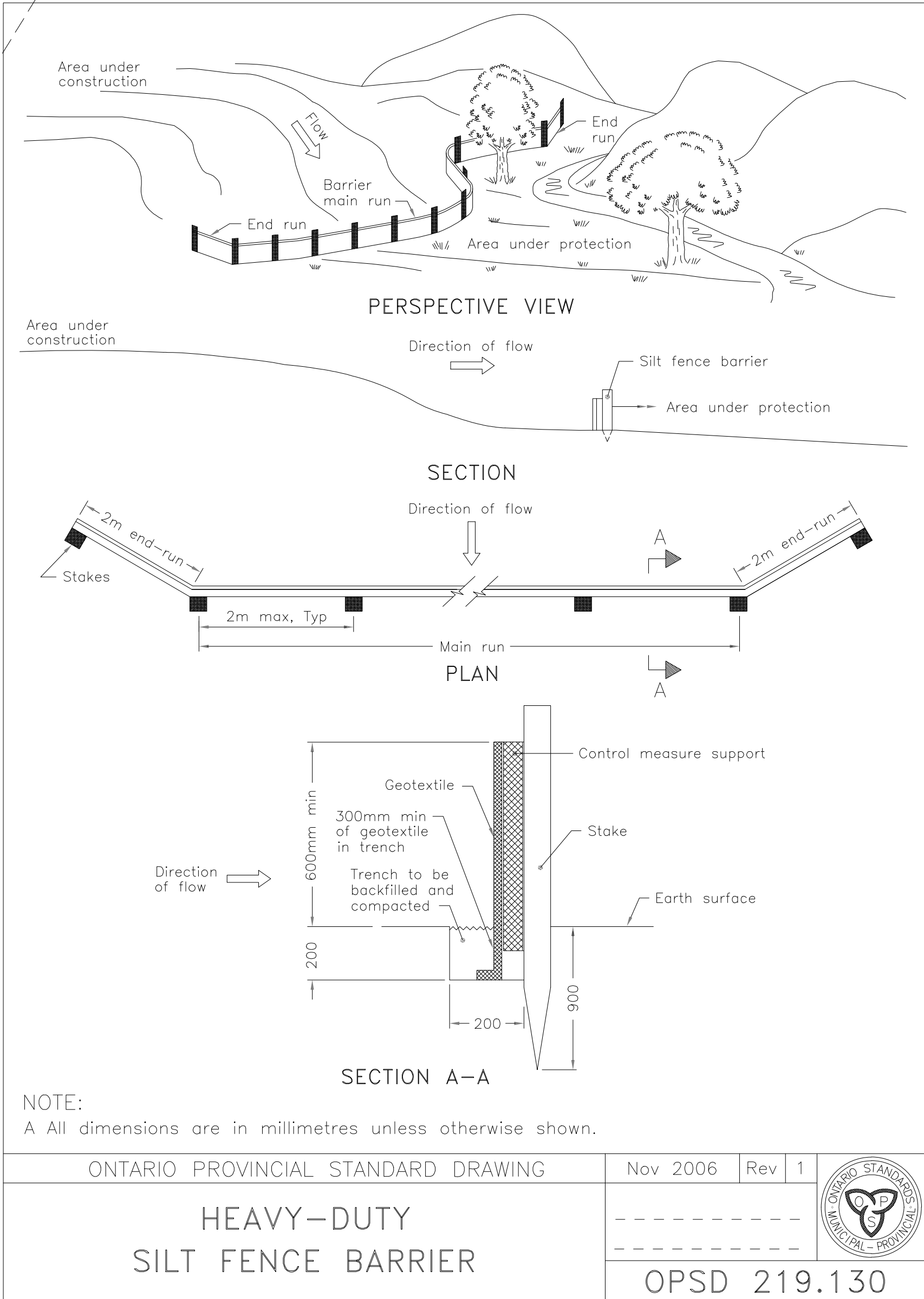


BASED ON THE SUPPLEMENTARY SLOPE STABILITY ASSESSMENT PREPARED BY CAMBIUM INC., DATED JUNE 30, 2026, FOR 115 RANGERS ROAD, THE SITE CONSISTS MAINLY OF SHALLOW TOPSOIL OVER GRANITE BEDROCK, WITH NO OBSERVABLE SEEPAGE NOTED DURING THE INSPECTION. TWO FRENCH DRAINS FILLED WITH CLEAR STONE ARE PROPOSED AT THIS STAGE, EACH APPROXIMATELY 1.5 m DEEP, TO COLLECT AND CONVEY LOCAL DRAINAGE AWAY FROM THE HOUSE AREA.



GRADING NOTES

- ALL GRADING WORKS SHALL BE COMPLETED TO MINIMIZE DISTURBANCE TO EXISTING VEGETATION, NATURAL FEATURES, SHORELINE AREAS AND ADJACENT PROPERTIES.
- GRADING DISTURBANCE SHALL BE LIMITED TO THE APPROVED DWELLING, GARAGE, SEPTIC SYSTEM, DRIVEWAY/ACCESS, GRAVEL/WOOD PATH, STEPS AND AREAS REQUIRED FOR CONSTRUCTION.
- EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED TO THE EXTENT PRACTICAL. SURFACE RUNOFF SHALL NOT BE DIRECTED TO ADJACENT PROPERTIES.
- SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE PROPOSED DWELLING, GARAGE, SEPTIC SYSTEM AND OTHER STRUCTURES.
- OVERLAND FLOW SHALL BE CONTROLLED AND DIRECTED TOWARD THE EXISTING DOWNSLOPE DRAINAGE PATTERN WITHOUT CAUSING EROSION OR SEDIMENT MIGRATION TOWARD BAPTISTE LAKE.
- SIDE SLOPES SHALL BE GENTLY GRADED TO MATCH EXISTING GRADES AND EMBANKMENT CONDITIONS. DISTURBED EMBANKMENT AREAS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF GRADING.
- THE STEEL/GRAVEL/WOOD PATH AND STEPS SHALL BE CONSTRUCTED TO FOLLOW EXISTING GRADES WHERE PRACTICAL. FINAL STEP LAYOUT SHALL BE CONFIRMED ON SITE TO SUIT ACTUAL GRADE CHANGES.
- NO GRADING, FILL PLACEMENT, STOCKPILING, EQUIPMENT STORAGE OR MATERIAL STORAGE SHALL OCCUR WITHIN THE SHORELINE AREA EXCEPT AS SHOWN ON THE APPROVED PLAN OR AS APPROVED BY THE MUNICIPALITY AND APPLICABLE AGENCIES.
- NO IN-WATER WORKS OR SHORELINE ALTERATIONS ARE PROPOSED OR PERMITTED UNDER THIS GRADING PLAN UNLESS SEPARATELY APPROVED BY THE APPLICABLE AUTHORITIES.

EROSION AND SEDIMENT CONTROL NOTES

- HEAVY-DUTY SILT FENCE SHALL BE INSTALLED ALONG THE DOWNGRADIENT LIMITS OF DISTURBANCE AND ALONG THE PROPERTY LINE WHERE SHOWN ON THE PLAN TO PREVENT SEDIMENT MIGRATION TOWARD BAPTISTE LAKE.
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY TREE REMOVAL, DEMOLITION, EXCAVATION, GRADING, SEPTIC WORK OR BUILDING CONSTRUCTION, AND SHALL BE MAINTAINED FOR THE FULL DURATION OF CONSTRUCTION.
- SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH OPSD 219.130 OR APPROVED MUNICIPAL STANDARD. DAMAGED, CLOGGED OR DISPLACED SILT FENCE SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- DUE TO THE SLOPING TOPOGRAPHY TOWARD BAPTISTE LAKE, AN ADDITIONAL LAYER OF SILT FENCE SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SEDIMENT MIGRATION.
- EXISTING VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE, PARTICULARLY BETWEEN THE DEVELOPMENT AREA AND BAPTISTE LAKE, TO MAINTAIN NATURAL SLOPE STABILIZATION AND FILTRATION.
- STOCKPILES SHALL BE LOCATED AWAY FROM BAPTISTE LAKE AND SHALL BE PROTECTED WITH SILT FENCE OR OTHER APPROVED SEDIMENT CONTROL MEASURES.
- EXPOSED SOILS AND DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL WITH SEED, SOD, MULCH, EROSION CONTROL BLANKET, RIP-RAP OR APPROVED EQUIVALENT.
- NO SEDIMENT, FUEL, LUBRICANTS, DEBRIS, CONCRETE WASHOUT, CONSTRUCTION WASTE OR DELETERIOUS MATERIAL SHALL BE PERMITTED TO ENTER BAPTISTE LAKE OR ANY NATURAL DRAINAGE FEATURE.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED AND RE-VEGETATED.

EXISTING	LEGENDS	PROPOSED
150 WM	WATERMAIN	150 WM
	HYDRANT	
	VALVE	
250 SAN	SANITARY SEWER	250 SAN
250 STM	STORM SEWER	250 STM
	MANHOLE	
	CATCH BASIN	
	CURB INLET	
	JUNCTIONS	
	PLUG	
	CULVERT	
	HYDRO	
	DOWNSPOUT	
	SILT FENCE	
	TEMPORARY CATCHBASIN SEDIMENT TRAP	
50 GAS	GAS	50 GAS
	SURVEY BAR	
	CONCRETE	
	ASPHALT	
	SIDEWALK	
× 179.20	ELEVATION	× 179.20
	ELEVATION-EXISTING TO MATCH	× 179.20
	SLOPE	2.0%
	SLOPE-EXISTING TO MATCH	2.0%

MUNICIPALITY OF
HASTINGS HIGHLANDS

SITE GRADING PLAN ESC PLAN

115 RANGERS ROAD
HIGHLAND GROVE, ON

DATA WAS TAKEN FROM SURVEY PLAN
PROVIDED BY
P.A. MILLER SURVEYING LTD.
ONTARIO LAND SURVEYOR

DESIGNED NXO	CHECKED NXO	SHEET 1 OF 1
DRAWN STU	APPROVED	CAD FILE DRAWING NAME
SCALE 1:200	RELEASED FOR CONSTRUCTION	2026.034_115 RANGERS ROAD, HIGHLAND GROVE
DATE DRAWN JUN 19, 2026	DATE OF SURVEY MAY 21, 2026	CITY DRAWING NUMBER
4	ISSUED FOR PERMIT	13/07/26 NXO
3	RE-ISSUED FOR COORDINATION	08/07/26 NXO
2	RE-ISSUED FOR COORDINATION	02/07/26 NXO
1	ISSUED FOR COORDINATION	26/06/26 NXO
NO.	REVISIONS	DATE BY

NOTES:

All distances are in metres
and may be converted to
feet by multiplying by
3.28084.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEER'S SEAL



CONSULTANT DRAWING NO.
GP-01

**RELIANCE
ENGINEERING**

6850 Millcreek Dr
Mississauga ON L5N 2H4

Client:

JUSTIN & NICOLA FLOWERDAY

STANDARD NOTES

ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

ALL WORK SHALL COMPLY WITH APPLICABLE MUNICIPAL DESIGN GUIDELINES, DRAINAGE BY-LAWS, AND THE ONTARIO BUILDING CODE.

NO ALTERATION TO GRADES OR DRAINAGE PATTERNS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER AND THE MUNICIPALITY.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.