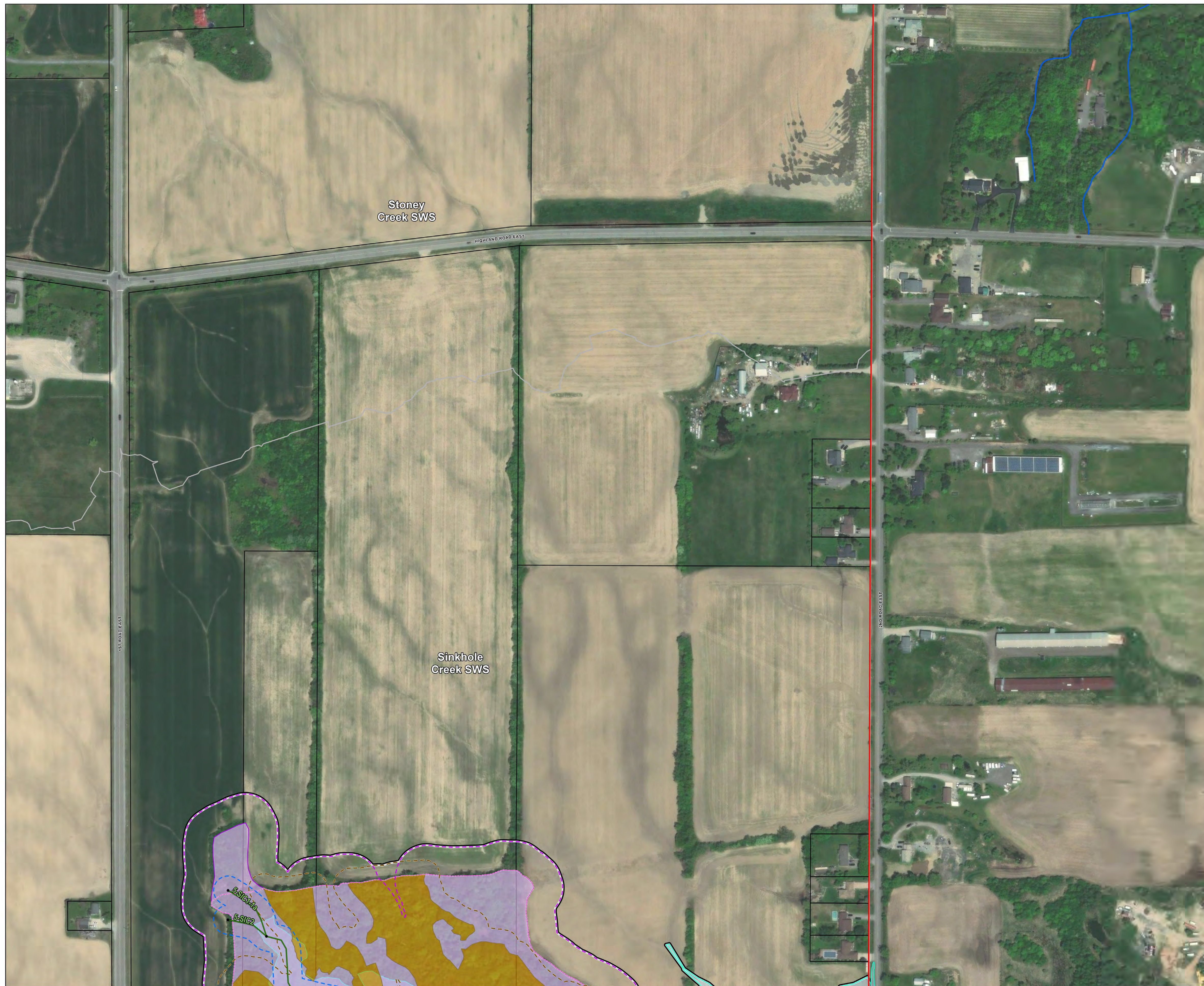
PROJECT
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TITLE
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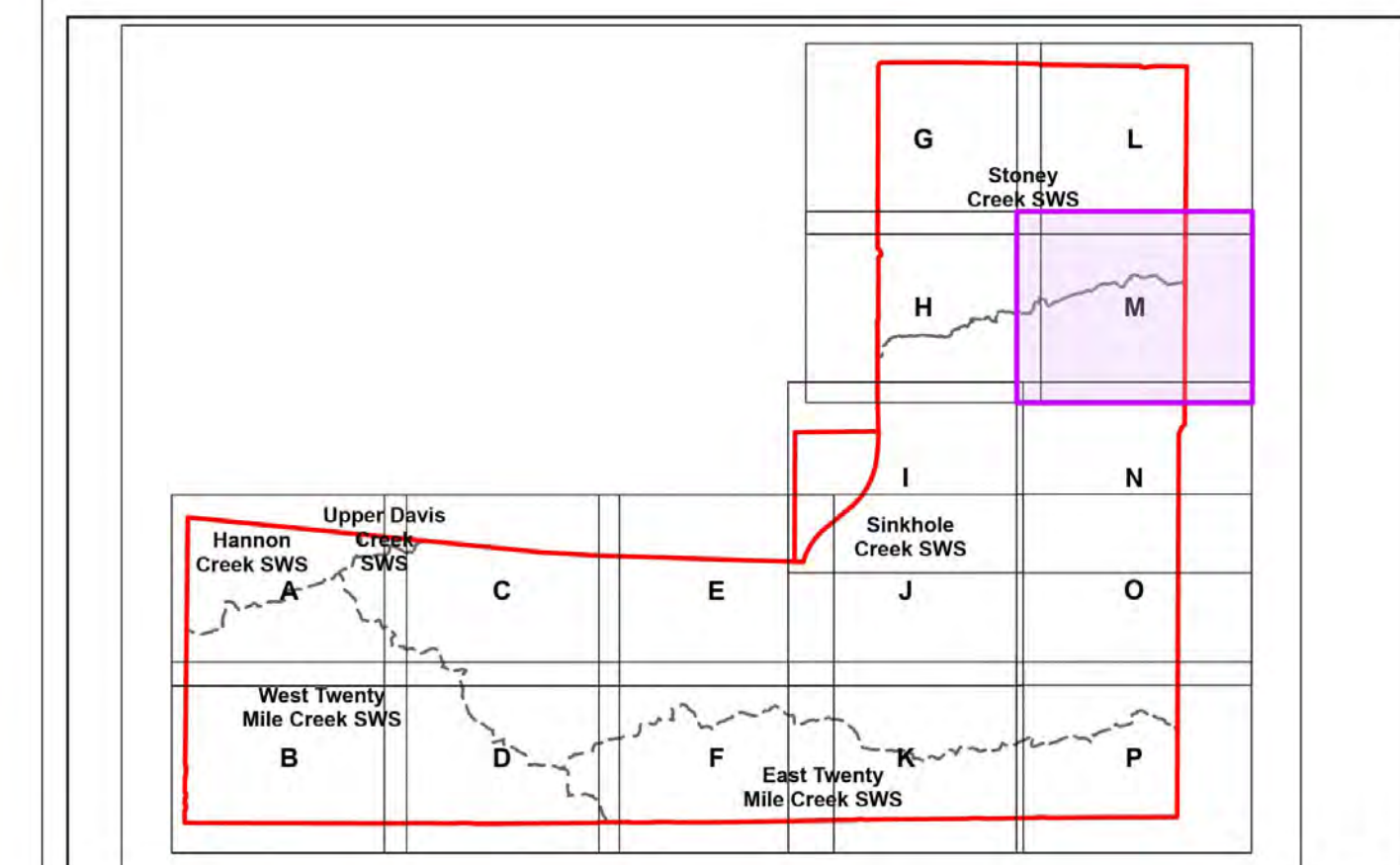
REF. NO.
 2306301-4.1.1L-1

Figure 4.1.1 L



LEGEND

Study Area	Natural Heritage Feature Wetland - Provincially Significant
Subject Property	Woodland - Significant
Subwatershed Boundary	Vegetation Protection Zones and Buffers
Unevaluated Drainage Feature within Non-Participating Land	Coolwater Marginal VPZ (15m)
Evaluated Drainage Feature within Participating Land	Wetland - Provincially Significant VPZ (30 m)
Confirmed Watercourse Verified Through Field Surveys	Woodland - Significant VPZ (15 m)
Drainage Feature ³	Existing MVPZs and NHF Feature Limit
Protection Level Headwater Drainage Feature (HDF) ⁴	
Confirmed Significant Wildlife Habitat	
Eastern Wood Pewee Habitat ²	



- 1 - Geohub Ontario
- 2 - Verified through 2023-2025 field investigations
- 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
- 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
- 5 - A 15 m VPZ has been applied to locally significant and unevaluated wetlands as per UHOP policies (which are still subject to Conservation Authority and Municipal approvals). Note that up to a 30 m VPZ may be required as per NPCA and HCA policies, should the findings of future site-specific EIS and Conservation Authority deem necessary.⁵

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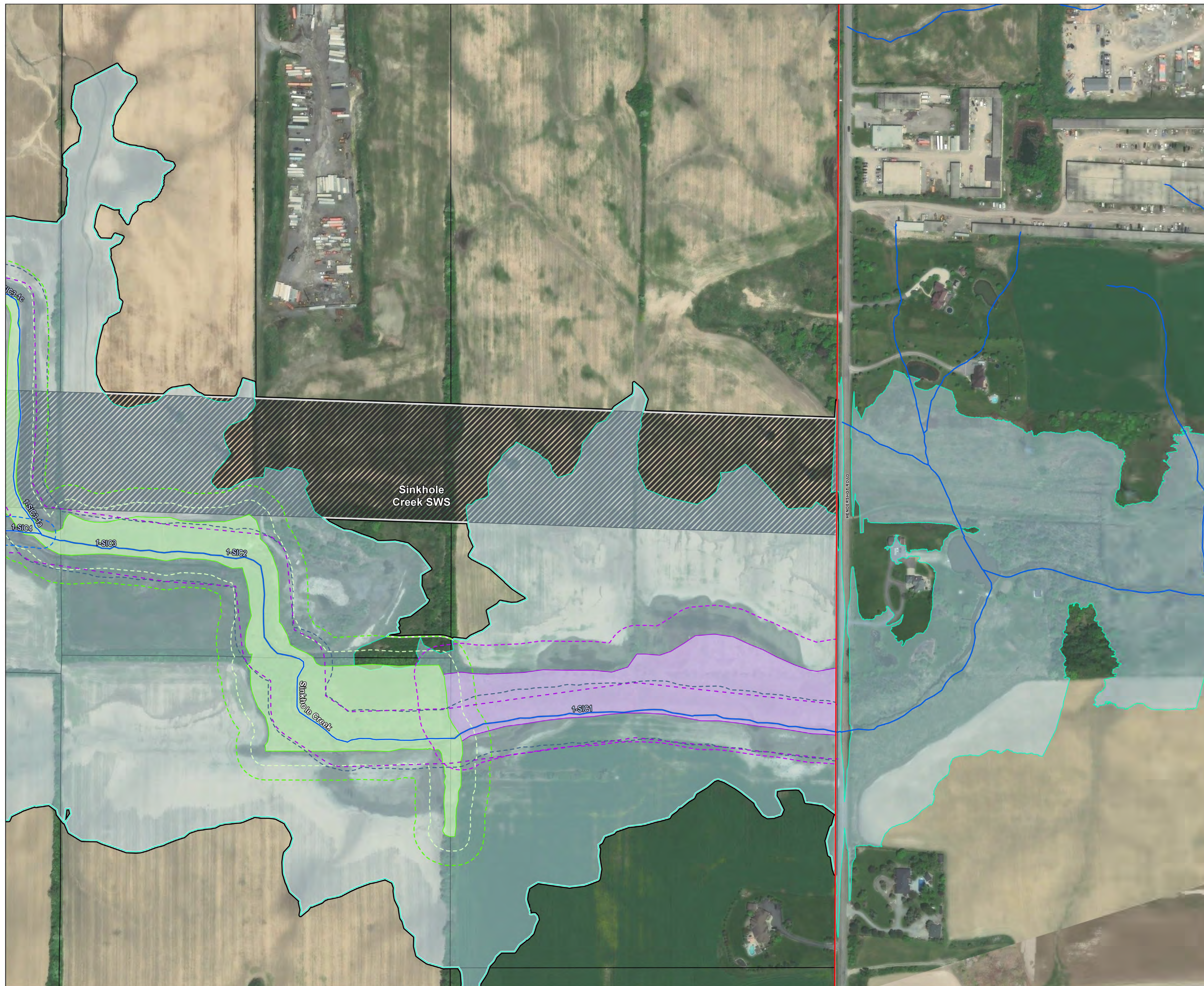
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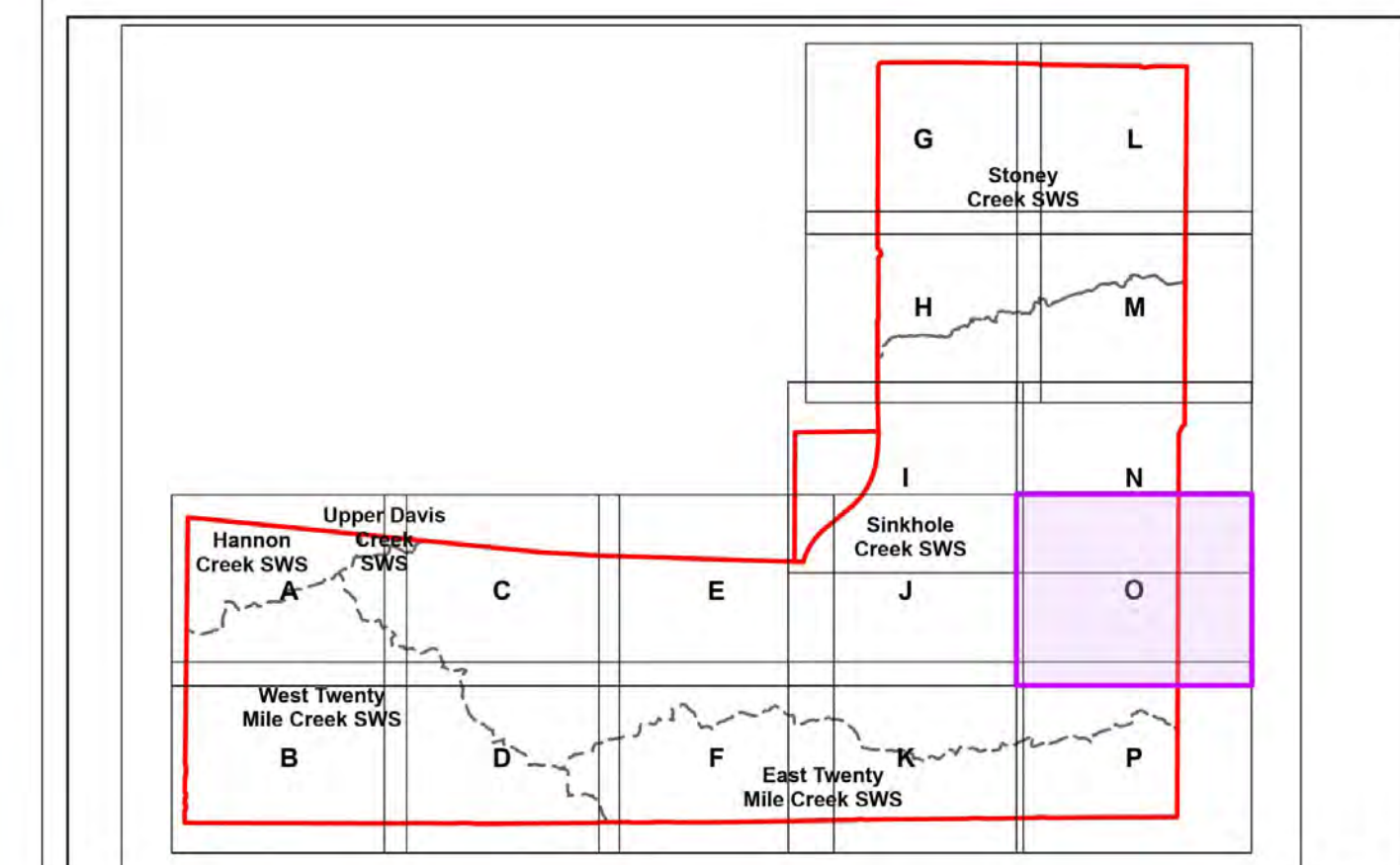
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Figure 4.1.1 M



LEGEND

Study Area	Wetland - Locally Significant / Unevaluated (Potential Compensation)
Subject Property	Wetland - Provincially Significant
Subwatershed Boundary	Vegetation Protection Zones and Buffers
Hydro Corridor	Coolwater Marginal VPZ (15m)
Unevaluated Drainage Feature within Non-Participating Land	Coolwater Critical Habitat VPZ (30 m)
Evaluated Drainage Feature within Participating Land	Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
Confirmed Watercourse Verified Through Field Surveys	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
Drainage Feature ³	Wetland - Provincially Significant VPZ (30 m)
Meander Belt	Existing MVPZs and NHF Feature Limit



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 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
 4 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.
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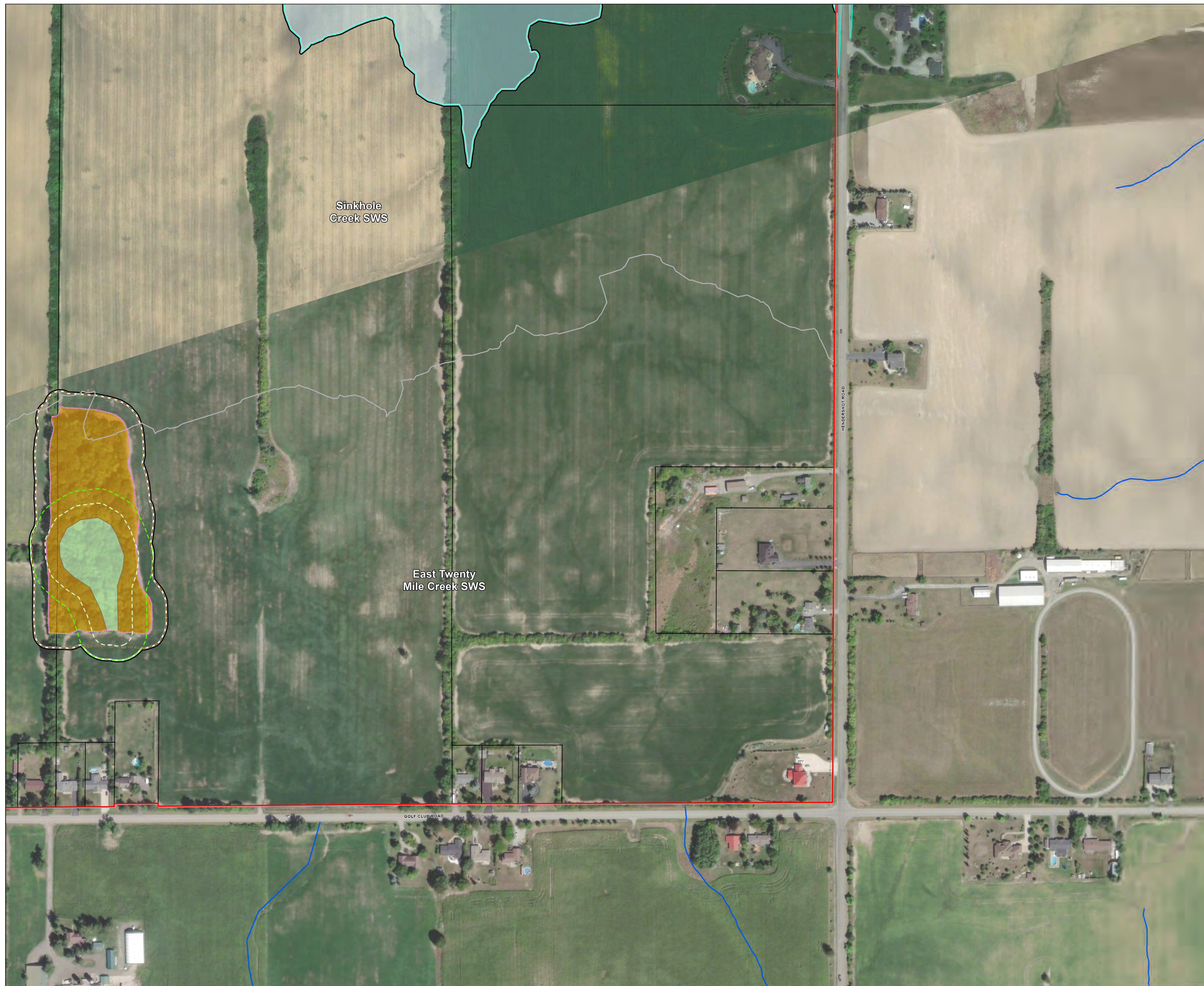
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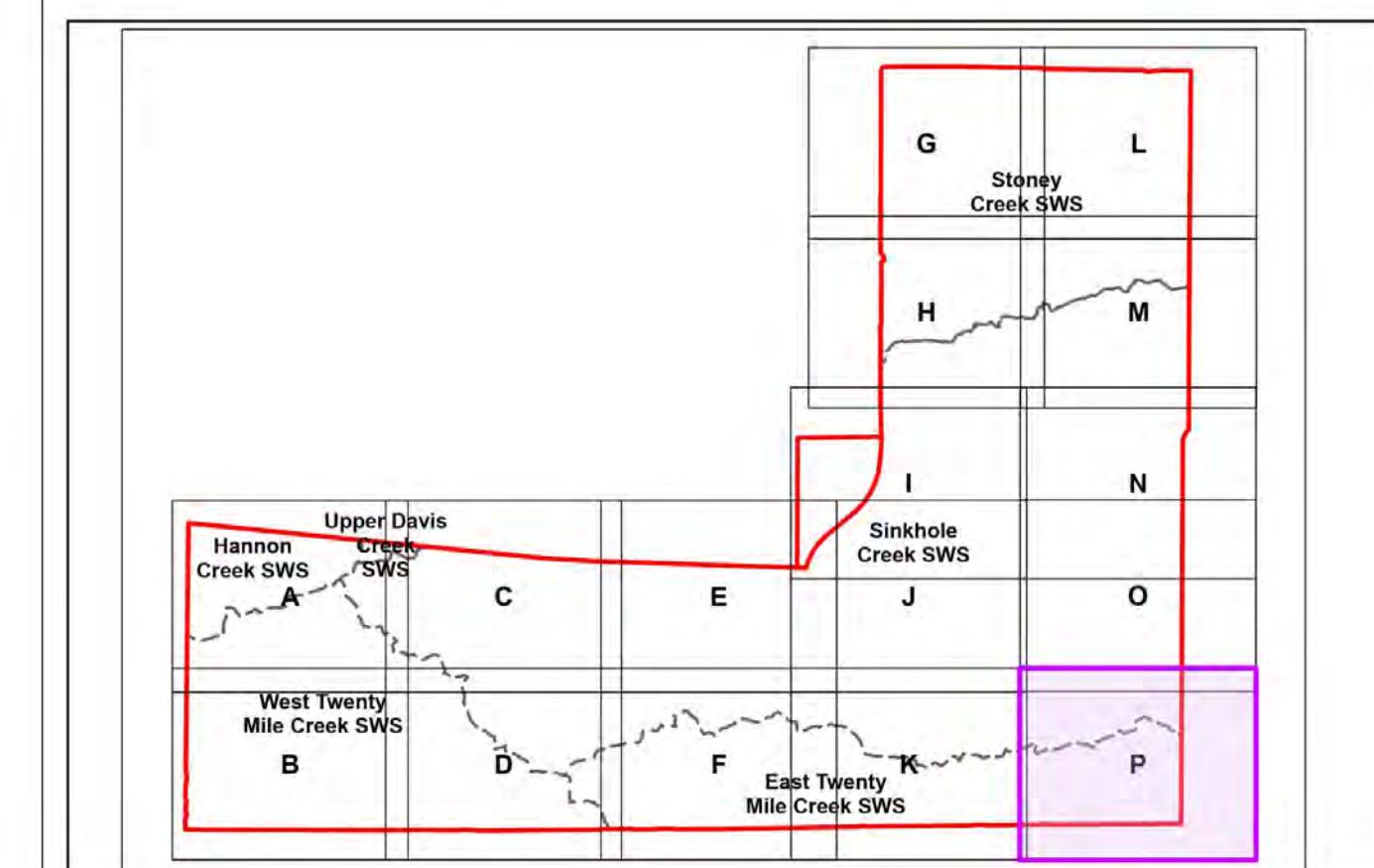
TITLE
 Existing Natural Heritage and Natural Hazards

REF. NO.
 2306301-4.1.10-1

Figure 4.1.1 O



LEGEND	
	Study Area
	Subject Property
	Subwatershed Boundary
	Evaluated Drainage Feature within Participating Land
	Confirmed Watercourse Verified Through Field Surveys
	Drainage Feature ³
	Confirmed Significant Wildlife Habitat
	Eastern Wood Pewee Habitat ²
	Natural Heritage Feature Wetland - Locally Significant / Unevaluated (Potential Compensation)
	Woodland - Significant
	Vegetation Protection Zones and Buffers Wetland - Locally Significant / Unevaluated VPZ (15 m) - as per UHOP policies
	Wetland - Locally Significant / Unevaluated VPZ (30 m) ⁵
	Woodland - Significant VPZ (15 m)
	Existing MVPZs and NHF Feature Limit



1 - Geohub Ontario
 2 - Verified through 2023-2025 field investigations
 3 - Watercourses as labelled by Geohub Ontario mapping. Drainage feature alignments have been refined in specific locations based on field observations and satellite imagery to better reflect current conditions. Drainage features within participating lands have been confirmed to be watercourses. Drainage features on non-participating lands are subject to refinement following assessments (once land access is permitted) and may result in categorization under a Headwater Drainage Feature classification following appropriate field studies.
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Figure 4.1.1 P