









Well Construction

- **Future wells drilled on the site should be constructed with a** minimum 12.0 metres length of casing through the overburden and set at least 1 metre into the sound bedrock, whichever is areater.
- 5The steel casing placed in the boreholes should be pressure grouted or displacement grouted into place. The material used to seal the annular space could consist of either a cement grout or a commercially available bentonite grout product. Cement grout mixtures should be allowed to set for a minimum two day period for normal cement or twelve hours for a high early strength cement prior to advancing the well further into bedrock. If a bentonite grout product is used, drilling need only be suspended for a few hours depending on the product used. Bentonite grout has the additional advantage of remaining flexible when set and therefore will not crack or shrink thereby ensuring as well as possible that surface water or shallow groundwater will not migrate along the annular space and into the well bore.
- $\Im \textsc{Once}$ the casing has been sealed, the well should be advanced uncased in the bedrock until a water supply of sufficient quantity and quality is encountered. Wells should encounter sufficient water and be completed to depths of less than about 55 metres. 5 The completed well should then be developed to maximize the vield.
- 5 The well casings should be completed at least 400 millimetres above the highest point on the finished ground surface within three metres radially from the well after surface drainage is directed away from the well.
- \mathfrak{I} The casing should be fitted with a pitless adapter at a minimum depth of 1.8 metres below the finished ground surface to facilitate below ground plumbing and electrical connections.

Well Decommissioning

- \Im The existing test wells are poorly located with respect to the proposed development. These well are indicated to be decommissioned or abandoned in accordance with Ontario Regulation 903.
- \mathfrak{I} This work should be carried out before any development or infilling of the backwater flood plain.

 \Im Records of abandonment at to be provided to the Ministry of the Environment.

Septic Systems

- ∋Septic systems must meet the requirements of Part 8 of the Ontario Building Code and a Permit must be obtained prior to installation.
- ∋Septic envelopes should be located as much as possible on topographically lower areas with the wells in topographically higher areas.
- \Im The separation distances between the properly constructed wells and the distribution pipe within the septic system should be 15 m plus twice the grade raise.
- ∋Septic systems should be located 35 to 40 metres from down gradient wells on adjacent properties.
- ∂Flipping or moving of wells and septic systems is not permitted in this development.

NOTE: SUMP PUMPS TO BE UTILIZED FOR FOUNDATION DRAINAGE AS PER TECHNICAL BULLETIN ISTB-2019-02, DRAWING P01 & KOLLAARD GEOTECHNICAL REPORT 200977. - REFER TO DETAILS (2) FOR TYPICAL FOUNDATION DRAIN & SUMP DETAIL

SUMP PIT AND SUMP LINE HAVE BEEN ADDED TO EACH BUILDING FOOTPRINT FOR ILLUSTRATION AND TO SPECIFY FOUNDATION DRAIN BY SUMP PUMP IS REQUIRED. THE ACTUAL LOCATION OF SUMP PIT AND DISCHARGE LOCATION WITHIN THE BUILDING FOOTPRINT WILL BE A FUNCTION OF THE INDIVIDUAL HOUSE DESIGN.



STAMP	LIENT NAME		PROJECT No.	
PROFESSIONAL		ZBIGNIEW HAUDEROWICZ	200977	
2025.MAR.27 S. E. deWit	ROJECT NAME PROI	POSED RESIDENTIAL SUBDIVISION	DATE 2024/12/10	α
100079612	ROJECT LOCATION 2050	DUNROBIN ROAD OTTAWA, ONTARIO	SCALE 1: 750	- 22-001
OLINCE OF ONTAR	prawing S	ITE SERVICING PLAN	DRAWING No. SVC	-00-00-







y —— 100y —— 100y —— 100y —— 100	0y 100y 100y 100y 100y	100y 100y 100y	100y 100y 100y	— 100y —— 100y —— 100y —— 100y —— 100y —— 10	0y 100y 100y 1	100y 100y 100y 100y 100	by 100y
GRADE - TOP OF SLOPE		ELEV = 74.73	RIP RAP PROTECTION	SUBDRAIN OUTLET PROTECTION 200mm Ø ~ AS PER OPSD 200 /c/w RODENT GRATE	6.050		
			ELEV = 74.17	CREEK BANK SLO	OPE BEYOND SWALE		2 YR F
02				INV = 73.71			
RATED SINGLE WALL HDPE SU	UBDRAIN 20mm CLE	EAR STONE		2y	2y 2y 2y 2y Zy E	2y	2yBC

			CONSULTANTS				DES
					Kollaard	Associates	DR4
					Engineero	1000010100	
					Cultures		CHE
HESPONSE TO 4TH COMMENTS	2024.DEC.10	s SD					
PARTIAL RESPONSE TO 4TH COMMENTS	2024.SEP.10	SD		BOX 189 210 PRESCOTT	STREET		
RESPONSE TO SECOND REVIEW COMMENTS	2024.APR.19	SD SD		KEMPTVILLE, O KOG 1JO	NTARIO	(613) $860-0923$	APH
REVISION	DATE	BY		FACSIMILE (613	3) 258–0475		



GRANTED.

BOX 189 210 PRESCOTT STREET KEMPTVILLE, ONTARIO KOG 1JO FACSIMILE (613) 258-0475 REVISION DATE BY

RESPONSE TO 5TH COMMENTS	2025.MAR.27	SD
RESPONSE TO 4TH COMMENTS	2024.DEC.10	SD
ARTIAL RESPONSE TO 4TH COMMENTS	2024.SEP.10	SD
PONSE TO SECOND REVIEW COMMENTS	2024.APR.19	SD
REVISION	DATE	BY

ESPONSE TO 5TH COMMENTS	2025.MAR.27	SD
REVISION	DATE	BY