

**Appendix N:
Final Preferred Solutions
Conceptual Designs – Hewitts
Creek Watershed**

MAPLEVIEW DRIVE E.:
ROAD CLASSIFICATION = ARTERIAL
DESIGN FLOOD FREQUENCY CRITERIA = 1:100 YEAR

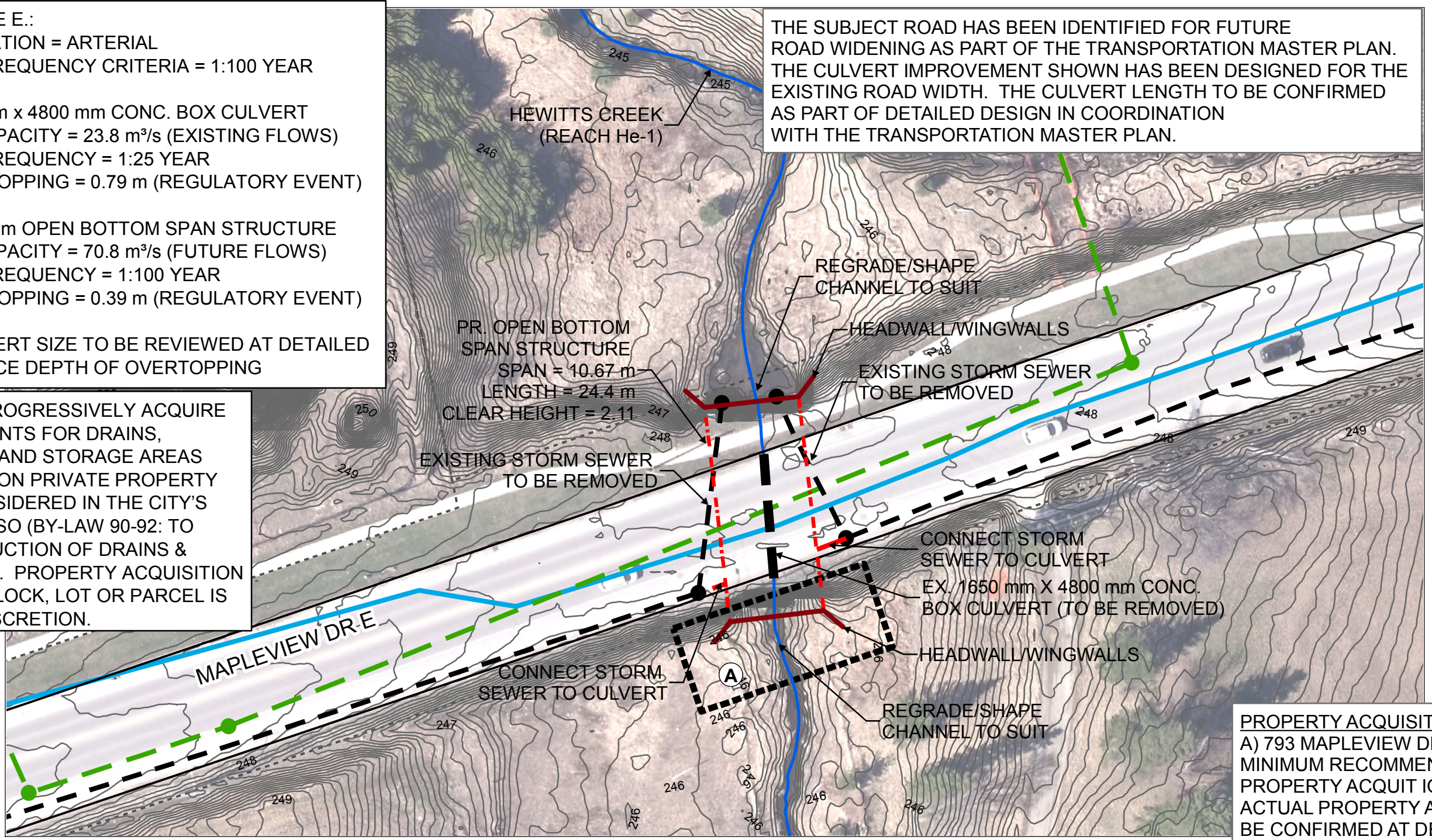
EXISTING: 1650 mm x 4800 mm CONC. BOX CULVERT
CONVEYANCE CAPACITY = 23.8 m³/s (EXISTING FLOWS)
DESIGN FLOOD FREQUENCY = 1:25 YEAR
DEPTH OF OVERTOPPING = 0.79 m (REGULATORY EVENT)

PROPOSED: 10.67 m OPEN BOTTOM SPAN STRUCTURE
CONVEYANCE CAPACITY = 70.8 m³/s (FUTURE FLOWS)
DESIGN FLOOD FREQUENCY = 1:100 YEAR
DEPTH OF OVERTOPPING = 0.39 m (REGULATORY EVENT)

PROPOSED CULVERT SIZE TO BE REVIEWED AT DETAILED
DESIGN TO REDUCE DEPTH OF OVERTOPPING

THE CITY IS TO PROGRESSIVELY ACQUIRE
LAND OR EASEMENTS FOR DRAINS,
WATERCOURSES AND STORAGE AREAS
CROSSING OR UPON PRIVATE PROPERTY
WHERE IT IS CONSIDERED IN THE CITY'S
INTEREST TO DO SO (BY-LAW 90-92: TO
PROHIBIT OBSTRUCTION OF DRAINS &
WATERCOURSES). PROPERTY ACQUISITION
VIA EASEMENT, BLOCK, LOT OR PARCEL IS
TO THE CITY'S DISCRETION.

THE SUBJECT ROAD HAS BEEN IDENTIFIED FOR FUTURE
ROAD WIDENING AS PART OF THE TRANSPORTATION MASTER PLAN.
THE CULVERT IMPROVEMENT SHOWN HAS BEEN DESIGNED FOR THE
EXISTING ROAD WIDTH. THE CULVERT LENGTH TO BE CONFIRMED
AS PART OF DETAILED DESIGN IN COORDINATION
WITH THE TRANSPORTATION MASTER PLAN.



PROPERTY ACQUISITION:
A) 793 MAPLEVIEW DR. E. (PORTION OF)
MINIMUM RECOMMENDED
PROPERTY ACQUISITION SHOWN
ACTUAL PROPERTY ACQUISITION TO
BE CONFIRMED AT DETAILED DESIGN



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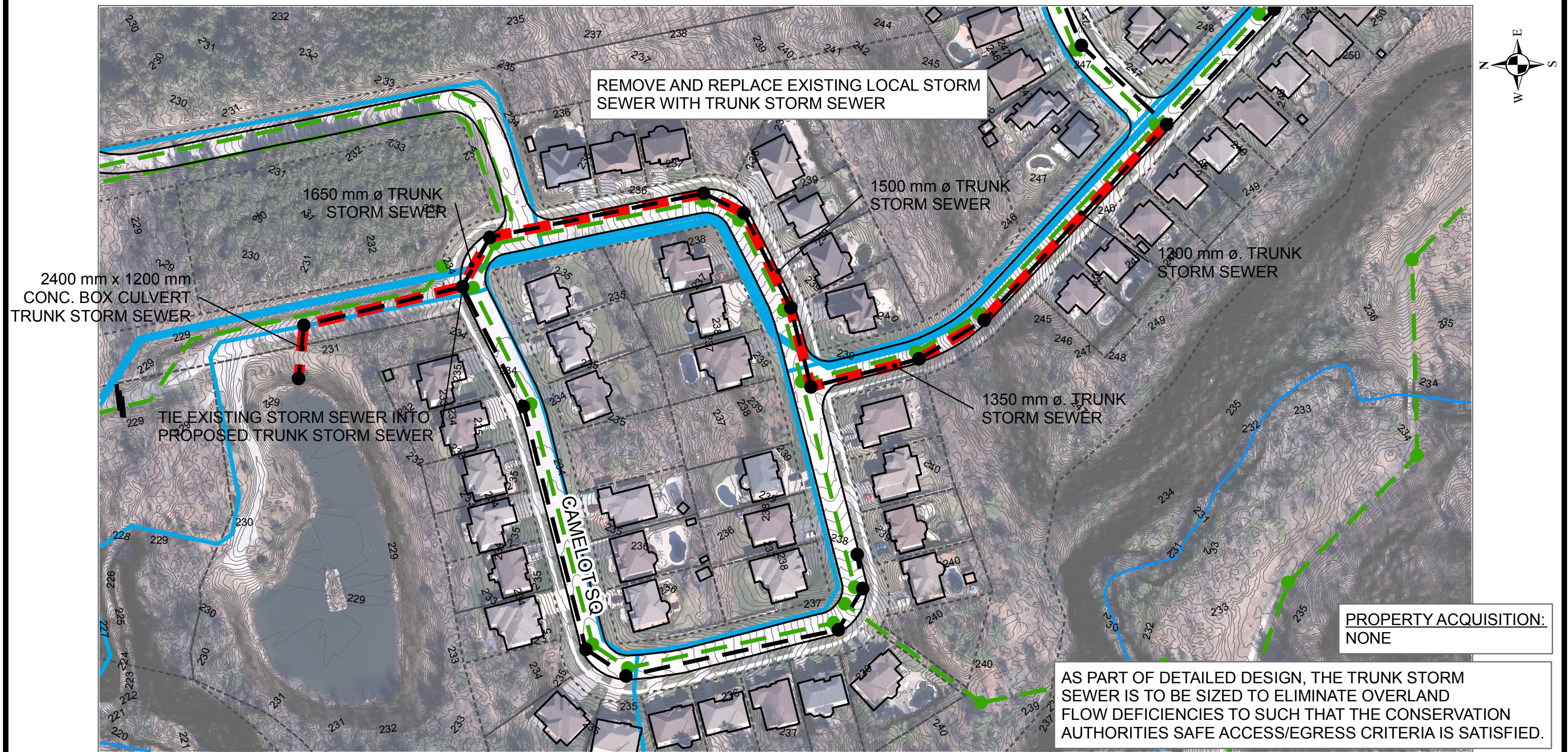
LEGEND

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

**DRAINAGE MASTER PLAN
FINAL PREFERRED ALTERNATIVE SOLUTION**

PROJECT No. 125
CULVERT IMPROVEMENT No. 83
(MAPLEVIEW DRIVE E.)
HEWITTS CREEK WATERSHED
SCALE = 1:500

DATE: MARCH 2019



LEGEND

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

DRAINAGE MASTER PLAN **FINAL PREFERRED ALTERNATIVE SOLUTION**

PROJECT No. 130
TRUNK STORM SEWER No. 6
HEWITTS CREEK WATERSHED

SCALE = 1:1,500

DATE: MARCH 2019