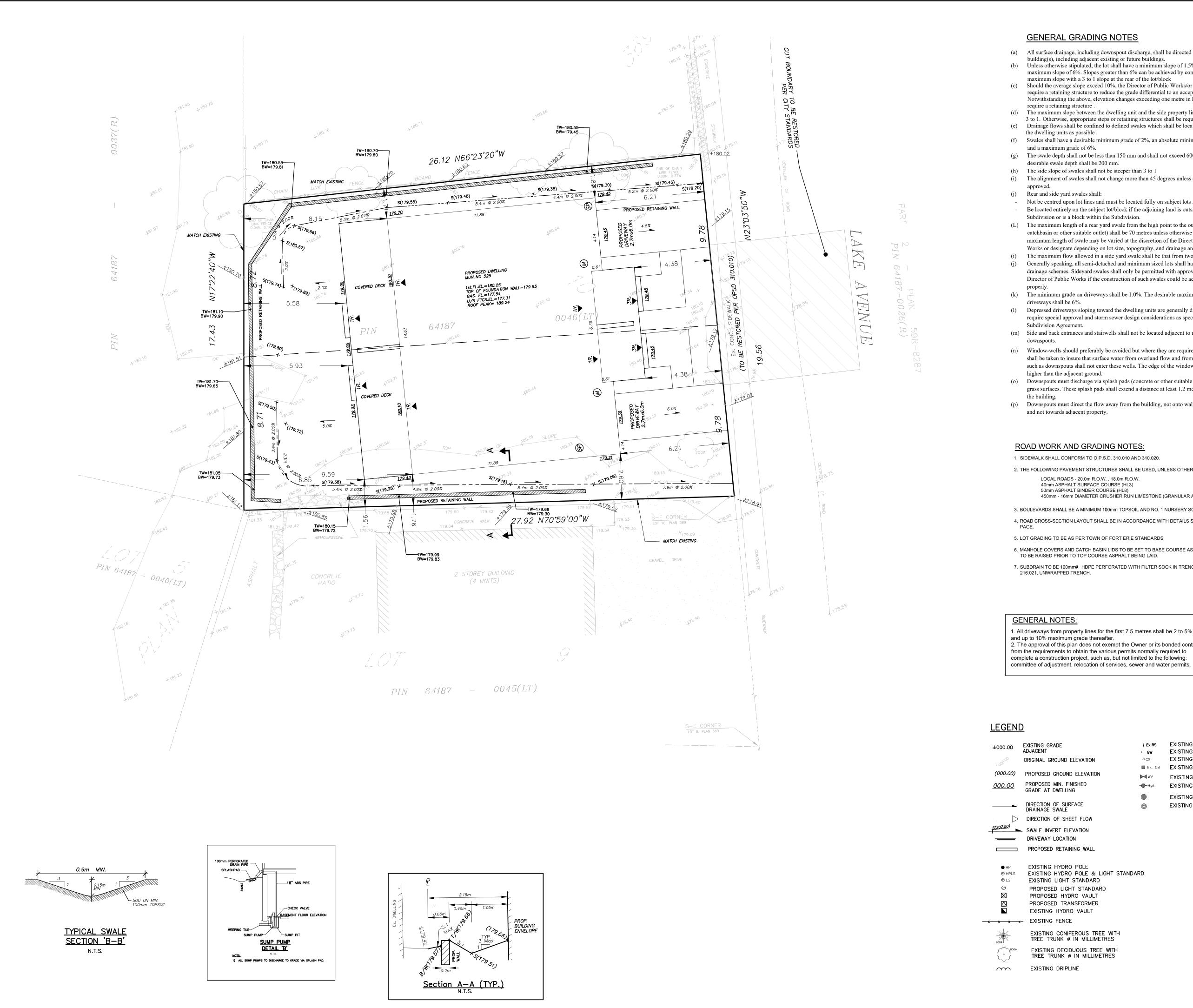
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GENERAL GRADING NOTES

(a) All surface drainage, including downspout discharge, shall be directed away from the building(s), including adjacent existing or future buildings.

(b) Unless otherwise stipulated, the lot shall have a minimum slope of 1.5% and a maximum slope of 6%. Slopes greater than 6% can be achieved by combining a 6% maximum slope with a 3 to 1 slope at the rear of the lot/block

(c) Should the average slope exceed 10%, the Director of Public Works/or designate may require a retaining structure to reduce the grade differential to an acceptable amount. Notwithstanding the above, elevation changes exceeding one metre in height shall require a retaining structure .

(d) The maximum slope between the dwelling unit and the side property line shall be 3 to 1. Otherwise, appropriate steps or retaining structures shall be required (e) Drainage flows shall be confined to defined swales which shall be located as far from the dwelling units as possible .

(f) Swales shall have a desirable minimum grade of 2%, an absolute minimum of 0.5% and a maximum grade of 6%.

(g) The swale depth shall not be less than 150 mm and shall not exceed 600 mm. A desirable swale depth shall be 200 mm.

(i) The alignment of swales shall not change more than 45 degrees unless otherwise

- Not be centred upon lot lines and must be located fully on subject lots . - Be located entirely on the subject lot/block if the adjoining land is outside the

Subdivision or is a block within the Subdivision. (L) The maximum length of a rear yard swale from the high point to the outlet (rear yard catchbasin or other suitable outlet) shall be 70 metres unless otherwise approved. This maximum length of swale may be varied at the discretion of the Director of Public

Works or designate depending on lot size, topography, and drainage area . The maximum flow allowed in a side yard swale shall be that from two backyards. (j) Generally speaking, all semi-detached and minimum sized lots shall have rear lot drainage schemes. Sideyard swales shall only be permitted with approval of the Director of Public Works if the construction of such swales could be accommodated

(k) The minimum grade on driveways shall be 1.0%. The desirable maximum grade on

(l) Depressed driveways sloping toward the dwelling units are generally discouraged and require special approval and storm sewer design considerations as specified in the

(m) Side and back entrances and stairwells shall not be located adjacent to main swales or

(n) Window-wells should preferably be avoided but where they are required, special care shall be taken to insure that surface water from overland flow and from other sources such as downspouts shall not enter these wells. The edge of the window-well shall be higher than the adjacent ground.

(o) Downspouts must discharge via splash pads (concrete or other suitable material) to grass surfaces. These splash pads shall extend a distance at least 1.2 metres away from

(p) Downspouts must direct the flow away from the building, not onto walks or driveways and not towards adjacent property.

ROAD WORK AND GRADING NOTES:

1. SIDEWALK SHALL CONFORM TO O.P.S.D. 310.010 AND 310.020.

2. THE FOLLOWING PAVEMENT STRUCTURES SHALL BE USED, UNLESS OTHERWISE SPECIFIED: LOCAL ROADS - 20.0m R.O.W. , 18.0m R.O.W. 40mm ASPHALT SURFACE COURSE (HL3)

50mm ASPHALT BINDER COURSE (HL8) 450mm - 16mm DIAMETER CRUSHER RUN LIMESTONE (GRANULAR A)

3. BOULEVARDS SHALL BE A MINIMUM 100mm TOPSOIL AND NO. 1 NURSERY SOD.

4. ROAD CROSS-SECTION LAYOUT SHALL BE IN ACCORDANCE WITH DETAILS SHOWN ON THIS

5. LOT GRADING TO BE AS PER TOWN OF FORT ERIE STANDARDS

6. MANHOLE COVERS AND CATCH BASIN LIDS TO BE SET TO BASE COURSE ASPHALT GRADE AND

7. SUBDRAIN TO BE 100mm // HDPE PERFORATED WITH FILTER SOCK IN TRENCH PER OPSD

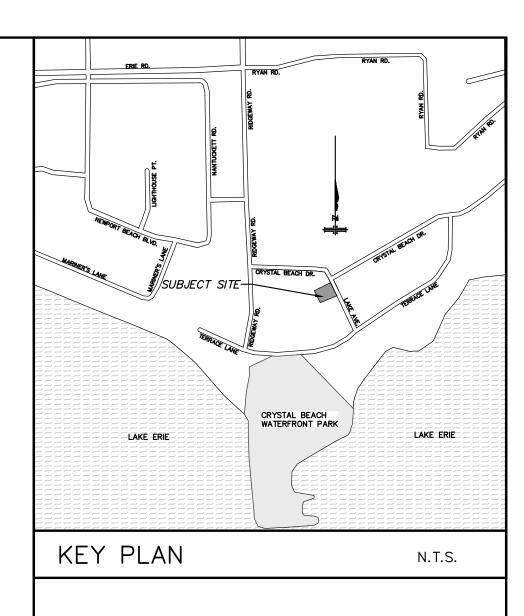
1. All driveways from property lines for the first 7.5 metres shall be 2 to 5% grade, and up to 10% maximum grade thereafter. 2. The approval of this plan does not exempt the Owner or its bonded contractor from the requirements to obtain the various permits normally required to complete a construction project, such as, but not limited to the following:

ADE	Ex.RS	EXISTING	ROAD SIGN
	\leftarrow GW	EXISTING	GUYWIRE
ROUND ELEVATION	° CS	EXISTING	CURB STOP
	🔲 Ex. CB	EXISTING	CATCH BASIN
GROUND ELEVATION	WV	EXISTING	WATER VALVE
MIN. FINISHED DWELLING	-⊕ −Hyd.	EXISTING	HYDRANT
		EXISTING	SANITARY MANHOLE
OF SURFACE SWALE	0	EXISTING	STORM MANHOLE
OF SHEET FLOW			

EXISTING HYDRO POLE & LIGHT STANDARD EXISTING LIGHT STANDARD PROPOSED LIGHT STANDARD PROPOSED HYDRO VAULT PROPOSED TRANSFORMER EXISTING HYDRO VAULT

TREE TRUNK Ø IN MILLIMETRES

TREE TRUNK Ø IN MILLIMETRES



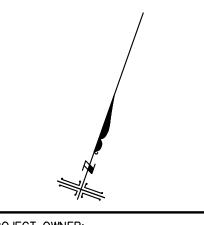
BENCH MARK

ELEVATIONS HEREON ARE GEODETIC AND WERE DERIVED FROM THE TOPNET RKT NETWORK, NAD83 CSRS, VERSION 3, EPOC 2010.

1.	1st Submission	A.N	NOV 07, 2022
No.	Revision	Ву	Date

GENERAL NOTES

- TENDERERS SHALL SATISFY THEMSELVES AS TO THE NATURE OF THE GROUND AND BID ACCORDINGLY.
- ALL ROCK LINE INDICATIONS SHOWN ON THE PLAN MUST BE VERIFIED BY THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY LOCATIONS AND INVERTS OF ALL EXISTING SANITARY AND STORM SEWERS AND WATERMAINS PRIVATE SEWER DRAINS AND WATER SERVICES, GASMAINS, CABLE TV, HYDRO AND TELEPHONE DUCTS, ETC., AT START OF CONSTRUCTION.





PROJECT OWNER:

ELITE BEAUTY MANAGEMENT

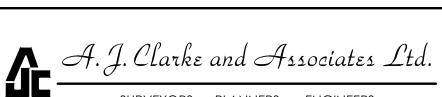
NOT ISSUED FOR CONSTRUCTION

TOWN OF FORT ERIE (CRYSTAL BEACH)

PROJECT NAME:

MUNICIPALITY:





SURVEYORS • PLANNERS • ENGINEERS 25 MAIN STREET WEST, SUITE 300 HAMILTON, ONTARIO L8P 1H1 Tel: 905 528-8761 Fax: 905 528-2289 email: ajc@ajclarke.com

TITLE:

GRADING PLAN

SCALE: 1:100	DATE: OCT 2022
DESIGN: A.N.	DRAWN: S.Z.
dwg: 228004	sht: 2