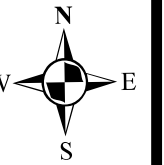
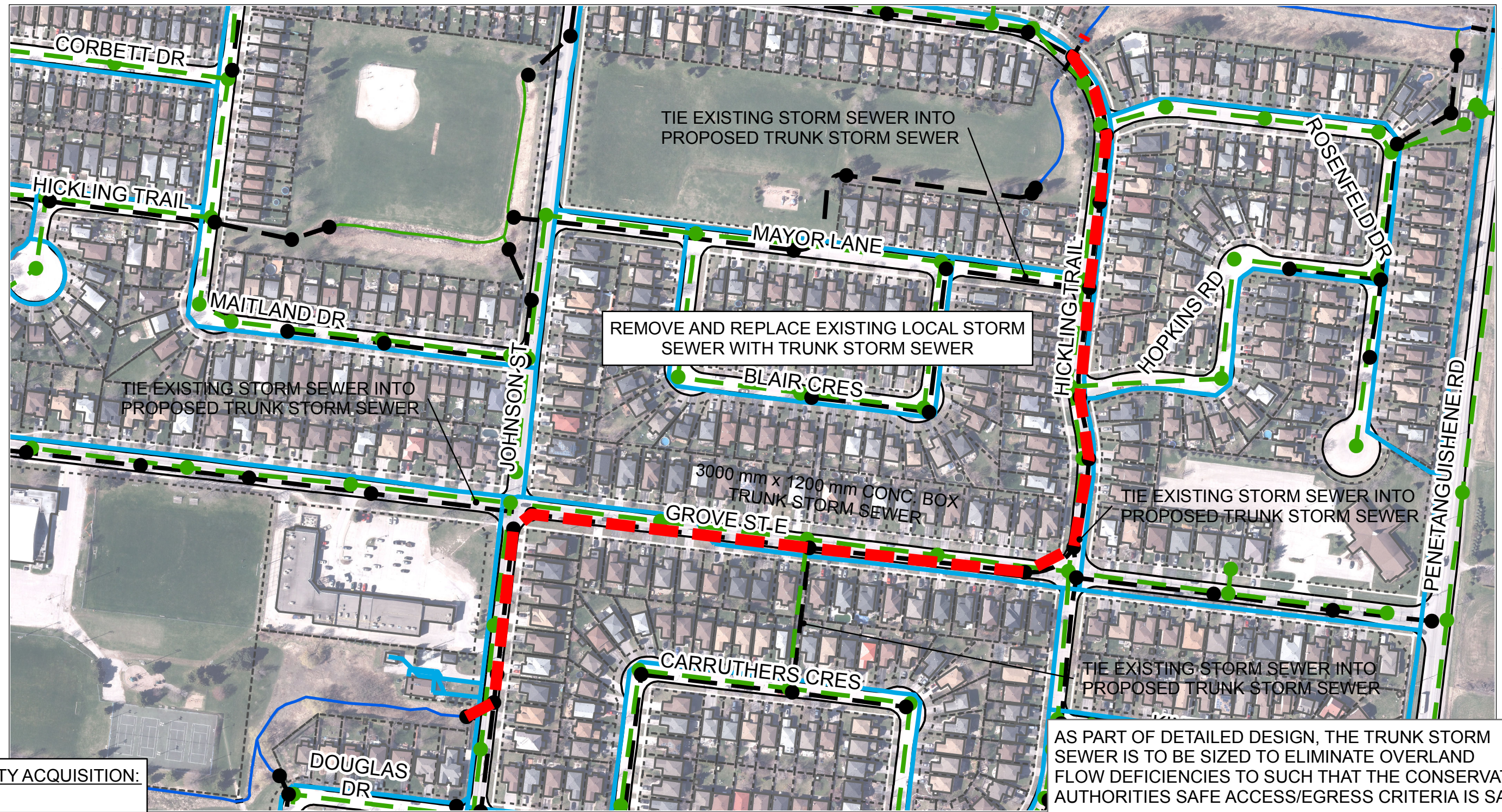


Appendix N:
Final Preferred Solutions
Conceptual Designs – Georgian
Creek Watershed



PROPERTY ACQUISITION:
NONE



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LEGEND

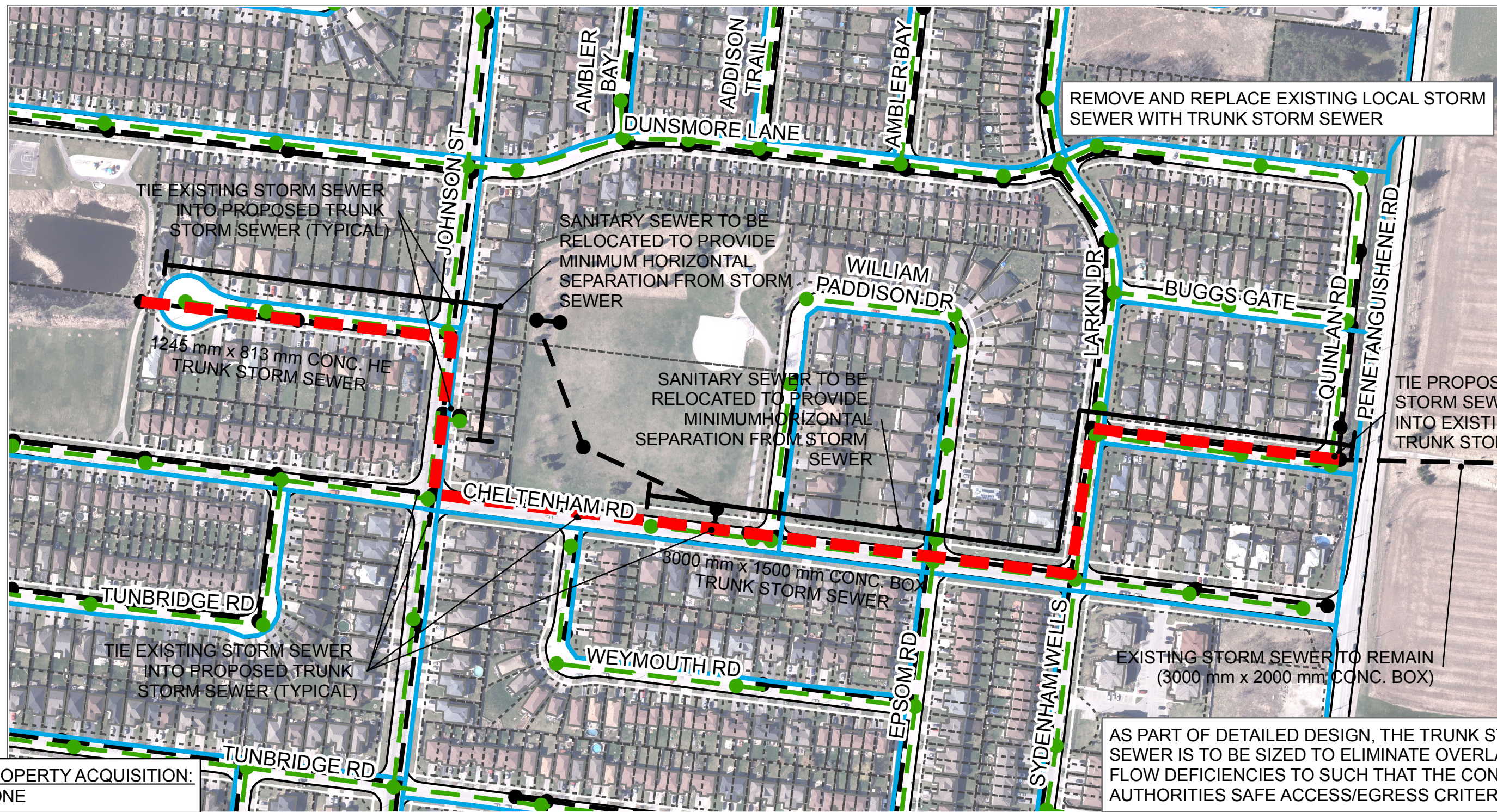
- | | | | |
|--|----------------------------|--|-------------------------------------|
| | EX. WATERCOURSE | | TRUNK STORM SEWER (PREFERRED ROUTE) |
| | EX. STORM MAINTENANCE HOLE | | EX. SANITARY MAINTENANCE HOLE |
| | EX. STORM SEWER | | EX. SANITARY SEWER |
| | EX. PROPERTY LINE | | EX. WATERMAIN |
| | PROPERTY ACQUISITION | | |

DRAINAGE MASTER PLAN **FINAL PREFERRED ALTERNATIVE SOLUTION**

PROJECT No. 135
TRUNK STORM SEWER No. 3
GEORGIAN CREEK WATERSHED

SCALE = 1:2,500

DATE: MARCH 2019



PROPERTY ACQUISITION:
NONE

AS PART OF DETAILED DESIGN, THE TRUNK STORM SEWER IS TO BE SIZED TO ELIMINATE OVERLAND FLOW DEFICIENCIES TO SUCH THAT THE CONSERVATION AUTHORITIES SAFE ACCESS/EGRESS CRITERIA IS SATISFIED.



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LEGEND

- | | | | |
|--|----------------------------|--|-------------------------------------|
| | EX. WATERCOURSE | | TRUNK STORM SEWER (PREFERRED ROUTE) |
| | EX. STORM MAINTENANCE HOLE | | EX. SANITARY MAINTENANCE HOLE |
| | EX. STORM SEWER | | EX. SANITARY SEWER |
| | EX. PROPERTY LINE | | EX. WATERMAIN |
| | PROPERTY ACQUISITION | | |

DRAINAGE MASTER PLAN **FINAL PREFERRED ALTERNATIVE SOLUTION**

PROJECT No. 137
TRUNK STORM SEWER No. 4
GEORGIAN CREEK WATERSHED

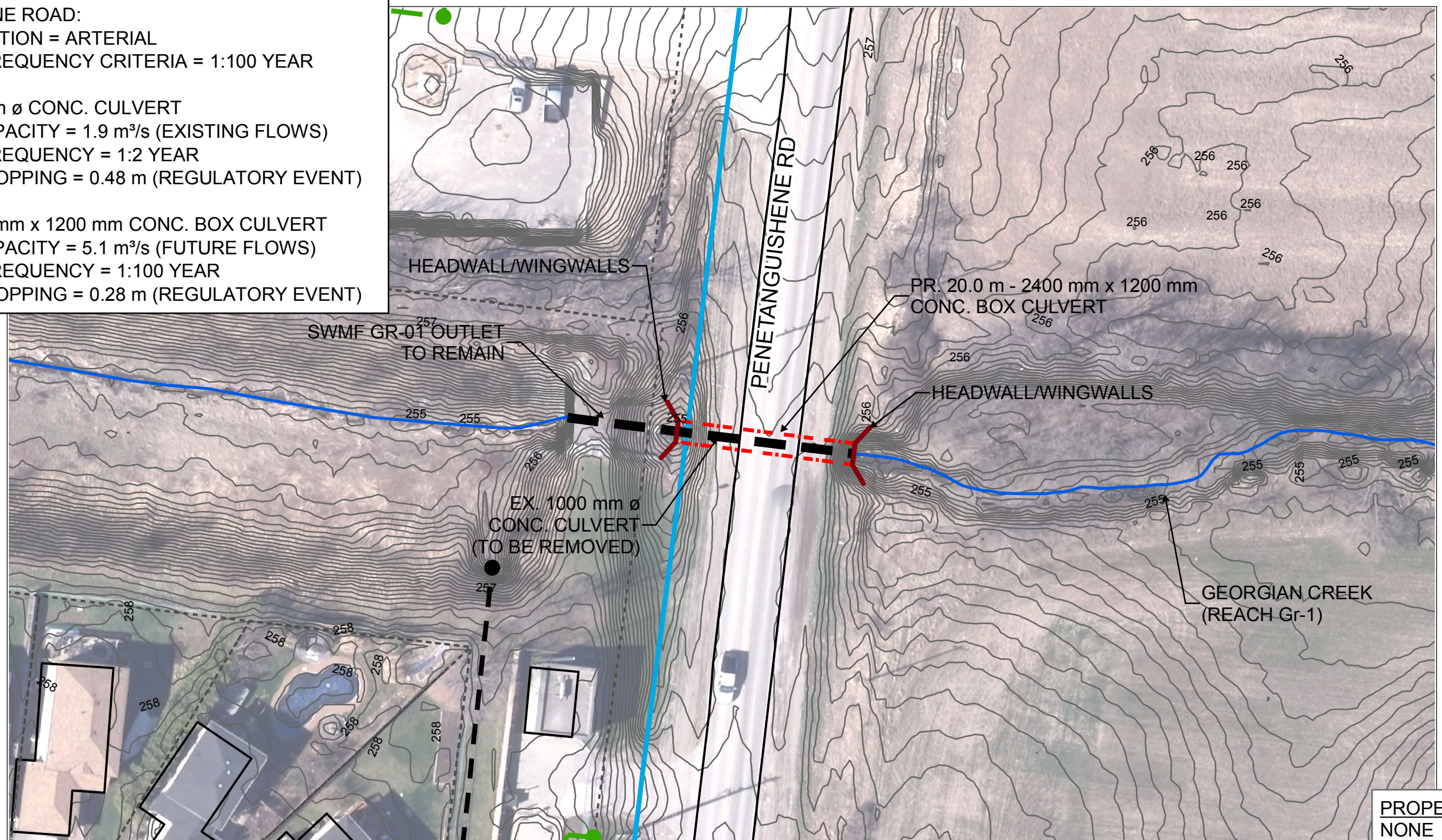
SCALE = 1:2,500

DATE: MARCH 2019

PENETANGUISHENE ROAD:
ROAD CLASSIFICATION = ARTERIAL
DESIGN FLOOD FREQUENCY CRITERIA = 1:100 YEAR

EXISTING: 1000 mm \varnothing CONC. CULVERT
CONVEYANCE CAPACITY = 1.9 m³/s (EXISTING FLOWS)
DESIGN FLOOD FREQUENCY = 1:2 YEAR
DEPTH OF OVERTOPPING = 0.48 m (REGULATORY EVENT)

PROPOSED: 2400 mm x 1200 mm CONC. BOX CULVERT
CONVEYANCE CAPACITY = 5.1 m³/s (FUTURE FLOWS)
DESIGN FLOOD FREQUENCY = 1:100 YEAR
DEPTH OF OVERTOPPING = 0.28 m (REGULATORY EVENT)



PROPERTY ACQUISITION:
NONE



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LEGEND

- | | |
|------------------------------|---------------------------------|
| --- PR. CULVERT | --- EX. SANITARY SEWER |
| --- PR. STORM SEWER | ● EX. SANITARY MAINTENANCE HOLE |
| ● PR STORM MAINTENANCE HOLE | --- EX. WATERMAIN |
| --- EX. STORM SEWER | --- EX. CULVERT |
| ● EX. STORM MAINTENANCE HOLE | --- EX. PROPERTY LINE |
| --- WATERCOURSE | --- PROPERTY ACQUISITION |

DRAINAGE MASTER PLAN **FINAL PREFERRED ALTERNATIVE SOLUTION**

PROJECT No. 139
CULVERT IMPROVEMENT No. 82
(PENETANGUISHENE RD)
GEORGIAN CREEK WATERSHED

SCALE = 1:500

DATE: MARCH 2019