



Midland Golf and Country
Club
Proposed Clubhouse

**FUNCTIONAL SERVICING REPORT AND
STORMWATER MANAGEMENT
BRIEF**

**REVIEWED BY:
QUANTUM ENGINEERING
PREPARED BY:
DAVID WALTER
SEPTEMBER 1, 2025**

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1. Introduction and Background

The Midland Golf and Country Club (MGCC) is proposing to construct a new clubhouse at 9536 County Road 93, Midland, Ontario. The existing clubhouse will be demolished and the new one constructed in the same location based on the plans prepared by Royal Homes Ltd. (dated, Feb. 1, 2024) and ABC Consultants (2025).

The existing clubhouse has 70 seats in the dining room, 52 seats on the deck and 24 seats at the lounge bar.

This report has been prepared to support the site plan application required for the proposed clubhouse. The development requirements are based on the Record of Consultation, dated June 18, 2024.

The MGCC lands comprise an area of approximately 71 hectares, the location is noted on the Site Plan (prepared by MHBC Planning) included in **Appendix A** and are referred to as the “site” in this report.

The MGCC was founded in 1919 and consists of a two-storey clubhouse, 18-hole golf course, pro shop, administration building, halfway house, event tent and various maintenance buildings.

The proposed clubhouse is comprised of two stories.

The lower level includes an outdoor patio, lower lounge, bar area, boardroom, offices, kitchen, locker rooms and washrooms. The lower level floor area is 711.12 m².

The main level floor includes a covered deck, upper lounge, bar area, cooler, kitchen, storage, offices and washrooms. The main level floor area is 620.0 m².

The proposed clubhouse has a total of 160 restaurant seats and 20 staff. Based on the Site Plan prepared by MHBC, the project planner, there are 112 parking spaces plus two barrier free spaces. Based on information provided by the project planner it is understood that 97 parking spaces are required. It is noted that a loading space is not required.

The analysis and design content in this report has been prepared in accordance with the following:

- i) The Town of Midland Engineering Design Standards (April, 2024).
- ii) Ministry of Environment Stormwater Management Practises Planning and Design Manual (2003).
- iii) Low Impact Development Stormwater Management Planning and Design Guide Version 1.0, CVCA & TRCA (2010).
- iv) Ontario Building Code (Sept. 14, 2012 and current addendums).

The existing and proposed clubhouse locations are shown on the Site Plan prepared by MHBC Planning in **Appendix A**.

2. Water Servicing

Existing

Water supply for the MGCC lands is provided by two private water wells. Private Well#1 (PW1) is located approximately 300m southeast of the clubhouse. Private Well#2 (PW2) is located approximately 360m north of the clubhouse. Refer to Figure 5 and 6 in **Appendix C**.

Both wells are primarily irrigation wells that are operated under PTTW 4740-AXZGGA dated April 27, 2018 and issued by the Ministry of Environment and Climate Change.

The PTTW Supplemental Reports, dated April 23, 2023 and March 12, 2024, prepared by International Water Consultants Ltd. is included in **Appendix D**. A copy of PTTW 4740-AXZGGA is included in the appendix of the reports, which summarizes the details of each well and water takings for the year.

Based on field investigations and discussions with MGCC it is understood that the existing 300mmØ irrigation service from PW1 services the southern portion of the golf course. The existing 25mmØ domestic water supply for the clubhouse area is connected directly to PW1. There are three services connected to the 25mmØ service as follows: one 19mmØ service to the administration building, one 25mmØ to the clubhouse and one 19mmØ service to the halfway house.

Please refer to the Site Servicing and Grading Plan in **Appendix B**.

It is noted that PW1 provides domestic water supply to the existing clubhouse and currently does not include treatment. The owner has confirmed that a review of the system in accordance with O. Reg. 319/08 is currently in progress. It is also noted that **Appendix E** includes copies of water test reports issued by Aquatic & Environmental Laboratory Inc. The Certificate of Analysis reports for testing in 2023 and 2024 generally indicate zero total coliform and zero E. coli with two results in 2024 indicating background bacteria. Testing was completed under O. Reg. 319/08.

Proposed

The proposed clubhouse will be serviced by installing a new 50mmØ service. The installation of the proposed 50mmØ service will be complete with tees to connect existing service laterals to the administration building and halfway house. Please refer to Water Service Design calculations in **Appendix F** and the Site Servicing and Grading Plan in **Appendix B**.

The water service will be complete with frost protection, meter and will be installed in accordance with the OBC (current edition).

3. Wastewater Servicing

Existing

There are two private septic systems on the MGCC lands.

Existing System A is located just west of the clubhouse and along the north side of the parking area. The system services the clubhouse and the halfway house, and is comprised of a conventional septic tank and shallow buried trench style bed. This septic system will be abandoned and de-commissioned under the appropriate permit.

Existing System B is located at the west end of the parking area near the maintenance and storage buildings. The system services the storage building and is comprised of a conventional septic tank and shallow buried trench style bed.

Permits for each system are included in **Appendix G**.

Proposed

The proposed septic system is an Eljen Bed System (Class IV), the design of the system and detailed drawing preparation have been completed by Valiant Engineering. The components of the system are to be provided by Waterloo Biofilter and are detailed on Drawing SS-1 (dated Nov. 28, 2024) in **Appendix H**.

Drawing SS-1 notes that the Daily Design Sewage Flow is 21,745 L/day. The flow is based on 160 restaurant seats, 20 full time employees and 49m² of retail area. Based on the design flow an Environmental Compliance Approval from the MECP is required because the flows are in excess of 10,000 L/day. The ECA permit will be obtained by Valiant Engineering as part of the septic system design process while municipal site plan approval is obtained.

The proposed 150mmØ sanitary sewer system has been designed to collect flows from the proposed clubhouse, the existing administration building and the halfway house and convey them to the proposed septic system. Please refer to the Sanitary Sewer Design Sheet in **Appendix I** and the Site Servicing and Grading Plan (SSGP) in **Appendix B**.

4. Site Grading

The proposed grading of the clubhouse area and the parking lot extension will adhere to the requirements of the Site Plan and stormwater drainage strategy. The details are provided Site Servicing and Grading Plan (SSGP) included in **Appendix B** and will generally match the existing grading where possible.

The design will provide safe conveyance of stormwater away from the proposed clubhouse and direct drainage to the infiltration areas. Earthworks activities will be completed safely with the appropriate erosion and sediment control measures in place.

The maximum proposed slopes in landscape areas is 5:1. Slopes adjacent to all buildings will be a minimum of 2.0% to a maximum of 5.0%.

The proposed widening of the existing parking area will be comprised of:

- 50mm HL3
- 150mm Granular A
- 300mm Granular B

5. Stormwater Management Brief

Pre-Development Conditions and Background

The MGCC lands are approximately 71.45ha in area and the vegetation consists of grassed fairways, mature hardwood forest and various buildings noted above. The lands are bordered by Golf Link Road and estate residential to the north, County Road 93 to the east, vacant mature hardwood forest lands to the south, County Road 93 to the east and hardwood forest to the west.

Topographical mapping for the MGCC lands and the surrounding area is derived from the Simcoe County GIS database. In addition, a number of site visits were conducted prior to preparing this report to confirm drainage and soil type.

Drainage generally flows overland from a southwest to northeast direction on the site towards the intersection of County Road 93 and Golf Link Road. From there runoff is conveyed through the large swamp lands to the northeast, ultimately towards Georgian Bay.

Based on the Simcoe County, Ontario, Soil Survey prepared by the Department of Soils, Ontario Agricultural College (Guelph) and the Department of Agriculture the underlying soils for the MGCC lands are predominantly Tioga Loamy Sand is categorized as Hydrologic Soil Group 'A' (in accordance with the Ontario Ministry of Transportation (MTO) Soil Classification System).

The Tioga Loamy Sand is classed as a good draining soil. This is characterized in a practical way in that rainfall after significant storm events infiltrates within a short period of time and long-term ponding rarely occurs. The Tioga Loamy Sand commonly has a percolation rate (T-time) in the range of 10 to 12 mins/cm.

Post-Development Conditions

The proposed stormwater management strategy for the clubhouse project is based on the general principles of the Ministry of Environment, Planning and Design Manual (March, 2003) and the Low Impact Design Stormwater Management Planning & Design Guide (LID,

authored by the Credit Valley Conservation and the Toronto and Region Conservation Authority (2010).

Given the area of the property (71.54ha), stormwater management has been considered in this brief for the immediate clubhouse area and west parking lot only. In addition, as part of the pre-consultation process the Town of Midland Engineering Department reviewed and agreed to a proposal to provide a “best efforts” approach to stormwater management for the new clubhouse. This approach is based on the very minor increase in impervious area as noted below.

It should also be noted that there are no improvements for the remainder of the property.

In terms of comparison of pre-development to post-development impervious levels there are two areas where an increase is proposed as noted below.

The proposed clubhouse will be situated on the same footprint as the existing clubhouse and is approximately the same area. In addition, the proposed asphalt widening is comprised of a narrow strip along the northern edge of the existing parking lot (1.5m wide x 88m long). Table 1.0, below summarizes the pre and post-development areas.

Table 1.0

Pre-Development			
	Asphalt	7,979	m ²
	Buildings	1,745	m ²
	Total	9,724	m ²
Post-Development			
	Asphalt	8,082	m ²
	Buildings	1,733	m ²
	Total	9,815	m ²

The above summary of impervious areas represents an increase of 0.9% for the proposed clubhouse and asphalt widening. An increase of this magnitude is considered nominal.

Based on the above it is proposed that the stormwater management controls be provided on a “best efforts” basis. Therefore, it is proposed that infiltration facilities be installed adjacent to the parking lot widening and at each corner of the proposed clubhouse.

The “best efforts” stormwater control will be provided by installing an Infiltration Trench 1.5m wide x 1.5m deep x 88m long (Refer to Drawing SSGP in **Appendix B**). The storage volume provided is approximately 79m³. The supporting calculation for the Infiltration Trench can be found in **Appendix J**.

The building area infiltration will be achieved by installing four infiltration pits around the building that will each be 2mW x 2mL x 2mD (Refer to Drawing SSGP in Appendix B). The total storage volume provided is 12.8m³. The supporting calculation for the Infiltration Pits can be found in **Appendix J**.

Quality control of runoff will be provided in the infiltration trench. The trench will include a pre-treatment filter strip that will capture sediment from the first flush of rainfall events. This will prevent the main body of the infiltration area from clogging with sediment over time. The design includes operation and maintenance requirements for cleaning and replacement when it eventually fills with sediment.

It is noted that there is a 75m long existing grassed swale located approximately 150m north of the clubhouse area (Refer to Drawing SSGP in **Appendix B**). The swale and the large grassed areas of overland drainage provide conveyance of flows for the clubhouse area and provides phosphorus removal. The existing swale is essentially an enhanced grass swale.

These type of stormwater management features are identified and recognized in the Low Impact Development Stormwater Management Manual (LIDSMM). The manual provides information for municipalities, developers, consultants, agencies and others on the benefits of managing rain where it falls and where snow melts, including performance guidance on controlling runoff volume.

The median mass removal rate for the enhanced grass swale is approximately 55% of phosphorus.

The above noted infiltration areas are proposed to provide quality control of post-development flows prior to discharging to the downstream overland outlet at County Road 93 and Vindin Street.

6. Erosion and Sediment Control

Topsoil removal will be limited to the construction areas only. Exposed or new soil will be seeded or sodded as soon as reasonable after construction has been completed. All topsoil stockpiles shall be kept at a low level to facilitate weed cutting and maintenance.

During the construction period of the clubhouse project Light Duty Silt Fence, as per OPSD 219.110, will be installed and maintained until new vegetation has been established per the recommendations of the Engineer on the downstream side of all excavations. The silt fence shall be inspected periodically and repaired as needed per the recommendations of the owner's agents/consultants (all in accordance with municipal and MECP guidelines).

Mud tracking onto County Road 93 will be controlled via a mud mat to be constructed on site. The mat shall be constructed of clear stone and replaced as required by the owner's agents/consultants (all in accordance with municipal and MECP guidelines).

The owner's agents/consultant shall complete periodic inspections during the construction period and after significant rainfall events and provide direction to the owner/contractor to carry out repairs and or replacement as required.

7. Utilities

The MGCC property is currently serviced by Newmarket-Tay Hydro (hydro), Bell (telephone) and propane for building heat (on site storage tanks). The proposed clubhouse will be serviced by the above existing services. Connection of these existing services to the proposed clubhouse will be coordinated by MGCC and the appropriate contractor/agency. Any required upgrades to the hydro service will be coordinated by MGCC with Newmarket-Tay Hydro.

It is noted that MGCC is currently in discussions with Enbridge to eventually extend the existing gasmain from the intersection of County Road 93 and Vindin Street to the MGCC entrance complete with a service lateral to the clubhouse.

8. Traffic Statement

It is noted that the anticipated traffic volume in the post-development condition will be similar to the pre-development condition. At the time of report preparation there were no known problem areas on the MGCC lands in terms of parking and vehicle turning movements.

9. Conclusions

The Functional Servicing Report and Stormwater Management Brief has been prepared to support the Site Plan Approval application. The report demonstrates that the site and project can be serviced in accordance with the Town of Midland Engineering Development Design Standards and SSEA guidelines. The following site servicing specifics are noted:

1. The proposed clubhouse can be serviced by the existing private wells on the site. The existing 25mmØ water service to the existing clubhouse will be upgraded to a new 50mmØ service.
2. The proposed on site wastewater system, manufactured by Waterloo Biofilter, will adequately service the proposed clubhouse.
3. The parking area widening, the proposed wastewater treatment area and the clubhouse surroundings can be safely and adequately graded to service the project.
4. A "best efforts" approach to stormwater management will provide quality control given the size and nature of the site.

5. The appropriate erosion and sediment controls will be installed during the construction period and inspected by the owner's agent/consultant in order to provide adequate controls as per MECP and the Town of Midland.
6. The existing utilities currently servicing the existing clubhouse will be disconnected and re-connected to the new clubhouse. The MGCC are in discussions with Enbridge to provide a new service via extension of the existing gas main to the site.

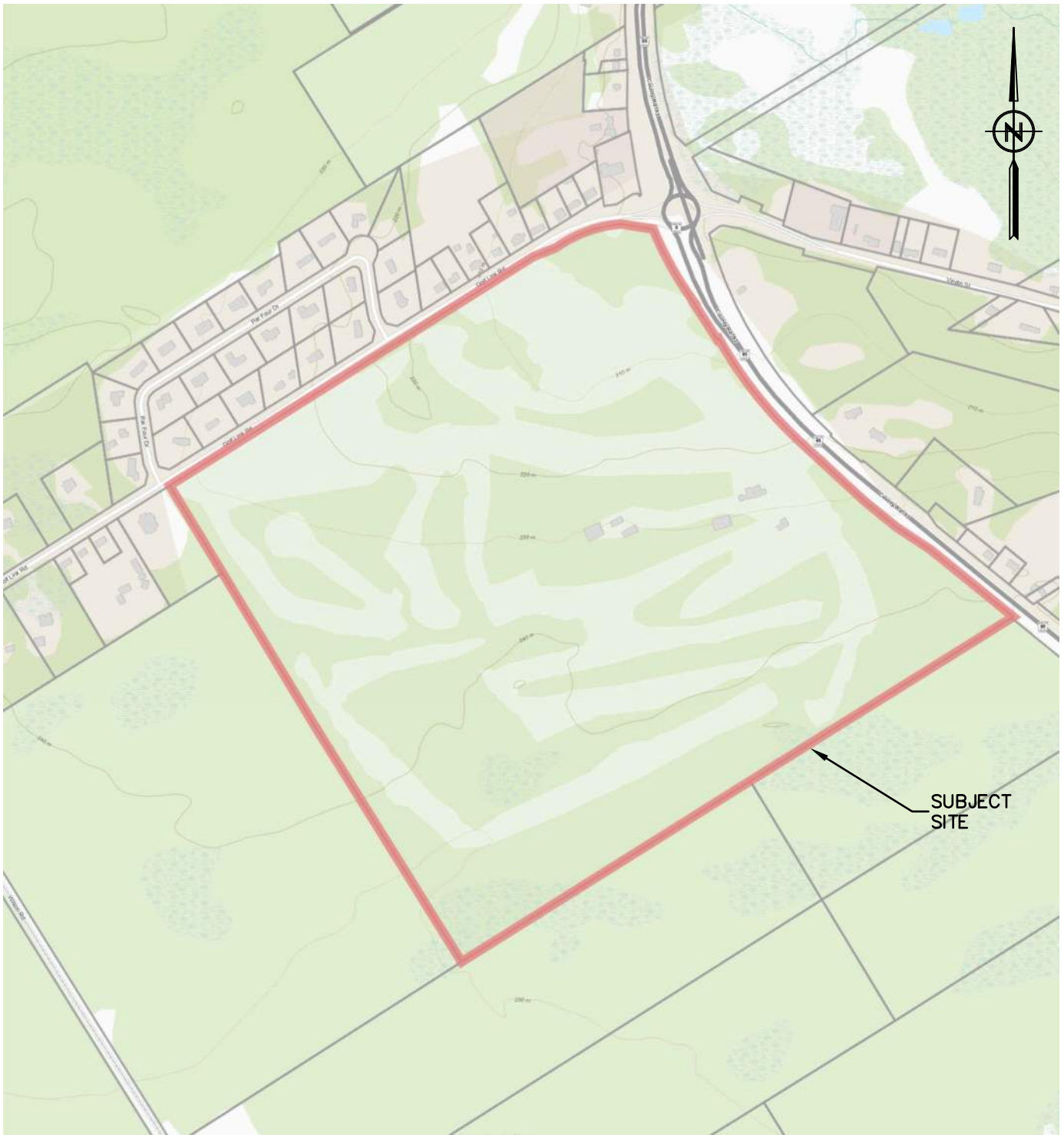
The above report is respectfully submitted to the Town of Midland in support of planning level approvals.



David Walter



Quantum Engineering



Drawing Title
SITE LOCATION PLAN

D. Walter
771 Dominion Avenue
Midland, ON
L4R 1S4

Project Title
PROPOSED CLUBHOUSE
MIDLAND GOLF AND
COUNTRY CLUB

Drawn By
LW

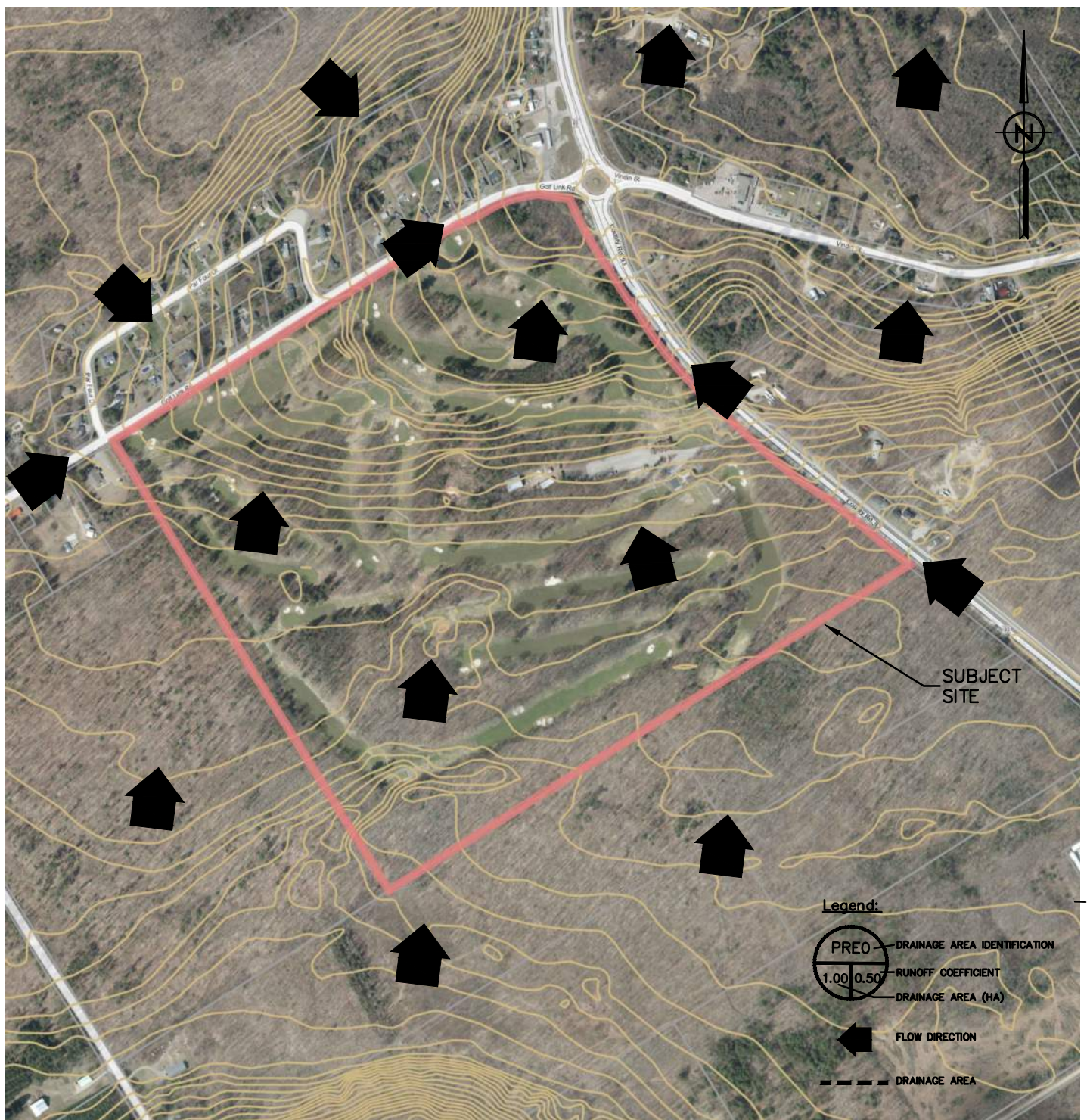
Checked By
DW

Figure No.

Scale
N.T.S.

Project
MGCC

FIG1



Drawing Title

EXTERNAL DRAINAGE PLAN

D. Walter
771 Dominion Avenue
Midland, ON
L4R 1S4

Project Title

PROPOSED CLUBHOUSE
MIDLAND GOLF AND
COUNTRY CLUB

Drawn By
LW

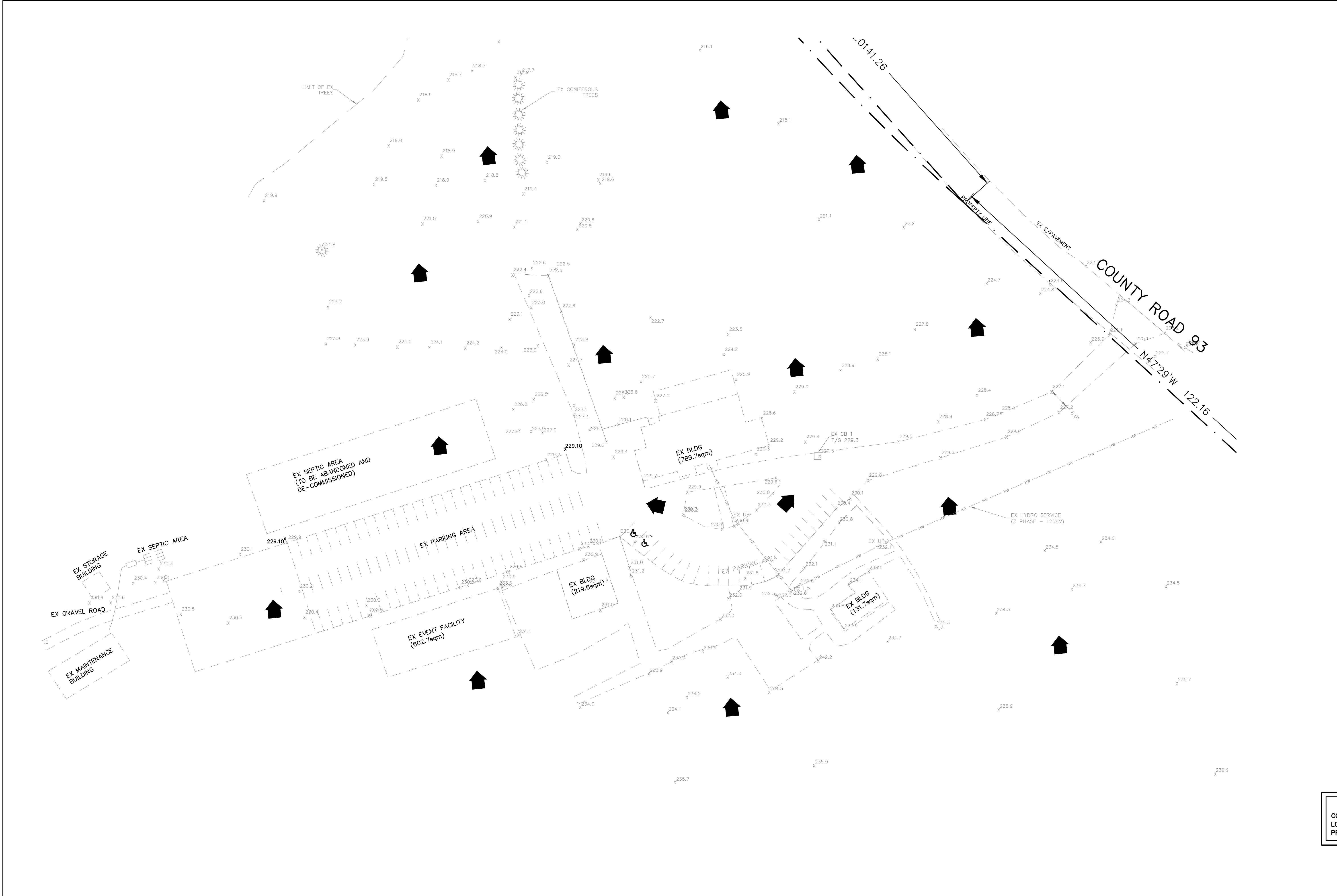
Checked By
DW

Figure No.

Scale
N.T.S.

Project
MGCC

FIG2



KEY PLAN:

SUBJECT SITE

SITE SPECIFIC NOTES:
1. TOPOGRAPHIC SURVEY COMPLETED AUG 18, 2023.
2. REFER TO ARCHITECTURAL PLANS PREPARED BY ROYAL HOMES (JANUARY 4, 2022).

Legend:

DRAINAGE AREA IDENTIFICATION

RUNOFF COEFFICIENT

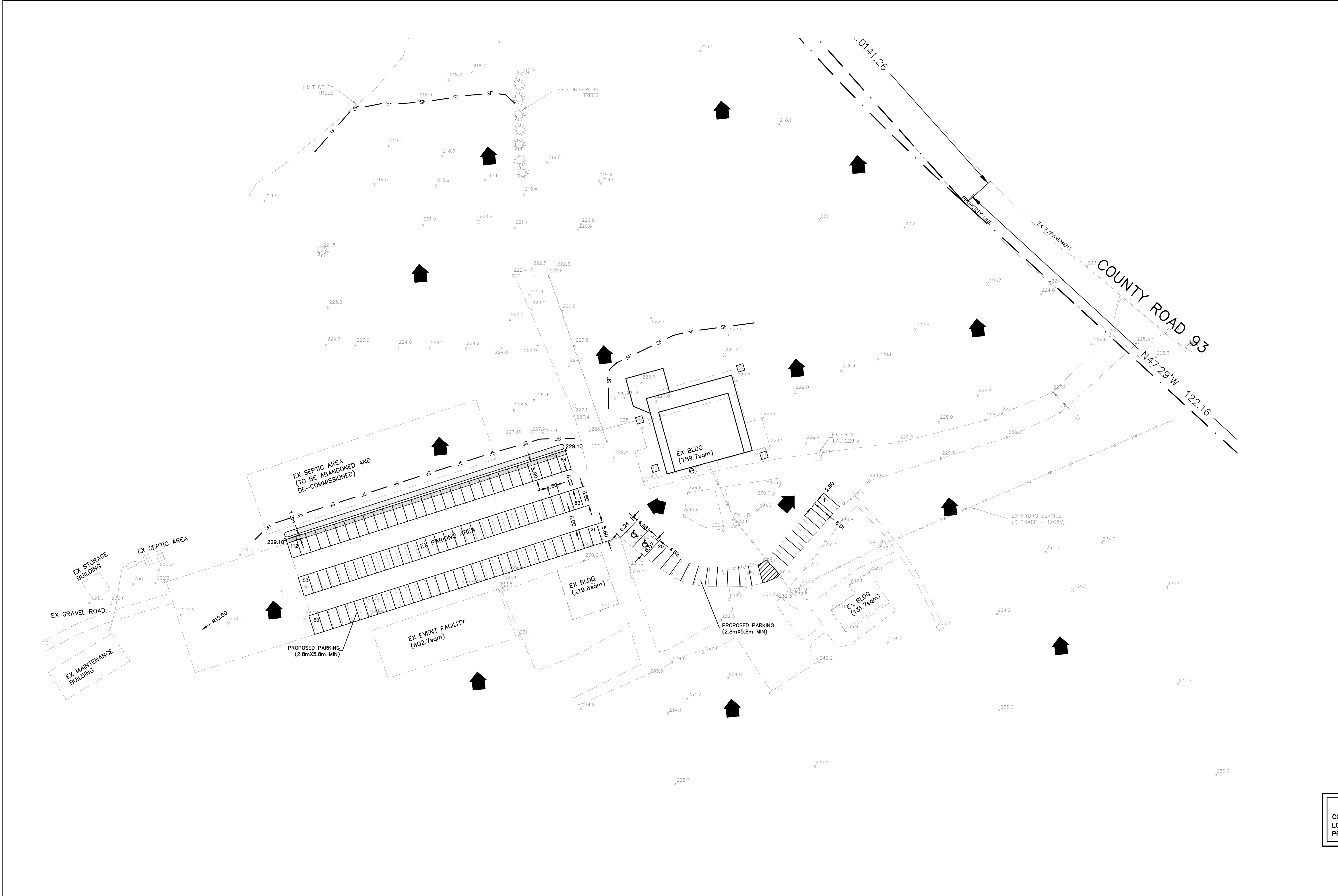
DRAINAGE AREA (HA)

FLOW DIRECTION

DRAINAGE AREA

CAUTION
CONTRACTOR TO DETERMINE
LOCATION OF EXISTING UTILITIES
PRIOR TO CONSTRUCTION.

General Notes: 1. All dimensions on this drawing are shown in metric, unless noted otherwise. 2. This drawing has been prepared by DWS. Any unauthorized use is prohibited. 3. Property boundary information is based on the references noted on the drawing. 4. Utility locates are to be obtained by the contractor prior to the start of any construction. 5. All elevations are based on the benchmark noted on the drawing. 6. The contractor shall verify all existing and proposed dimensions and notify all parties of any discrepancies. 7. Only the accepted for construction drawings shall be used by the contractor for construction. 8. It is understood and acknowledged by the contractor that this drawing is to be included along with all other relevant documents related to the project.	Benchmark .	Elevation= 					No. Issue / Revision	Date	Drawing Title: PRE-DEVELOPMENT DRAINAGE PLAN	Project: PROPOSED CLUBHOUSE MIDLAND GOLF AND COUNTRY CLUB	D. Walter 771 Dominion Avenue Midland, ON L4R 1S4			
							1	FIRST SUBMISSION						SEP 1, 2025
											Drawn By LW	Checked By DW	Drawing No.	
											Scale 1:500	Project MGCC	FIG3	



KEY PLAN:

SITE SPECIFIC NOTES:
1. TOPOGRAPHIC SURVEY COMPLETED AUG 18, 2023.
2. REFER TO ARCHITECTURAL PLANS PREPARED BY ROYAL HOMES (JANUARY 4, 2022).

Legend:

DRAINAGE AREA IDENTIFICATION

RUNOFF COEFFICIENT

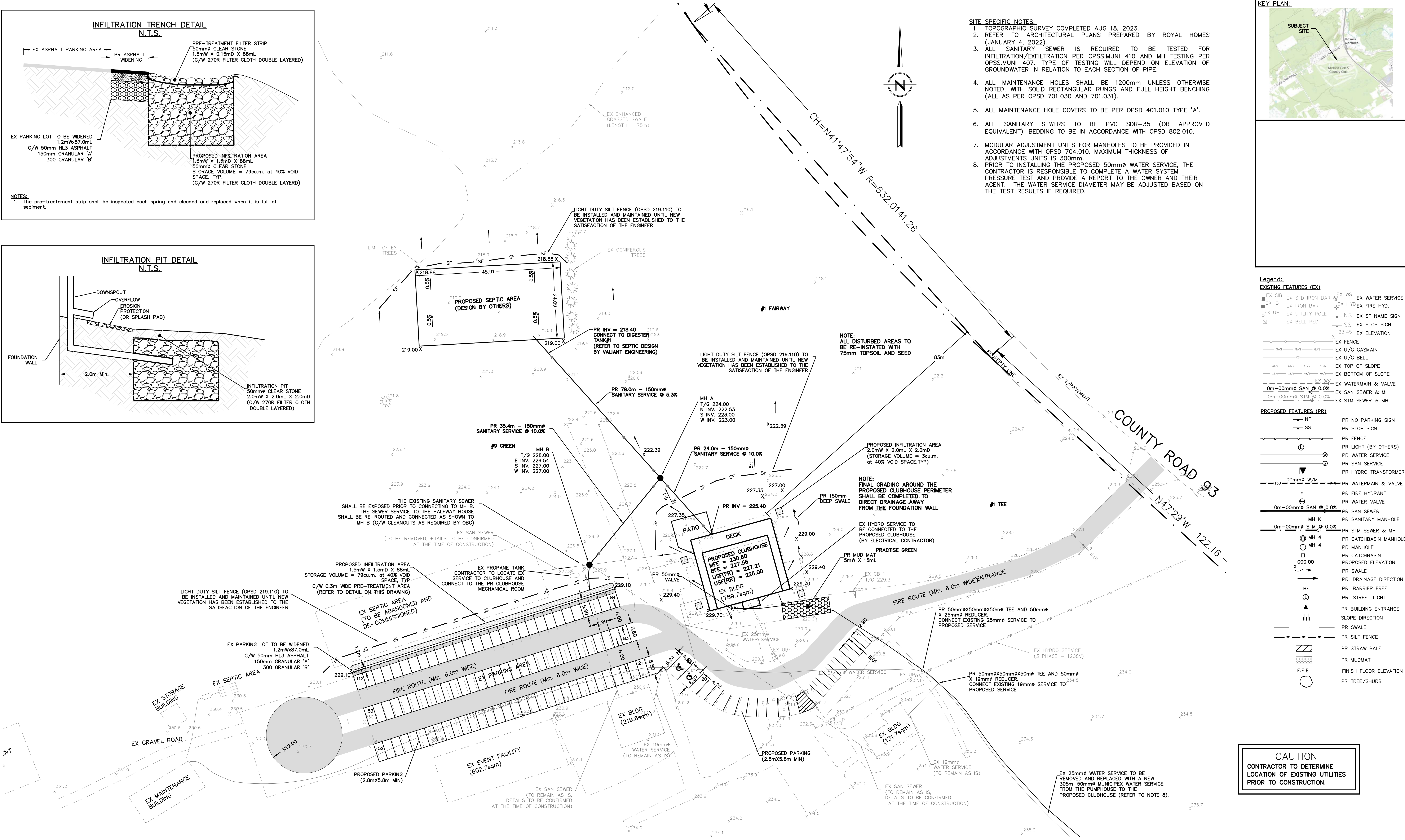
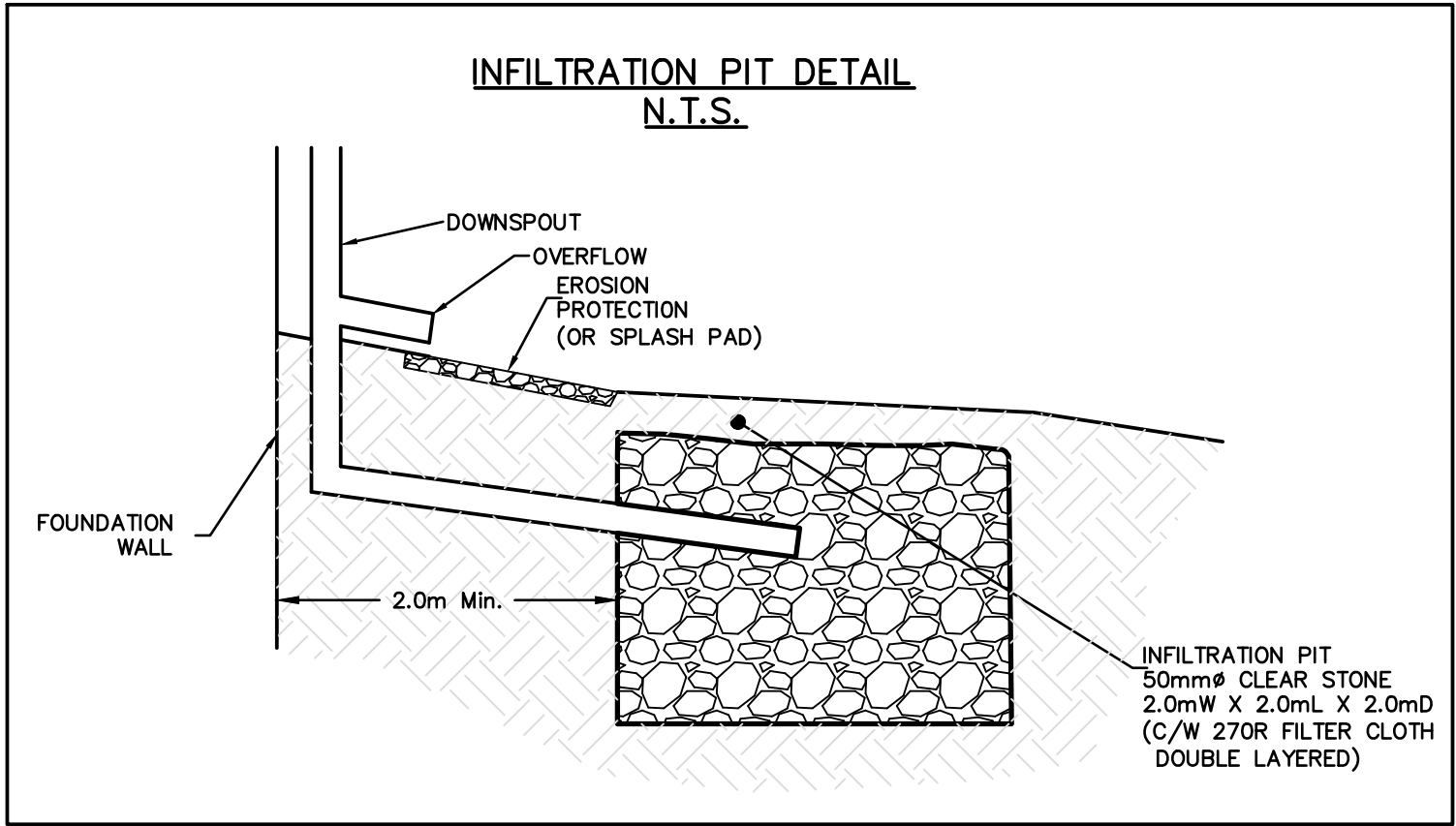
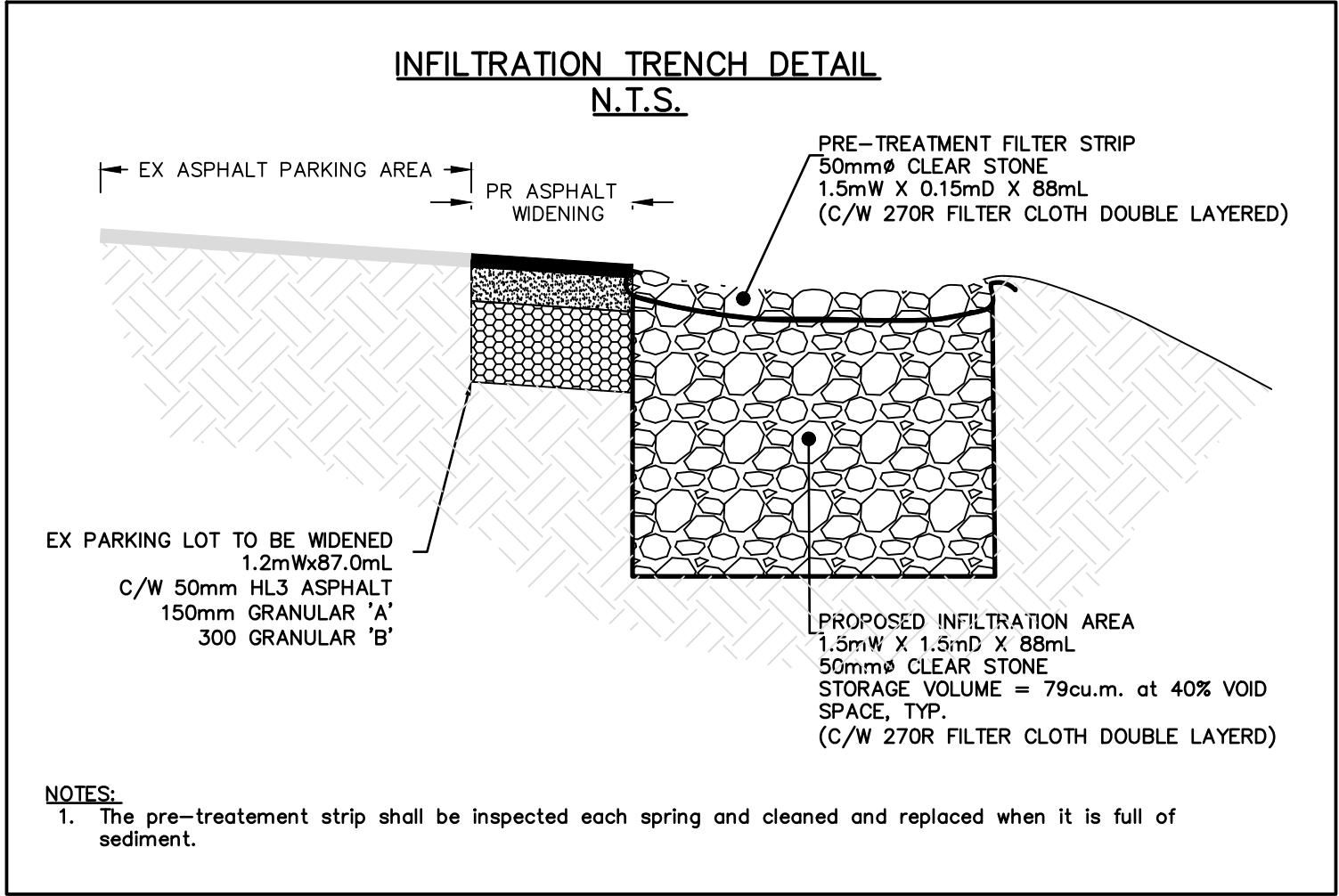
DRAINAGE AREA (HA)

FLOW DIRECTION

DRAINAGE AREA

CAUTION
CONTRACTOR TO DETERMINE
LOCATION OF EXISTING UTILITIES
PRIOR TO CONSTRUCTION.

<u>General Notes:</u> 1. All dimensions on this drawing are shown in metric, unless noted otherwise. 2. This drawing has been prepared by DWS. Any unauthorized use is prohibited. 3. Property boundary information is based on the references noted on the drawing. 4. Utility locates are to be obtained by the contractor prior to the start of any construction. 5. All elevations are based on the benchmark noted on the drawing. 6. The contractor shall verify all existing and proposed dimensions and notify all parties of any discrepancies. 7. Only the accepted for construction drawings shall be used by the contractor for construction. 8. It is understood and acknowledged by the contractor that this drawing is to be included along with all other relevant documents related to the project.	<u>Benchmark</u> .	<u>Elevation=</u>					No. Issue / Revision	Date	<u>Drawing Title:</u> POST-DEVELOPMENT DRAINAGE PLAN	<u>Project:</u> PROPOSED CLUBHOUSE MIDLAND GOLF AND COUNTRY CLUB	D. Walter 771 Dominion Avenue Midland, ON L4R 1S4			
							1	FIRST SUBMISSION						SEP 1, 2025



General Notes: 1. All dimensions on this drawing are shown in metric, unless noted otherwise. 2. This drawing has been prepared by DWS. Any unauthorized use is prohibited. 3. Property boundary information is based on the references noted on the drawing. 4. Utility locates are to be obtained by the contractor prior to the start of any construction. 5. All elevations are based on the benchmark noted on the drawing. 6. The contractor shall verify all existing and proposed dimensions and notify all parties of any discrepancies. 7. Only the accepted for construction drawings shall be used by the contractor for construction. 8. It is understood and acknowledged by the contractor that this drawing is to be included along with all other relevant documents related to the project.				Benchmark Elevation=		No. Issue / Revision 1 FIRST SUBMISSION		Date SEP 1, 2025	Drawing Title: SITE SERVICING AND GRADING PLAN	Project: PROPOSED CLUBHOUSE MIDLAND GOLF AND COUNTRY CLUB	D. Walter 771 Dominion Avenue Midland, ON L4R 1S4
											Drawn By LW
											Checked By DW
											Scale 1:500
											Project MGCC
											Drawing No. SSGP



FIGURE 5



FIGURE 6

MIDLAND GOLD AND COUNTRY CLUB

**PERMIT TO TAKE WATER
NUMBER 4740-AXZGGA
SUPPLEMENTAL REPORT**

by

INTERNATIONAL WATER CONSULTANTS LTD.

April, 2023



INTERNATIONAL WATER CONSULTANTS LTD.

INTRODUCTION

International Water Consultants Ltd. was requested by Midland Golf and Country Club to undertake the reporting of groundwater withdrawals and water level information to fulfil the conditions of the Permit to Take Water Number 4740-AXZGGA.

BACKGROUND

These PTTW conditions include maintaining a continuous water level recorder, in well PW2 (MECP ID 5704503), or another monitoring well of comparable depth in this area. A Solinst Levellogger with associated Barologger was installed in 2014 in the “Old Well” approximately 9.85m south of PW2. The Levellogger is programmed at hourly recording intervals. The current dataset begins in April 2020, just prior to the Golf Club’s 2020 irrigation season. The water level in PW2 and the Old Well are measured manually with a water level indicator. Historically, manual water level measurements at PW 1 (MECP ID 5704502), were not possible due to the dual pumping arrangement, power cables, and the approximate 44m water level. This was improved in August 2020, when a Well Contractor installed stilling tubes to depth 85m, during pumping equipment upgrades.

Midland Golf and Country Club maintains in-line flow meters at Wells PW1 and PW2 and collects and records daily volumes and flow rates. This water taking data and water levels from the Old Well are presented in the following graphs and Tables.

PW1 is approximately 650 metres south of PW 2. PW1 is 1,100 metres north-west of The Town of Midland Well No. 9, and PW 2 is approximately 1,500 metres east of The Town of Midland Vindin Street Wellfield. Previous reports indicate that potentially 0.2m of interference from these wells is seen in the water level trends from the Midland Golf Old Well.

PRODUCTION

The following tables summarize the Total Annual Withdrawal, Average Daily Withdrawal, and Maximum Daily Withdrawal, in cubic meters. To clarify, this average is calculated using the sum of the total well withdrawals divided by the number of days that the well was operated during the year.



Table 1 - Summary of Withdrawals from PW 1

Well PW 1	# of Days Production	Total Annual Withdrawal (m ³)	Average Daily Withdrawal (m ³)	Maximum Daily Withdrawal (m ³) PTTW = 1,090(m ³)
2020	91	50,366.25	553.48	1,068.58
2021	132	65,204.44	493.97	1,087.90
2022	86	40,840.60	474.89	853.07

Table 2 - Summary of Withdrawals from PW 2

Well PW 2	# of Days Production	Total Annual Withdrawal (m ³)	Average Daily Withdrawal (m ³)	Maximum Daily Withdrawal (m ³) PTTW = 817.2 (m ³)
2020	158	39,989.40	253.10	621.23
2021	166	34,541.14	208.08	642.01
2022	144	34,582.34	240.16	681.98

Table 3 - Summary of Combined Withdrawals from PW1 and PW 2

Year	Well PW 1 Annual Withdrawal (m ³)	Well PW 2 Annual Withdrawal (m ³)	Combined 24 Hr Max Withdrawal (m ³)*	Combined Annual Withdrawal (m ³)
2020	50,366.25	39,989.40	1,582.0	90355.65
2021	65,204.44	34,541.14	1,573.9	99745.58
2022	40,840.60	34,582.34	1,393.0	75422.94

* on one individual day each year



Typical irrigation seasons average from May to October. Between 2020 and 2022, PW 1 was in operation an average of 103 days per year and PW 2 an average of 156 days per year, over this three year period. It is noted that PW 1 was out of service for 64 days during the 2020 irrigation season for pump repair.

WATER LEVELS

Hourly water levels are recorded using a Solinst Levellogger that is installed in the Old Well, 9.85m south of PW2. The data has been barometrically compensated to remove the barometric pressure fluctuations from the submerged Levellogger recordings with hourly recordings from the on-site Barologger.

Water levels in the Old Well appear to have approximately one meter of interference from the operation of PW2. The water level response at the Old Well from production at PW1, some 620 metres away, appears to be marginal.

As previously mentioned, the water level trend has a “saw-tooth” pattern during times of non-production. It is presumed that this water level variation of approximately 0.15 to 0.2 m is from the usage of the nearby Town of Midland Municipal Wells.

In general, for the three years of data that was processed, the water levels at the Old Well maintained around the 194.2mASL range during irrigation events, with a static water level elevation in the 195.2mASL range.

Following well and pump maintenance at PW1 in August 2020, a stilling tube was installed to facilitate manual collection of water levels. It is suggested that a weekly non-pumping and pumping water levels be measured and recorded at this well site. This would assist in tracking the well performance, water level and potential deterioration of the well.

Conclusions and Recommendations

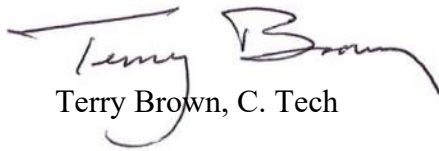
- Midland Golf and Country Club water use for irrigation was within the permitted withdrawals.
- Water level monitoring is completed automatically in an old production well near PW2. These data indicated about 1 meter of interference from the pumping of PW2.
- It is suggested that weekly water level measurements and the ON/OFF status be recorded at PW1, now that a stilling tube had been installed to facilitate this.



- No adverse effects of the withdrawals have been reported, however, some apparent measurable water level fluctuation is seen which is thought to be from the Midland Town Wells. This fluctuation is negligible in the order of 0.15 to 0.2m.

Please do not hesitate to contact us if you have any questions or concerns.

Yours truly,
International Water Consultants Ltd.



Terry Brown, C. Tech



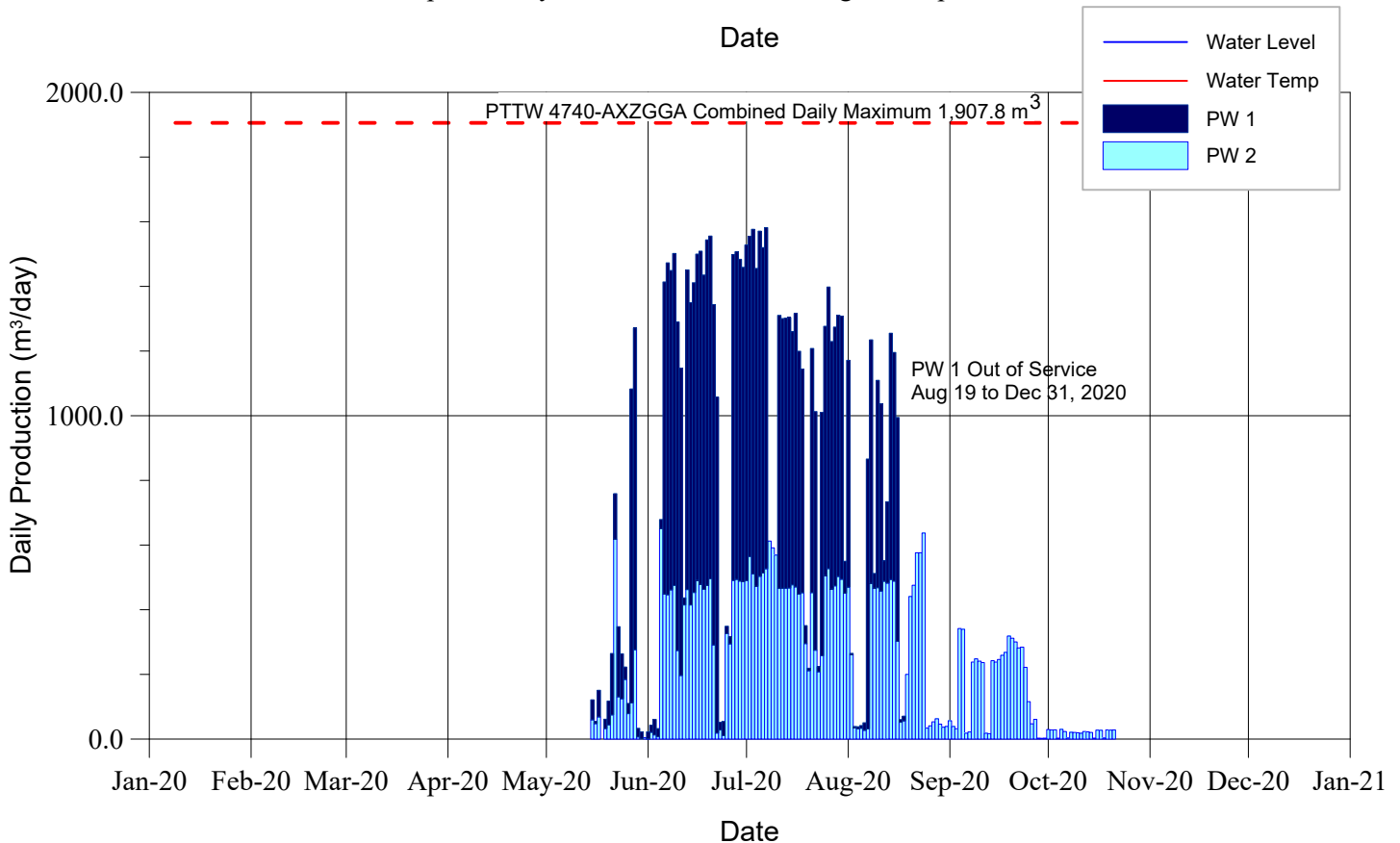
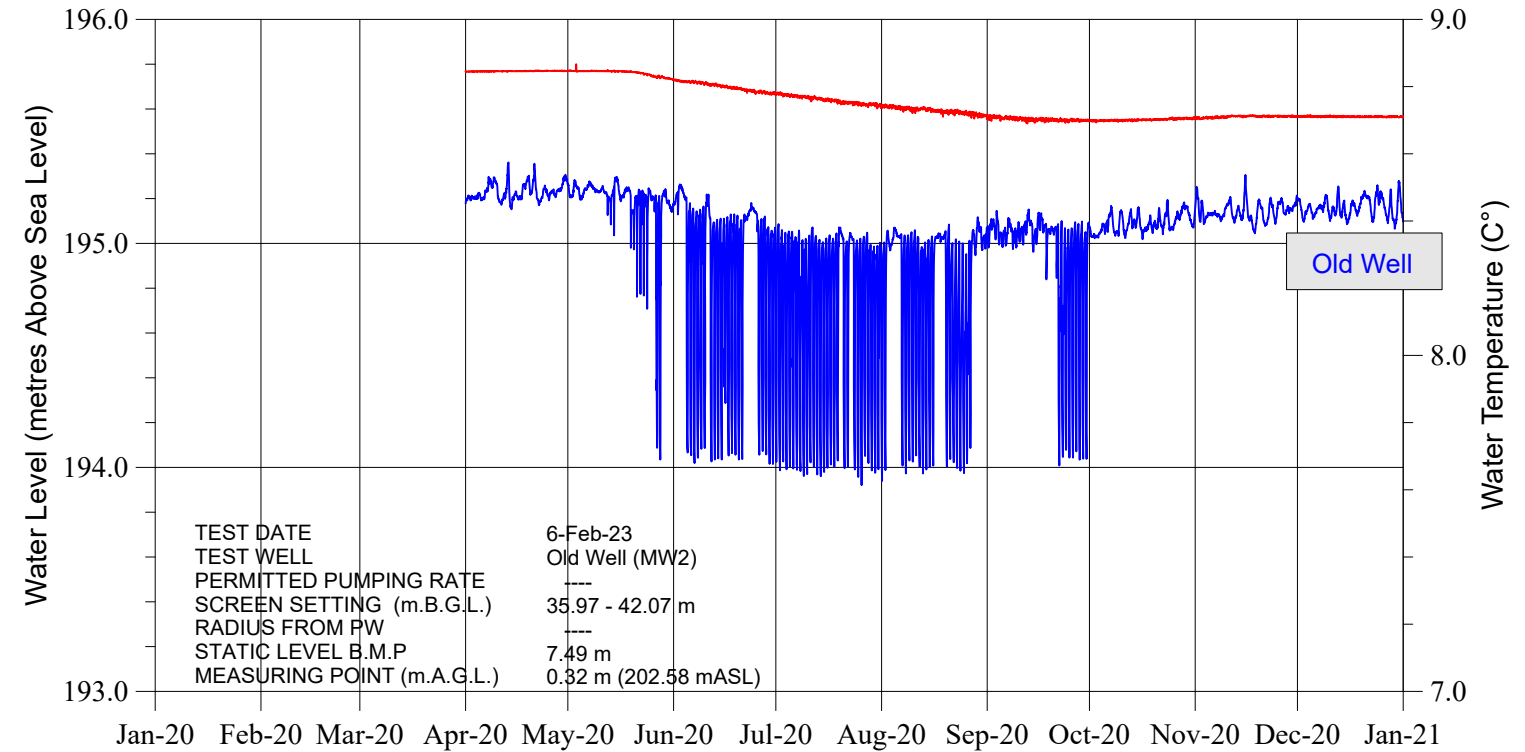
DRAWINGS



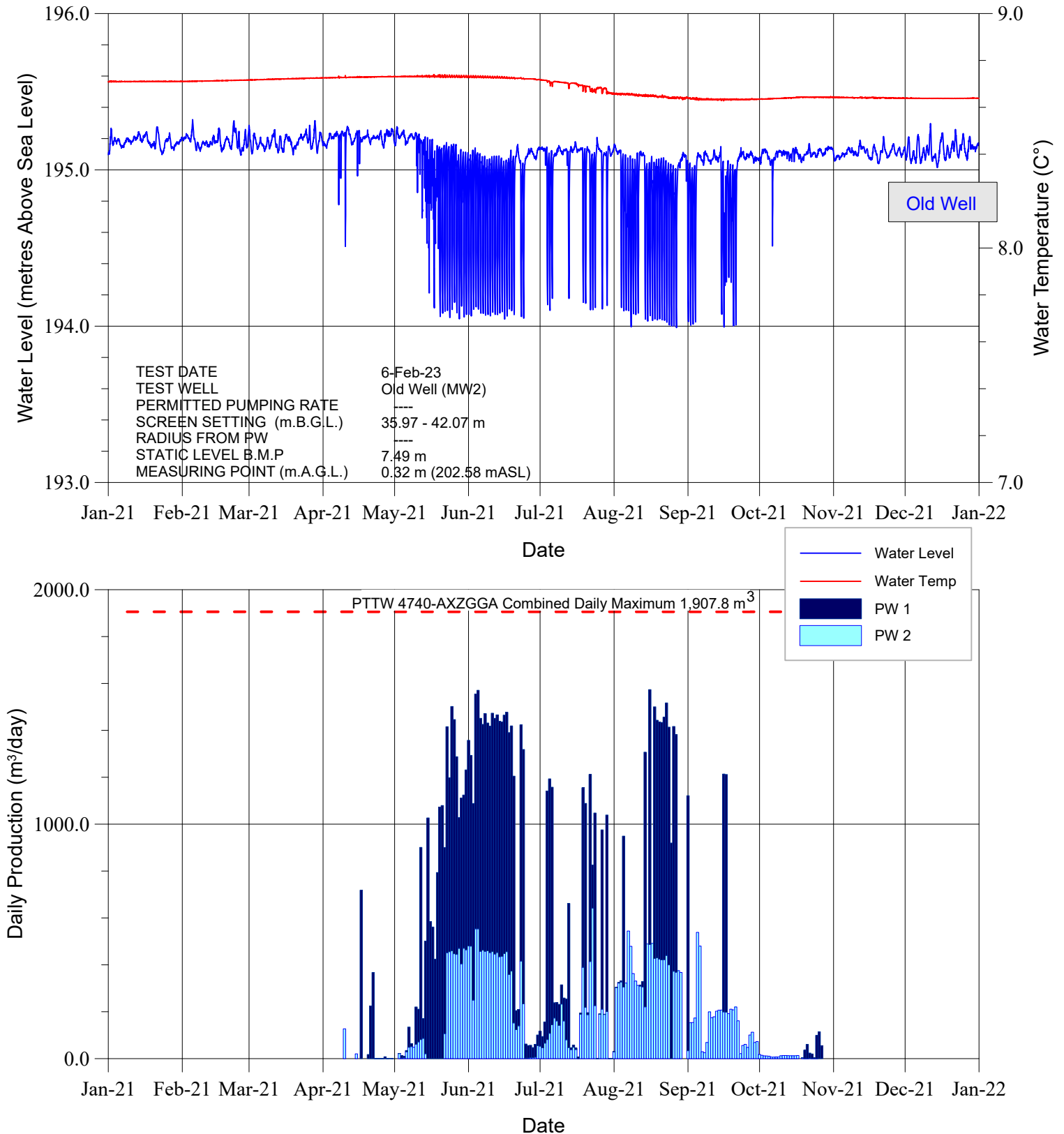
INTERNATIONAL WATER CONSULTANTS LTD.

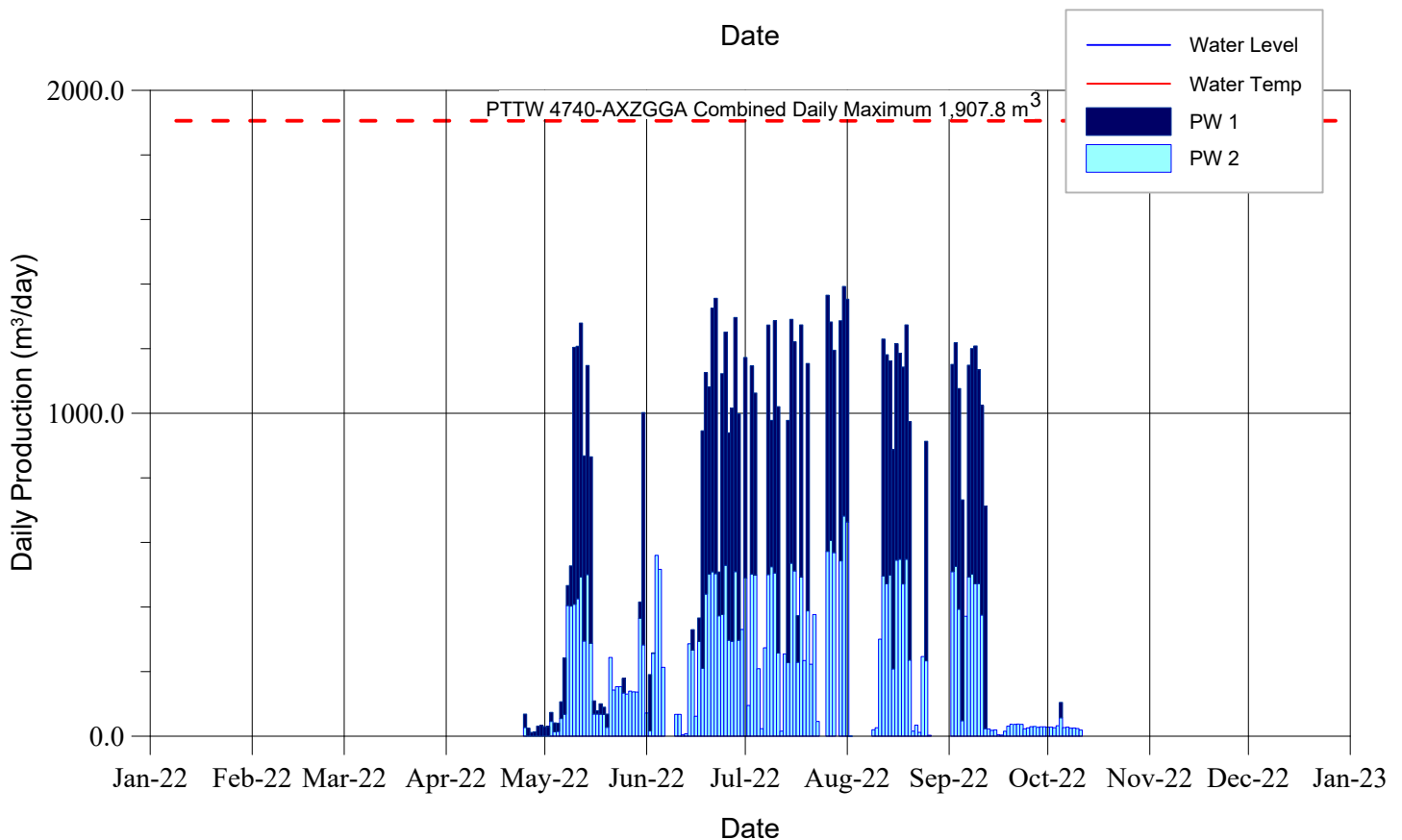
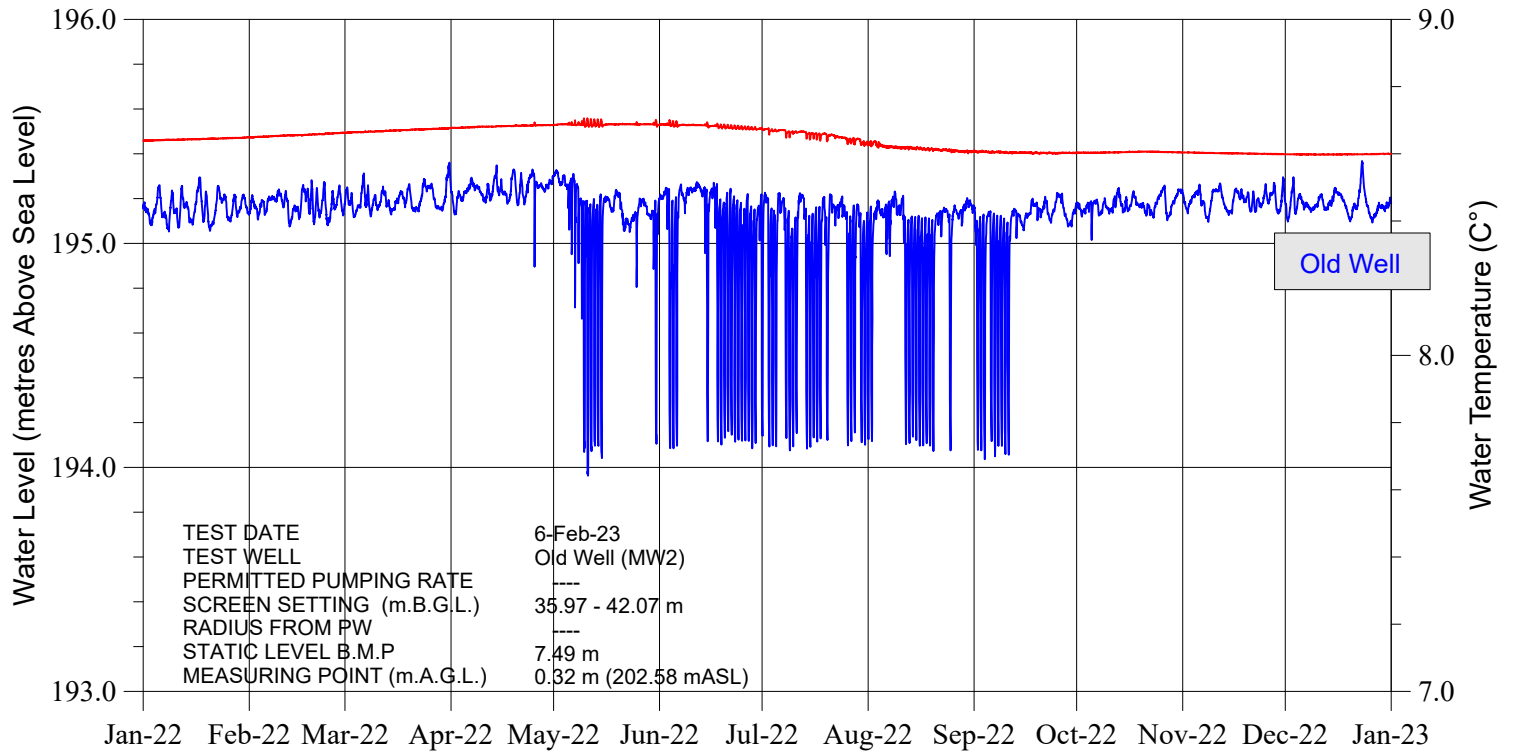


International Water Consultants Ltd.



MIDLAND GOLF AND COUNTRY CLUB
"OLD WELL" WATER LEVEL HYDROGRAPH WITH
PW 1 and PW2 2020 COMBINED DAILY PRODUCTION
Dwg. No. A23047





APPENDIX



INTERNATIONAL WATER CONSULTANTS LTD.

UTM 17 Z 585144 E

57 No 1502

9 1967

5 R 4954948 N

The Ontario Water Resources Commission Act

Elev. 6 R 0245

WATER WELL RECORD

Basin 22County or District SimcoeTownship, Village, Town or City TinyCon. 1 W.P.R.Lot E. half 109Date completed 28th January 1967
(day month year)Address Midland Ont.

Casing and Screen Record

Inside diameter of casing 10"
Total length of casing 312'
Type of screen 10" x 16 slot stainless steel
Length of screen 25'
Depth to top of screen 312'
Diameter of finished hole 10"

Pumping Test

Static level 154'
Test-pumping rate 383 G.P.M.
Pumping level 208'
Duration of test pumping 24 hrs.
Water clear or cloudy at end of test clear
Recommended pumping rate 350 G.P.M.
with pump setting of 250 feet below ground surface

Well Log

Water Record

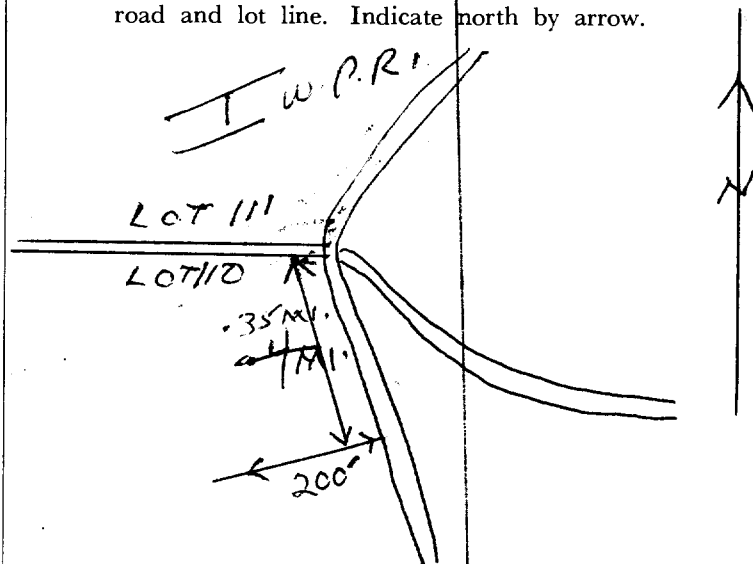
Overburden and Bedrock Record

	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>gravel & stones</u>	<u>0</u>	<u>14</u>	<u>300</u>	<u>fresh</u>
<u>coarse sand</u>	<u>14</u>	<u>170</u>		
<u>medium sand</u>	<u>170</u>	<u>266</u>		
<u>fine sand</u>	<u>266</u>	<u>309</u>		
<u>coarse & medium sand</u>	<u>309</u>	<u>338</u>		

For what purpose(s) is the water to be used? IrrigationIs well on upland, in valley, or on hillside? uplandDrilling or Boring Firm Snider DrillingAddress CraighurstLicence Number 2272Name of Driller or Borer R. SniderAddress CraighurstDate Jan. 28/67Ralph Snider
(Signature of Licensed Drilling or Boring Contractor)

Location of Well PW 1

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Re the screen

Top 15 feet
Bottom 5 feet
UTM Z 5 8 4 8 9 7 E 15
9 R 4 9 5 5 3 4 2 N



ONTARIO

41

57 No 4503

GROUND WATER BRANCH

FEB 25 1958

ONTARIO WATER
RESOURCES COMMISSION

Elev 9 R 0 6 7 0

The Water-well Drillers Act, 1954

Department of Mines

Basin 2 2

Water-Well Record

County or Territorial District Simcoe Township, Village, Town or City Troy

in Village, Town or City)

Address

(day)

(month)

(year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 10"
Length(s) 118'
Type of screen Johnson wire wound
Length of screen 20 feet + 2 feet 6" of fittings + lead packer
Static level 26'
Pumping rate 206 G.P.M.
Pumping level 98
Duration of test 1 day

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
<u>Top soil</u>	<u>0</u>	<u>2</u>			
<u>Reddish sand</u>	<u>2</u>	<u>50</u>			
<u>Blue clay marl</u>	<u>50</u>	<u>55</u>			
<u>Blue clay sand</u>	<u>55</u>	<u>65</u>			
<u>Hard pan</u>	<u>65</u>	<u>70</u>			
<u>Blue clay hard pan</u>	<u>70</u>	<u>90</u>			
<u>Hard pan gravel</u>	<u>90</u>	<u>97</u>			
<u>Sandy clay mixed with hard balls of clay</u>	<u>97</u>	<u>105</u>			
<u>Medium sand</u>	<u>105</u>	<u>124</u>	<u>105 - 140</u>	<u>117</u>	<u>fresh</u>
<u>Coarse sand</u>	<u>124</u>	<u>140</u>			
<u>Sand becoming fine and silty</u>	<u>140</u>	<u>—</u>			

For what purpose(s) is the water to be used?

Irrigation

Is water clear or cloudy? Clear

Is well on upland, in valley, or on hillside? Valley

Drilling firm ...

Address

Name of Driller Charles E. Snider

Address Woodbridge

R.R. #1 Ont

Licence Number 219

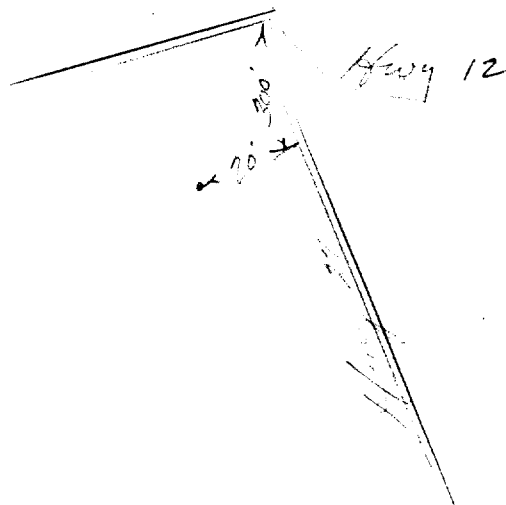
I certify that the foregoing statements of fact are true.

Date Feb. 9/58 Charles E. Snider

Signature of Licensee

Location of Well PW 2

In diagram below show distances of well from road and lot line. Indicate north by arrow.





MIDLAND GOLD AND COUNTRY CLUB

**PERMIT TO TAKE WATER
NUMBER 4740-AXZGGA
SUPPLEMENTAL REPORT**

by

INTERNATIONAL WATER CONSULTANTS LTD.

March 12, 2024

INTRODUCTION

International Water Consultants Ltd. was requested by Midland Golf and Country Club to undertake the reporting of groundwater withdrawals and water level information to fulfil the conditions of the Permit to Take Water Number 4740-AXZGGA.

BACKGROUND

These PTTW conditions include maintaining a continuous water level recorder, in well PW2 (MECP ID 5704503), or another monitoring well of comparable depth in this area. A Solinst Levellogger with associated Barologger was installed in 2014 in the “Old Well” approximately 9.85m south of PW2. The Levellogger is programmed at hourly recording intervals. The current dataset begins in April 2023, just prior to the Golf Club’s 2023 irrigation season. The water level in PW2 and the Old Well are measured manually with a water level indicator. Historically, manual water level measurements at PW 1 (MECP ID 5704502), were not possible due to the dual pumping arrangement, power cables, and the approximate 44m water level. This was improved in August 2020, when a well contractor installed a reverse reading altitude gauge, enabling the user to measure the water level without opening the well. A stilling tube is also installed in PW1 to a depth of 85 m, however there is no access port in the discharge head.

Midland Golf and Country Club maintains in-line flow meters at Wells PW1 and PW2 and collects and records daily volumes and flow rates. This water taking data and water levels from the Old Well are presented in the following graphs and Tables.

PW1 is approximately 650 metres south of PW 2. PW1 is 1,100 metres north-west of The Town of Midland Well No. 9, and PW 2 is approximately 1,500 metres east of The Town of Midland Vindin Street Wellfield. Previous reports indicate that potentially 0.2m of interference from these wells is seen in the water level trends from the Midland Golf Old Well.

PRODUCTION

The following tables summarize the Total Annual Withdrawal, Average Daily Withdrawal, and Maximum Daily Withdrawal, in cubic meters. To clarify, this average is calculated using the sum of the total well withdrawals divided by the number of days that the well was operated during the year.

Table 1 - Summary of Withdrawals from PW 1

Well PW 1	# of Days Production	Total Annual Withdrawal (m ³)	Average Daily Withdrawal (m ³)	Maximum Daily Withdrawal (m ³) PTTW = 1,090(m ³)
2020	91	50,366.25	553.48	1,068.58
2021	132	65,204.44	493.97	1,087.90
2022	86	40,840.60	474.89	853.07
2023	177	48,180.55	272.21	757.82

Table 2 - Summary of Withdrawals from PW 2

Well PW 2	# of Days Production	Total Annual Withdrawal (m ³)	Average Daily Withdrawal (m ³)	Maximum Daily Withdrawal (m ³) PTTW = 817.2 (m ³)
2020	158	39,989.40	253.10	621.23
2021	166	34,541.14	208.08	642.01
2022	144	34,582.34	240.16	681.98
2023	158	36,407.91	230.43	665.24

Table 3 - Summary of Combined Withdrawals from PW1 and PW 2

Year	Well PW 1 Annual Withdrawal (m ³)	Well PW 2 Annual Withdrawal (m ³)	Combined 24 Hr Max Withdrawal (m ³)*	Combined Annual Withdrawal (m ³)
2020	50,366.25	39,989.40	1,582.0	90,355.65
2021	65,204.44	34,541.14	1,573.9	99,745.58
2022	40,840.60	34,582.34	1,393.0	75,422.94
2023	48,180.55	36,407.91	1,264.7	84,588.46

* on one individual day each year

The typical irrigation season spans from May to October. From 2020 to 2023, PW 1 was in operation an average of 103 days per year and PW 2 an average of 156 days per year, over this four year period. During 2023, 177 days of operation were recorded at PW 1 and 158 days at PW 2.

It is noted that PW 1 was out of service for 64 days during the 2020 irrigation season for pump service.

WATER LEVELS

Hourly water levels are recorded using a Solinst Levellogger that is installed in the Old Well, 9.85m south of PW2. The data has been barometrically compensated to remove the barometric pressure fluctuations from the submerged Levellogger recordings with hourly recordings from the on-site Barologger.

Water levels in the Old Well appear to have approximately one meter of interference from the operation of PW2. The water level response at the Old Well from production at PW1, some 620 metres away, appears to be marginal.

The water level trends have a “saw-tooth” pattern during times of non-production. It is presumed that this water level variation of approximately 0.15 to 0.2 m is from the usage of the nearby Town of Midland Municipal Wells.

In general, for the past four years of data that were processed, the water levels at the Old Well maintained around the 194.2mASL range during irrigation events, with a static water level elevation in the 195.2mASL range.

Both PW1 and PW2 were operated within the conditions of PTTW 4740-AXZGGA, Water levels in the Old Well, were recorded hourly and appeared to be similar to that of previous years. Daily volumes pumped were logged and recorded. No interference complaints or negative impacts were logged.

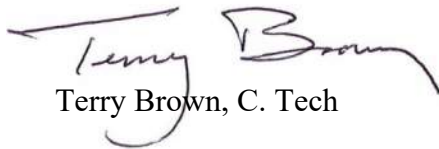
Conclusions and Recommendations

- Midland Golf and Country Club water use for irrigation was within the permitted withdrawals.
- It is suggested that a weekly non-pumping and pumping water levels be measured and recorded at PW 1. This would assist in tracking the well performance, water level and potential deterioration of the well.

- Hourly water level monitoring is completed automatically in an old production well (Old Well 2) about 10 metres from PW2. These data indicated about 1 meter of interference from the pumping of PW2.
- Measurable water level fluctuations is thought to be from the Midland Town Wells. This fluctuation is negligible in the order of 0.15 to 0.2m.
- No adverse effects of the withdrawals have been reported.

Please do not hesitate to contact us if you have any questions or concerns.

Yours truly,
International Water Consultants Ltd.



Terry Brown, C. Tech

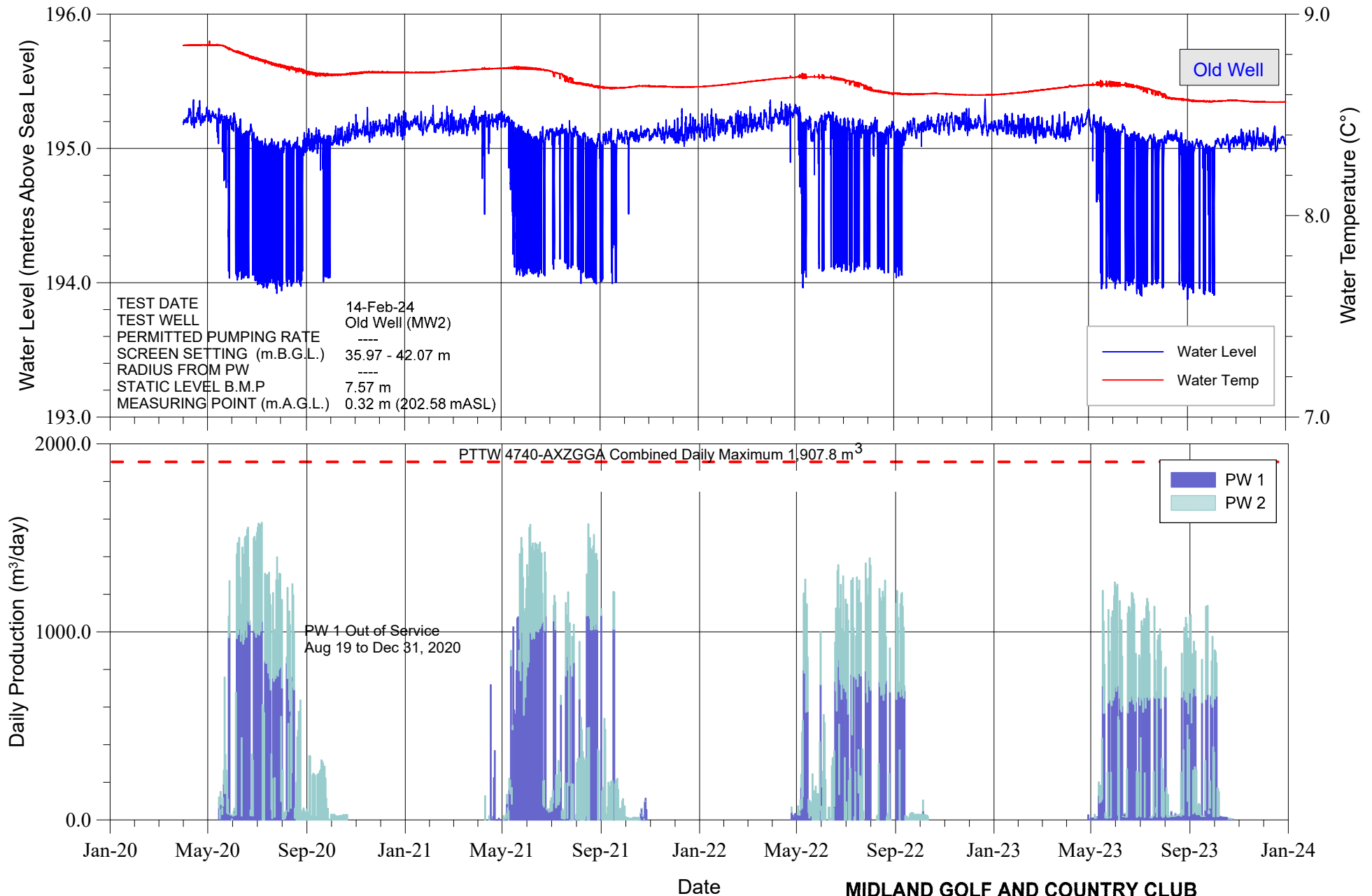
DRAWINGS



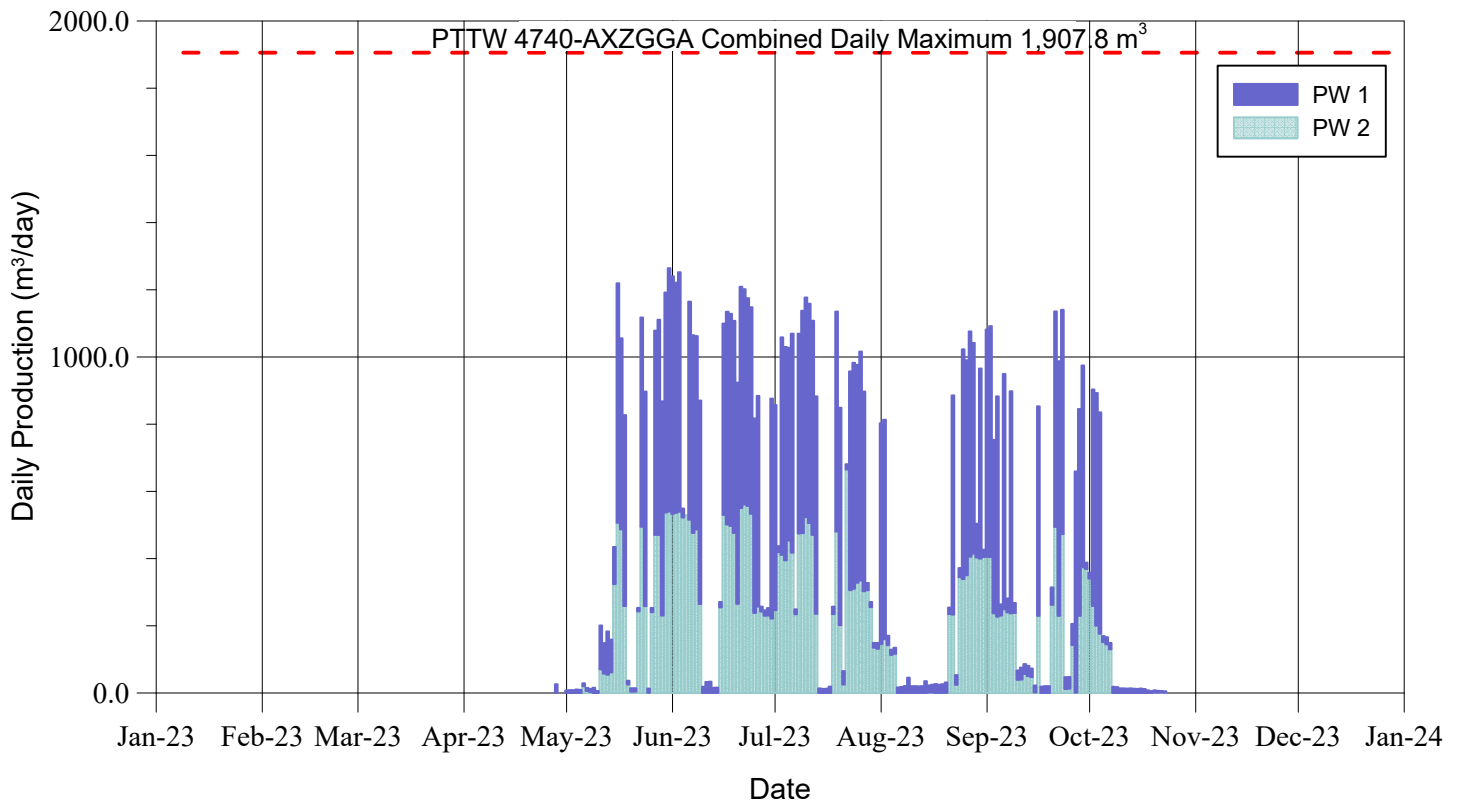
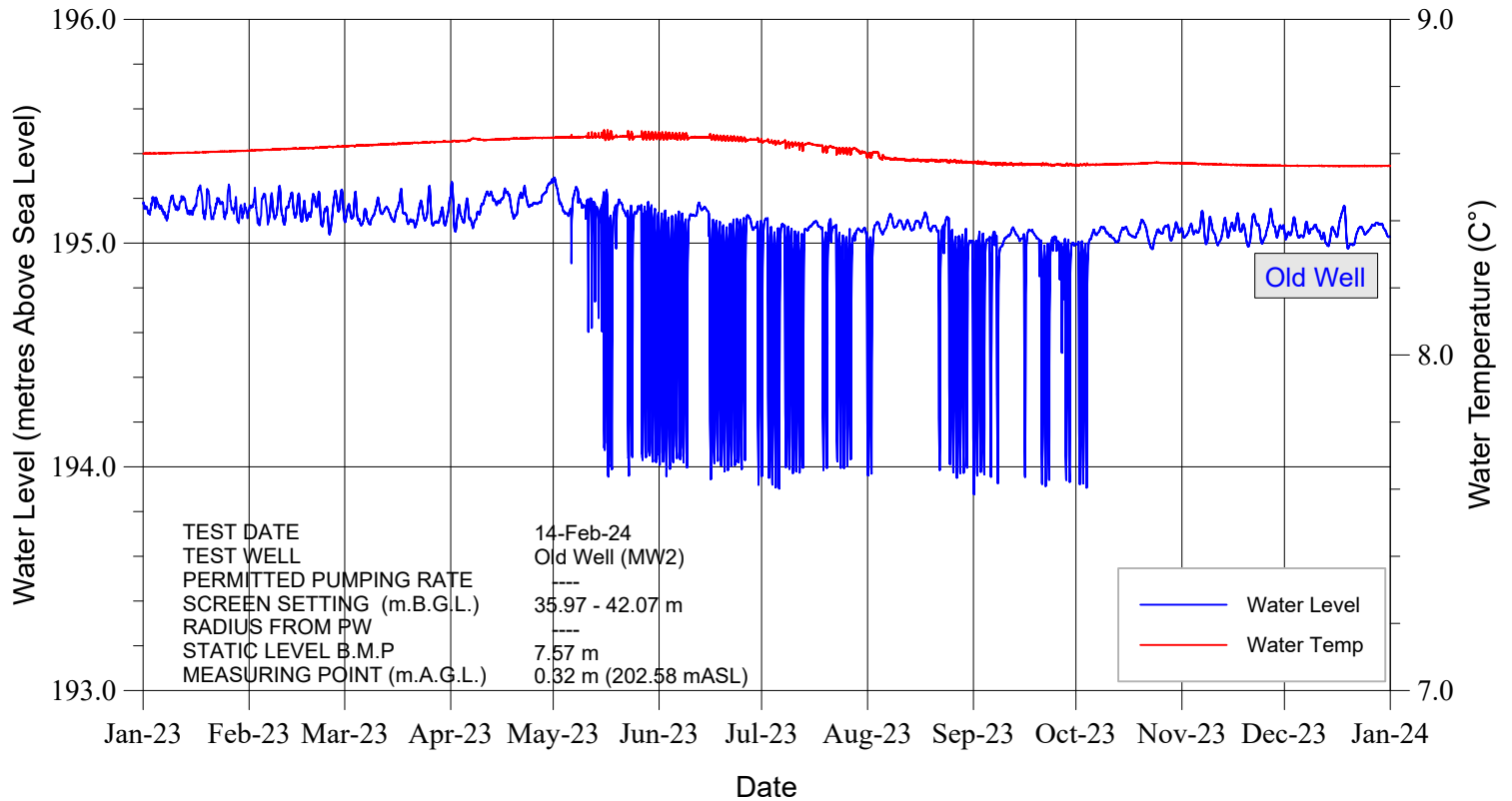
INTERNATIONAL WATER CONSULTANTS LTD.



International Water Consultants Ltd.



**MIDLAND GOLF AND COUNTRY CLUB
"OLD WELL" WATER LEVEL HYDROGRAPH WITH
PW 1 and PW2 2020-2023 COMBINED DAILY PRODUCTION
Dwg. No. A24038**



APPENDIX



INTERNATIONAL WATER CONSULTANTS LTD.

**Ministry of the Environment and
Climate Change**

Central Region
Technical Support Section
Water Resources
8th Floor
5775 Yonge St
Toronto ON M2M 4J1
Fax: (416) 325-6347
Tel: (416) 326-3766

**Ministère de l'Environnement et de
l'Action en matière de changement
climatique**

Direction régionale du Centre
Secteur du Soutien Technique
Ressource en eau
8e étage
5775 rue Yonge
Toronto ON M2M 4J1
Télécopieur: (416) 325-6347
Tél: (416) 326-3766



April 27, 2018

Midland Golf & Country Club Limited
Post Office Box 98
Midland, Ontario, L4R 4K6
Canada

ATTN: Ian Kirkpatrick

RE: Permit To Take Water, Irrigation, Midland Golf & Country Club
Lot: 109 & 110, Concession: 1, WPR
Midland, County of Simcoe

Lot 109 and 110
Midland, County Of Simcoe
Reference Number 6620-AVXJ9G

Dear Mr. Kirkpatrick,

Please find attached **Permit to Take Water No. 4740-AXZGGA** issued to **Midland Golf & Country Club Limited**, which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, dated February 5, 2018 and signed by Ian Kirkpatrick.

The Permit is valid until **April 30, 2028** and shall be kept available on site for inspection by Ontario Ministry of the Environment and Climate Change staff. This Permit cancels and replaces Permit Number 3066-96FJTE, issued on April 19, 2013.

Please note, Ontario Regulation 387/04 "Water Taking" requires all water takers to report daily water taking amounts to the Water Taking Reporting System (WTRS) electronic database: <https://www.lrcsde.lrc.gov.on.ca/wtrs/>. Daily water taking must be reported on a calendar year basis. If no water is taken, then a "no taking" report must be entered. Please consult the Regulation and Section 4 of this Permit for monitoring requirements.

If you have questions about reporting requirements, please call the WTRS Help Desk at 416-235-6322 (toll free: 1-877-344-2011) or by email, WTRSHelpdesk@ontario.ca. It is preferred that you submit your data directly and electronically to the WTRS. Where this is impracticable, please use the Water Taking Submission Form (included as Appendix C of the

Technical Bulletin: Permit To Take Water (PTTW) - Monitoring and Reporting of Water Takings), which can be downloaded from the above web site, and fax your completed forms to 416-235-6549 or mail them to: Water User Reporting Section, 125 Resources Rd. Toronto, ON M9P 3V6.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on **Midland Golf & Country Club Limited**. The terms and conditions have been designed to allow for the development of water resources, while providing reasonable protection to the surrounding natural environment, existing water uses and users.

One of the purposes of the issuance of a Permit is to ensure that the permitted taking(s) will not cause negative impacts to the surrounding natural environment or other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the Permit Holder, **Midland Golf & Country Club Limited** will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of the Environment and Climate Change or to reduce the rate and amount of taking until any negative impacts are eliminated.

Any change of address or ownership of the property for which this Permit is issued must be reported immediately to the Director. The issuance of this Permit to Take Water does not relieve you from compliance with the legislative requirements of this Ministry or any other agencies.

It is the responsibility of **Midland Golf & Country Club Limited** to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,



Cynthia Doughty
Supervisor (Acting)
Central Region

File Storage Number: SI-SI-TI-C1-220
GAM/

CC (electronic copy):
J.Garry Bryant, P.Geo., Bryant Groundwater Consulting (bryantgwconsult@rogers.com)

PERMIT TO TAKE WATER

Ground Water

NUMBER 4740-AXZGGA

Pursuant to Section 34.1 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

Midland Golf & Country Club Limited
Post Office Box 98
Midland, Ontario, L4R 4K6
Canada

For the water taking from: PW1/MGCC1 (WWR 5704502); and PW2/MGCC2 (WWR 5704503)

Located at: Lot 109 & 110, Concession 1, WPR, Geographic Township of Tiny
Midland, County of Simcoe

Lot 110, Concession 1, Geographic Township of Tiny
Midland, County Of Simcoe

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

- (a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34.1, OWRA.
- (b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.
- (c) "Ministry" means Ontario Ministry of the Environment and Climate Change.
- (d) "District Office" means the Barrie District Office.
- (e) "Permit" means this Permit to Take Water No. 4740-AXZGGA including its Schedules, if any, issued in accordance with Section 34.1 of the OWRA.
- (f) "Permit Holder" means Midland Golf & Country Club Limited.
- (g) "OWRA " means the *Ontario Water Resources Act*, R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

- 1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated February 5, 2018 and signed by Ian Kirkpatrick, and all Schedules included in this Permit.
- 1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.
- 1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.
- 1.4 This Permit is not transferable to another person.
- 1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.
- 1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.
- 1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act*, R.S.O. 1990, the *Pesticides Act*, R.S.O. 1990, or the *Safe Drinking Water Act*, S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

- (a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act*, and the *Environmental Protection Act*, and any regulations made thereunder; or
- (b) limit in any way any authority of the Ministry, a Director, or a Provincial Officer, including the authority to require certain steps be taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

- (a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or
- (b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. Water Takings Authorized by This Permit

3.1 Expiry

This Permit expires on **April 30, 2028**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1	PW1/MGCC1 (WWR 5704502)	Well Drilled	Golf Course Irrigation	Commercial	1,514	12	1,090,195	180	17 585321 4955069
2	PW2/MGCC2 (WWR 5704503)	Well Drilled	Golf Course Irrigation	Commercial	1,135	12	817,646	180	17 584914 4955595
						Total Taking:	1,907,841		

4. Monitoring

- 4.1 Under section 9 of O. Reg. 387/04, and as authorized by subsection 34(6) of the *Ontario Water Resources Act*, the Permit Holder shall, on each day water is taken under the authorization of this Permit, record the date, the volume of water taken on that date and the rate at which it was taken. The daily volume of water taken shall be measured by a flow meter. A separate record shall be maintained for each source. The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking and shall produce the records immediately for inspection by a Provincial Officer upon his or her request. The Permit Holder, unless otherwise required by the Director, shall submit, on or before March 31st in every year, the records required by this condition to the Ministry's Water Taking Reporting System.
- 4.2 The Permit Holder shall maintain a continuous water level recorder in PW2/MGCC2 or another monitoring well of comparable depth in this area. Water levels shall be monitored and recorded at least hourly, between April 1 and November 15. The Permit Holder shall keep all records required by this condition current and available at or near the site of the taking. Records shall be made available to Ministry staff at any time upon request.
- 4.3 Any application for an amendment or a renewal of this Permit shall be accompanied by a report prepared by a Qualified Person (P. Geo. or equivalent). The report shall include, but not necessarily be limited to, the following: (1) the information generated by the conditions of this Permit; (2) an analysis and assessment of the information collected; (3) an evaluation of the adequacy of the monitoring program; and (4) any recommendations concerning changes to the conditions of the Permit.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Groundwater Takings

If the taking of water is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to initial issuance of a Permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected, a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable costs of doing so.

If permanent interference is caused by the water taking, the Permit Holder shall restore the water supplies of those permanently affected.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act*, Section 100 (4).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.
2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.

3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

*In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Environmental Commissioner, **Environmental Bill of Rights**, R.S.O. 1993, Chapter 28, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

- a. The name of the appellant;
- b. The address of the appellant;
- c. The Permit to Take Water number;
- d. The date of the Permit to Take Water;
- e. The name of the Director;
- f. The municipality within which the works are located;

This notice must be served upon:

*The Secretary
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto ON
M5G 1E5
Fax: (416) 326-5370
Email:
ERTTribmalsecretary@ontario.ca*

AND

*The Environmental Commissioner
1075 Bay Street
6th Floor, Suite 605
Toronto, Ontario M5S 2W5*

AND

*The Director, Section 34.1,
Ministry of the Environment and
Climate Change
8th Floor
5775 Yonge St
Toronto ON M2M 4J1
Fax: (416) 325-6347*

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by Telephone at

(416) 212-6349

Toll Free 1(866) 448-2248

by Fax at

(416) 326-5370

Toll Free 1(844) 213-3474

by e-mail at

www.ert.gov.on.ca

*This instrument is subject to Section 38 of the **Environmental Bill of Rights** that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

This Permit cancels and replaces Permit Number 3066-96FJTE, issued on 2013/04/19.

Dated at Toronto this 27th day of April, 2018.



Cynthia Doughty

Director, Section 34.1

Ontario Water Resources Act, R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 4740-AXZGGA, dated April 27, 2018.

1. Application for Permit To Take Water dated February 5, 2018 and signed by Ian Kirkpatrick of Midland Golf & Country Club Limited.
2. Report entitled "*Report on Midland Golf & Country Club, 2013-2017 Water Takings and Water Level Monitoring*". Prepared by Bryant Groundwater Consulting, signed by J. Garry Bryant, P.Geo., dated February 5, 2018

Certificate of Analysis

Sample Receipt Date & Time:2023-03-20 15:54

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-03-20 15:56

Analysis Date & Time:



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Water Works Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Water Works Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration
HPC - Method AELAB02-HPC Performed by Spread Plate
pH - Method AELAB05-pH Performed by Electrometric Method
Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method
Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		Temp. of Sample (°C/°F)	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH	Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL			</>	µg/L
2023-03-20	15:10	Bar Sink - D				3070		0		0		0						

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen Sagar

Date Approved2023-03-21

Approved ByKN

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 150	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 150	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300	Indicates Deterioration: >500	Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Sample Receipt Date & Time:2023-04-06 15:27

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-04-06 15:30

Analysis Date & Time:



REPORT TO:	Drinking Water System Address:	Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration HPC - Method AELAB02-HPC Performed by Spread Plate pH - Method AELAB05-pH Performed by Electrometric Method Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method Microcystin - Method AELAB03-Microcystin Performed by ELISA Regulation: <table><tr><td></td><td>170/03</td><td>✓</td><td>319/08</td><td></td><td>Private</td></tr><tr><td></td><td>493/17</td><td></td><td>N/A</td><td></td><td></td></tr></table>		170/03	✓	319/08		Private		493/17		N/A		
	170/03		✓	319/08		Private								
	493/17			N/A										
Client: Midland Golf and Country Club	9536 Hwy. 93 N. Midland, ON. L4R 4K6													
Address: 9536 Hwy. 93 N. Midland, ON. L4R 4K6														
Contact: Stephen Sagar, Manager														
Email: stephensagar@rogers.com	Drinking Water System Number: 760003740													
Phone: 705-526-5822	Health Unit: SMDHU													
Fax: 705-528-7014	Comments:													
After Hours Contact:														

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2023-04-06	07:20	Bar Sink - D				3903		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen Sagar

Date Approved2023-04-11

Approved ByAF

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Sample Receipt Date & Time:2023-05-03 15:45

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-05-03 15:49

Analysis Date & Time:



REPORT TO:	Drinking Water System Address:	Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration HPC - Method AELAB02-HPC Performed by Spread Plate pH - Method AELAB05-pH Performed by Electrometric Method Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method Microcystin - Method AELAB03-Microcystin Performed by ELISA
Client: Midland Golf and Country Club	9536 Hwy. 93 N. Midland, ON. L4R 4K6	
Address: 9536 Hwy. 93 N. Midland, ON. L4R 4K6		
Contact: Stephen Sagar, Manager	Drinking Water System Number: 760003740	
Email: stephensagar@rogers.com	Health Unit: SMDHU	
Phone: 705-526-5822	Comments:	Regulation:
Fax: 705-528-7014		
After Hours Contact:		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2023-05-03	13:50	Bar Sink - D				5249		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen Sagar

Date Approved2023-05-04

Approved By

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Sample Receipt Date & Time:2023-05-31 15:47

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-05-31 15:50

Analysis Date & Time:



REPORT TO:	Drinking Water System Address:	Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration HPC - Method AELAB02-HPC Performed by Spread Plate pH - Method AELAB05-pH Performed by Electrometric Method Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method Microcystin - Method AELAB03-Microcystin Performed by ELISA												
Client: Midland Golf and Country Club	9536 Hwy. 93 N. Midland, ON. L4R 4K6													
Address: 9536 Hwy. 93 N. Midland, ON. L4R 4K6														
Contact: Stephen Sagar, Manager														
Email: stephensagar@rogers.com	Drinking Water System Number: 760003740	Regulation: <table><tr><td></td><td>170/03</td><td>✓</td><td>319/08</td><td></td><td>Private</td></tr><tr><td></td><td>493/17</td><td></td><td>N/A</td><td></td><td></td></tr></table>		170/03	✓	319/08		Private		493/17		N/A		
	170/03		✓	319/08		Private								
	493/17			N/A										
Phone: 705-526-5822	Health Unit: SMDHU													
Fax: 705-528-7014	Comments:													
After Hours Contact:														

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2023-05-31	15:00	Bar Sink - D				6674		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:_____

Date Approved2023-06-01

Approved ByKN

Sample Relinquishment:_____

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Sample Receipt Date & Time:2023-07-24 14:40

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-07-24 14:43

Analysis Date & Time:



REPORT TO:	Drinking Water System Address:	Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration HPC - Method AELAB02-HPC Performed by Spread Plate pH - Method AELAB05-pH Performed by Electrometric Method Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method Microcystin - Method AELAB03-Microcystin Performed by ELISA																		
Client: Midland Golf and Country Club	9536 Hwy. 93 N. Midland, ON. L4R 4K6																			
Address: 9536 Hwy. 93 N. Midland, ON. L4R 4K6																				
Contact: Stephen Sagar, Manager																				
Email: stephensagar@rogers.com	Drinking Water System Number: 760003740																			
Phone: 705-526-5822	Health Unit: SMDHU	Regulation: <table><tr><td></td><td>170/03</td><td>✓</td><td>319/08</td><td></td><td>Private</td></tr><tr><td>Fax: 705-528-7014</td><td colspan="5"></td></tr><tr><td>After Hours Contact:</td><td></td><td>493/17</td><td></td><td>N/A</td><td></td></tr></table>		170/03	✓	319/08		Private	Fax: 705-528-7014						After Hours Contact:		493/17		N/A	
	170/03		✓	319/08		Private														
Fax: 705-528-7014																				
After Hours Contact:		493/17		N/A																
Comments:																				

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2023-07-24	07:05	Bar Sink - D				9565		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen Sagar

Date Approved2023-07-25

Approved By

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Sample Receipt Date & Time:2023-10-13 14:22

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2023-10-13 14:56

Analysis Date & Time:



REPORT TO:	Drinking Water System Address:	Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration HPC - Method AELAB02-HPC Performed by Spread Plate pH - Method AELAB05-pH Performed by Electrometric Method Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method Microcystin - Method AELAB03-Microcystin Performed by ELISA												
Client: Midland Golf and Country Club	9536 Hwy. 93 N. Midland, ON. L4R 4K6													
Address: 9536 Hwy. 93 N. Midland, ON. L4R 4K6														
Contact: Stephen Sagar, Manager														
Email: stephensagar@rogers.com	Drinking Water System Number: 760003740													
Phone: 705-526-5822	Health Unit: SMDHU	Regulation: <table><tr><td></td><td>170/03</td><td>✓</td><td>319/08</td><td></td><td>Private</td></tr><tr><td></td><td>493/17</td><td></td><td>N/A</td><td></td><td></td></tr></table>		170/03	✓	319/08		Private		493/17		N/A		
	170/03		✓	319/08		Private								
	493/17		N/A											
Fax: 705-528-7014	Comments:													
After Hours Contact:														

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2023-10-13	13:30	Bar Sink - D				14383		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
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Sample Collection:Stephen Saga

Date Approved2023-10-16

Approved By

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Certificate of Analysis

Sample Receipt Date & Time:2024-03-15 14:45

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2024-03-15 14:48

Analysis Date & Time:



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Drinking Water System Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Drinking Water System Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration
HPC - Method AELAB02-HPC Performed by Spread Plate
pH - Method AELAB05-pH Performed by Electrometric Method
Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method
Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2024-03-15	14:00	Bar Sink - D				3608		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
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Sample Collection: Stephen

Date Approved2024-03-18

Approved ByAF

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Certificate of Analysis

Sample Receipt Date & Time:2024-07-02 14:51

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2024-07-02 15:48

Analysis Date & Time:



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Drinking Water System Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Drinking Water System Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration
HPC - Method AELAB02-HPC Performed by Spread Plate
pH - Method AELAB05-pH Performed by Electrometric Method
Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method
Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2024-07-02	14:11	Bar Sink - D				10081		0		0		3							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection: Stephen Sagar

Date Approved2024-07-03

Approved By

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Certificate of Analysis

Sample Receipt Date & Time:2024-07-22 10:45

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2024-07-22 12:21

Analysis Date & Time:



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Drinking Water System Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Drinking Water System Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration
HPC - Method AELAB02-HPC Performed by Spread Plate
pH - Method AELAB05-pH Performed by Electrometric Method
Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method
Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2024-07-22	10:07	Bar Sink - D				11281		0		0		11							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen Sagar

Date Approved2024-07-23

Approved By

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Certificate of Analysis



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

Sample Receipt Date & Time:2024-09-05 14:54

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2024-09-05 15:07

Analysis Date & Time:

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Drinking Water System Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Drinking Water System Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration

HPC - Method AELAB02-HPC Performed by Spread Plate

pH - Method AELAB05-pH Performed by Electrometric Method

Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method

Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2024-09-05	14:00	Bar Sink - D				14650		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection: Stephen Sagar

Date Approved2024-09-06

Approved ByAF

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

Certificate of Analysis

Sample Receipt Date & Time:2024-10-02 10:52

Total Number of Samples Received:1

Bacterial Analysis Start Date & Time:2024-10-02 12:36

Analysis Date & Time:



Aquatic & Environmental
Laboratory Inc.

3239 Penetanguishene Rd.
Barrie, ON. L4M 4Y8
Telephone: 705-722-5227
Fax: 705-722-5224
Email: aquaenvirolab@gmail.com

REPORT TO:

Client: Midland Golf and Country Club

Address: 9536 Hwy. 93 N.
Midland, ON. L4R 4K6

Contact: Stephen Sagar, Manager

Email: stephensagar@rogers.com

Phone: 705-526-5822

Fax: 705-528-7014

After Hours Contact:

Drinking Water System Address:

9536 Hwy. 93 N. Midland, ON. L4R 4K6

Drinking Water System Number: 760003740

Health Unit: SMDHU

Comments:

Total Coliform, E.coli, Background - Method AELAB01-DC Performed by Membrane Filtration
HPC - Method AELAB02-HPC Performed by Spread Plate
pH - Method AELAB05-pH Performed by Electrometric Method
Turbidity - Method AELAB04-Turbidity Performed by Nephelometric Method
Microcystin - Method AELAB03-Microcystin Performed by ELISA

Regulation:	170/03	✓	319/08		Private
	493/17		N/A		

Date and Time Sampled		Sample ID, Location and Type: R = Raw; T = Entry/Treated; D = Distribution; RWC = Raw Water Consumed; REC = Recreational Swimming	Chlorine mg/L		UV System	Laboratory Number	Total Coliform		E.coli		Background		HPC		pH		Turbidity NTU	Microcystin	
			Free	Total			</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/100 mL	</>	CFU/1 mL	Temp. (°C)	pH Unit		</>	µg/L
2024-10-02	10:20	Bar Sink - D				16280		0		0		0							

Results relate only to the items tested. Results apply to sample as received. CFU = Colony Forming Units HPM = Heavy Particulate Matter
Report not to be reproduced, except in full, without written approval of Aquatic and Environmental Laboratory Inc.

Sample Collection:Stephen

Date Approved2024-10-03

Approved ByKN

Sample Relinquishment:

Total Coliform	Detection Limit: 0 - 200	Reportable Limit: 1	Microcystin	Detection Limit: 0.150 µg/L	Reportable Limit: ≥ 1.50 µg/L
E.coli	Detection Limit: 0 - 200	Reportable Limit: 1	pH	Detection Limit: 4 - 10	
HPC	Detection Limit: 300		Turbidity	Detection Limit: 0.10 - 40.0 NTU	

A. Design Calculations:

1. Fixtures:

Based on the architectural plans the proposed clubhouse will be equipped with fixtures as noted below.

2. Proposed Loading:

<u>Fixture</u>	<u>Hydraulic Loading</u>	<u>Quantity</u>	<u>Total Fixture Units</u>
i) lower level			
-bar sink	1.0	1.0	1.0
-dishwasher	1.4	1.0	1.4
-kitchen sink	1.4	2.0	2.8
-bathroom group (6LPF)	3.6	7.0	25.2
-shower head, 9.5 lpm per head	1.4	2.0	2.8
			33.2
ii) main level			
-bar sink	1.0	1.0	1.0
-dishwasher	1.4	1.0	1.4
-kitchen sink	1.4	2.0	2.8
-bathroom group (6LPF)	3.6	2.0	7.2
			12.4
		Total	45.6

Note: Per Ontario Building Code (OBC, 2012) Appendix A, Volume 2. Table 7.6.3.2.A, Sizing of Water Distribution Systems - Private Use

B. Existing System

-Existing 25mmØ service lateral connected to 25mmØ watermain.

-Existing water system pressure is approximately 310kPa (assumed).

C. Proposed Service

System Pressure Range	200-310 kPa
Length	305.0 m
Diameter	50.0 mm
Maximum Fixture Units Served	51.0

Based on the proposed 45.6 fixture units noted in Section A above, the proposed 345m - 50mmØ water service will supply the proposed clubhouse.

Note:

1. Per Ontario Building Code (OBC, 2012) Appendix A, Volume 2. Table 7.6.3.1, Pipe size based on number of fixture units served.

2. The existing water system pressure will be confirmed by the contractor at the time of construction and the service size adjusted as required.

Table 7.6.3.2.A.
Sizing of Water Distribution Systems⁽¹⁾⁽²⁾
Forming Part of Sentences 7.6.3.2.(1) to (3) and 7.6.3.4.(2), (3) and (5)

Fixture or Device	Minimum Size of Supply Pipe, in.	Private Use Hydraulic Load, fixture units			Public Use Hydraulic Load, fixture units		
		Cold	Hot	Total	Cold	Hot	Total
Bathroom group with 6 LPF flush tank ⁽³⁾	N/A	2.7	1.5	3.6	-	-	-
Bathroom group with greater than 6 LPF flush tank ⁽³⁾	N/A	4	3	6	-	-	-
Bathroom group with more than 3 fixtures	-	-	-	⁽⁴⁾	-	-	-
Bathtub with or without shower head	1/2	1	1	1.4	3	3	4
Bathtub with 3/4 in. spout	3/4	7.5	7.5	10	7.5	7.5	10
Bedpan washer	1	-	-	-	7.5	7.5	10
Bidet	3/8	1.5	1.5	2	-	-	-
Clothes washer, 3.5 kg	1/2	1	1	1.4	2.25	2.25	3
Clothes washer, 6.8 kg	1/2	-	-	-	3	3	4
Clothes washer, commercial ⁽⁵⁾	-	-	-	-	-	-	-
Dental lavatory	3/8	-	-	-	1.5	1.5	2
Dental unit, cuspidor	3/8	-	-	-	1	-	1
Dishwasher, commercial ⁽⁵⁾	-	-	-	-	-	-	-
Dishwasher, domestic	3/8	-	1.4	1.4	-	-	-
Drinking fountain or water cooler	3/8	-	-	-	0.25	-	0.25
Hose bibb	1/2	2.5	-	2.5	2.5	-	2.5
Hose bibb	3/4	3	-	3	6	-	6
Hose bibb, combination hot and cold	1/2	1.9	1.9	2.5	1.9	1.9	2.5
Lavatory, 8.3 L/min or less (<i>Bathroom Sink</i>)	3/8	0.5	0.5	0.7	1.5	1.5	2
Lavatory, greater than 8.3 L/min	3/8	0.75	0.75	1	1.5	1.5	2
Shower head, 9.5 L/min or less per head	1/2	1	1	1.4	3	3	4
Shower head, greater than 9.5 L/min per head	1/2	1.5	1.5	2	3	3	4
Shower, spray, multi-head, fixture unit per head	⁽⁵⁾	1	1	1.4	3	3	4
Sink, bar	3/8	0.75	0.75	1	1.5	1.5	2
Sink, clinic service faucet	1/2	-	-	-	2.25	2.25	3
Sink, clinic service with direct flush valve	1	-	-	-	6	-	6
Sink, kitchen, commercial, per faucet	1/2	-	-	-	3	3	4
Sink, kitchen, domestic, 8.3 L/min or less	3/8	1	1	1.4	1	1	1.4
Sink, kitchen, domestic, greater than 8.3 L/min	3/8	1.5	1.5	2	1.5	1.5	2
Sink, laboratory	3/8	-	-	-	1.5	1.5	2
Sink, laundry (1 or 2 compartments)	3/8	1	1	1.4	1	1	1.4
Sink, service or mop basin	1/2	-	-	-	2.25	2.25	3
Sink, washup, per faucet	1/2	-	-	-	1.5	1.5	2
Column 1	2	3	4	5	6	7	8

Table A-7.6.3.1.
Pipe Size Based on the Number of Fixtures Units Served⁽¹⁾

Water Service, inches	Water Distribution System, inches	Maximum Allowable Length, m														
		12	18	24	30	46	61	76	91	122	152	183	213	244	274	305
Pressure Range		Number of Fixture Units Served														
200 to 310 kPa (30 to 45 psi)																
¾"	½"	6	5	4	3	2	1	1	1	0	0	0	0	0	0	0
¾"	¾"	18	16	14	12	9	6	5	5	4	4	3	2	2	2	1
¾"	1"	29	25	23	21	17	15	13	12	10	9	7	6	6	6	6
1"	1"	36	31	27	25	20	17	15	13	12	10	8	6	6	6	6
1½"	1¼"	90	68	57	48	38	32	28	25	21	18	15	12	12	11	11
1½"	1½"	151	124	105	91	70	57	49	45	36	31	26	23	21	20	20
2"	1½"	151	151	132	110	80	64	53	46	38	32	27	23	21	20	20
2"	2"	359	329	292	265	217	185	164	147	124	96	70	61	57	54	51
2½"	2½"	445	418	390	370	330	300	280	265	240	220	198	175	158	143	133
311 to 413 kPa (46 to 60 psi)																
¾"	½"	8	7	6	5	4	3	2	2	1	1	1	0	0	0	0
¾"	¾"	21	21	19	17	14	11	9	8	6	5	4	4	3	3	3
1"	1"	42	42	41	36	30	25	23	20	18	15	12	10	9	8	8
1½"	1¼"	83	83	83	83	66	52	44	39	33	29	24	20	19	17	16
1½"	1½"	151	151	151	151	128	105	90	78	62	52	42	38	35	32	30
2"	1½"	151	151	151	151	150	117	98	84	67	55	42	38	35	32	30
2"	2"	359	359	359	359	359	318	280	250	205	165	142	123	110	102	94
2½"	2½"	611	611	610	580	535	500	470	440	400	365	335	315	285	267	250
Over 413 kPa (60 psi)																
¾"	½"	8	8	7	6	5	4	3	3	2	1	1	1	1	1	0
¾"	¾"	21	21	21	21	17	13	11	10	8	7	6	6	5	4	4
1"	1"	42	42	42	42	38	32	29	26	22	18	14	13	12	12	11
1½"	1¼"	83	83	83	83	83	74	62	54	43	34	26	25	23	22	21
1½"	1½"	151	151	151	151	151	151	130	113	88	73	51	51	46	43	40
2"	1½"	151	151	151	151	151	151	142	122	98	82	64	51	46	43	40
2"	2"	359	359	359	359	359	359	359	340	288	245	204	172	153	141	129
2½"	2½"	611	611	611	611	611	611	610	570	510	460	430	404	380	356	329
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Notes to Table A-7.6.3.1.:

- (1) Where total fixture unit values exceed those given in this Table, the system must be designed according to a detailed engineering design method.

Simcoe County District Health Unit

SEWAGE SYSTEM INSPECTION FORM

July 18/73

DATE

Tiny Twp.

MUNICIPALITY

109-
LOT s 110 CON. 1 O.S. PLAN LOT BUILDING: Club House

OWNER: Midland Golf & Country Club Ltd., NO. OF BEDROOMS: -

c/o Wm. A. Hack,

ADDRESS: 675 Yonge St.,
Midland, Ont.

FIXTURES: 3-piece bath

2-piece bath

Kitchen sink

Laundry tubs

Automatic laundry

Other Appendix "B"

CONTRACTOR: Mr. Bruce Tinney,

R.R.#1,

ADDRESS: Penetang, Ont.

LIQUID CAPACITY OF SEPTIC TANK: 5000 gal. CONSTRUCTION: Prefab ☒ Other

TOTAL FT. OF TILE BED: 1800 ft.

TYPE OF SOIL: sand

LEADER: 3" P.V.C.

HEADER: 3" P.V.C.

LATERALS: 3" P.V.C., 1-1½ ft. cover, crushed stone, good grades

WATER SUPPLY: Type of Well drilled Distance from bed 500' + Municipal

COMMENTS: Area bed. 4' centres.

ROUGH SKETCH SHOWING DESIGN AND LOCATION

LOCATION 2 W/C
3 SINK
4 SHOWERS WITH TOWER

See sketch on reverse side.

APPROVED

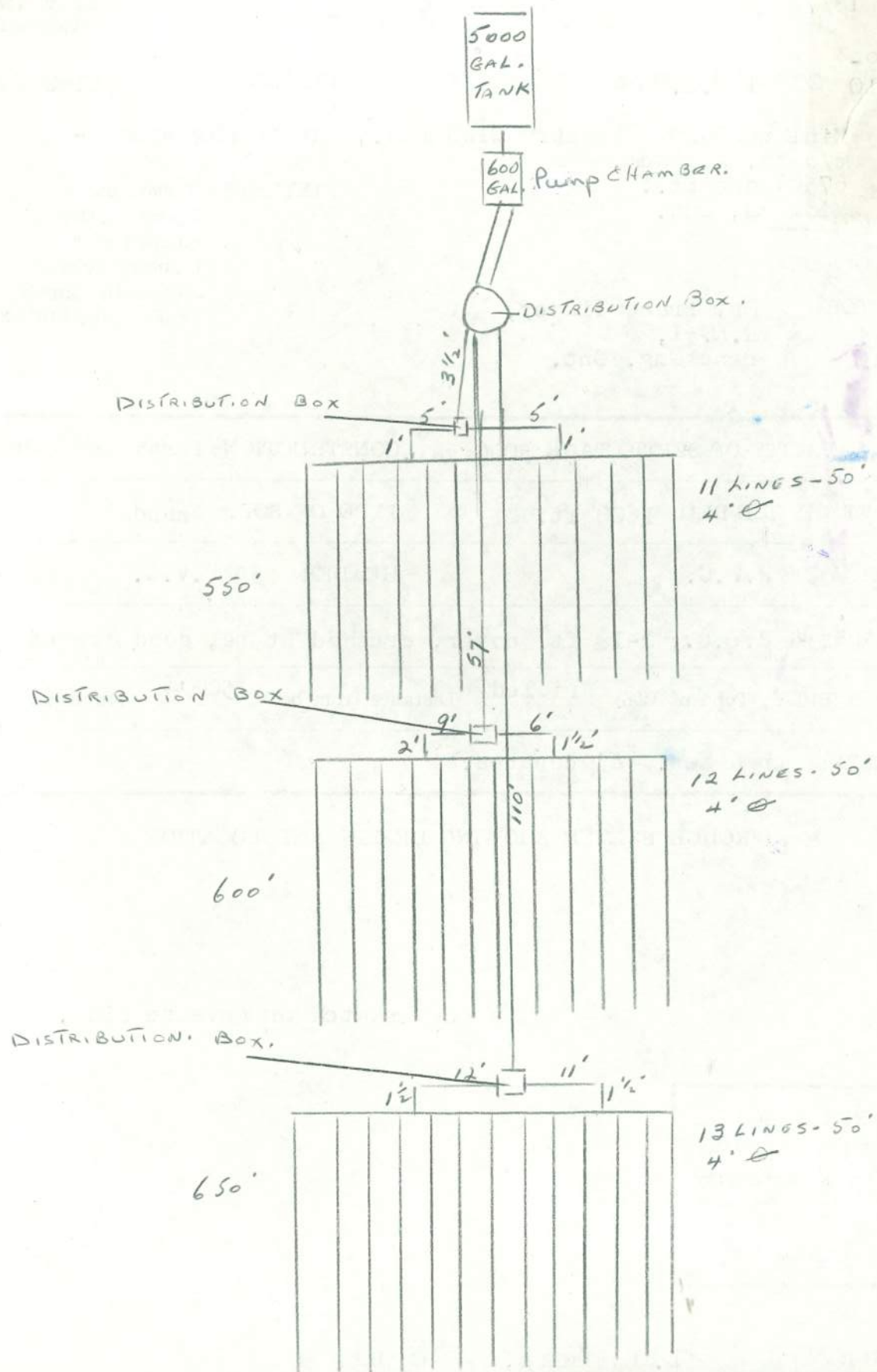
AT TIME OF INSPECTION

M.O.H. DR. N. ARMBRUST

Per

C.P.H.I.(C)

INSPECTOR L. G. Butts, C.P.H.I.(C)



572

Simcoe County District Health Unit

578 King Street,
Midland, Ont.
L4R-3M92

Midland Golf & Country Club,
225 King Street,
Midland, Ontario.

Dear Sirs:

Re: Proposed Sewage Disposal System

Your application for a sewage disposal system at Lot 108, & Con. 1 O.S. Tiny Twp. has been received. We consider the above-mentioned lot suitable for a sewage disposal system to serve a dwelling of 8000 +/- sq. ft. and - bedrooms. The sewage disposal system will consist of a concrete septic tank a minimum of - gallons, and - feet of weeping tile, laid in a minimum of 13 inches of crushed stone (approximately 6 inches under the tile and 3 inches over).

The tile bed is to be levelled, and will require a minimum - of granular fill, which will extend at least 10 feet beyond the laterals on all four sides. The fill is to be retained, and the amount of cover over the weeping tile is to be a maximum of 15 inches.

Note: Approval for locker room addition - approx. 38'8" x 24' x 20'
Existing sewage system satisfactory at present.
No increase in membership.

Before final approval can be issued, it will be necessary for the system to be inspected before covering, and at least 48 hours notice must be given to the above office.

Should the system be covered without inspection, it will be necessary to expose the entire system. Failure to comply may result in proceedings being taken under Section 14 of Schedule B of the Public Health Act.

This approval is valid for one year from date of issue.

Yours truly,

L. G. Butts per [Signature]

Date Nov. 7/74

Public Health Inspector

NOV 6 1974

SIMCOE COUNTY DISTRICT HEALTH UNIT
Building Addition
 APPLICATION FOR SEWAGE DISPOSAL SYSTEM

file #

572

Premises in Municipality of _____
 (town or Village) or Tiny (Township)

Twsp. Lot _____ Conc. _____ Sub-Lot _____ Reg. Plan _____

Directions to Lot: highway 27

OWNER: M. Hand Golf & Country Club Phone No. D.G. Haig ⁵²⁶⁻²²³² Chairman

ADDRESS: 226 King St (D.G. Haig)

Contractor: Bentonswell Phone No. _____

Address: Box 750 Barrie

Type of Bldg. Club No. of Bedrooms nil Max. No. Persons —

Water Supply well Size of Lot — Size of Bldg. 8000 + sq.ft.

No. of Fixtures: Water Closets 5 3-Comp. Sink 1 Bath Tubs nil

(in total) Kitchen Sinks 3 Wash Basins 7 Auto. Washer nil

new + existing Shower Stalls 6 Laundry Tubs nil Dishwasher nil

Garb. Grinder nil Urinals 4 Other Sanitary Sink 1

(specify)

Has this parcel been severed since 1970 No Year severed 19

Owner name under which parcel was severed —

I HEREBY CERTIFY THAT THE INFORMATION IN THIS APPLICATION IS COMPLETE AND CORRECT AND THAT, IF THIS PLAN IS DULY APPROVED, THE ENSUING INSTALLATION WILL BE IN ACCORDANCE WITH THE PLAN APPROVED BY THE MEDICAL OFFICER OF HEALTH, AND ANY MUNICIPAL BY-LAWS THAT ARE APPLICABLE.

Nov 5, 19 74
 Month Day Yr.

[Signature]
 Signature of Owner or Agent

WEIR CRIPPS PARTNERS
 ARCHITECTS

1216 YONGE STREET,
 TORONTO 7 E ONTARIO

NOTICE: Approval of plan expires in 12 months if installation not completed. Notification must be received by the Health Unit that the two 5 foot deep test holes have been dug and flagged in the proposed tile bed area in order to process this application.

over ...

PLAN TO BE DRAWN TO SCALE IN SPACE BELOW AND TO CONTAIN THE FOLLOWING INFORMATION:

1. Size of lot, buildings, septic tanks, tile beds, wells and other installations.
2. Length of tile runs and distances of tile beds from wells, boundaries, buildings, etc.

Blank space for drawing the plan to scale.

Office Use Only:

<u>Terrain:</u>	Flat _____	Less than 10% slope _____
	Gently undulating _____	More than 10% slope _____
<u>Soil:</u>	Soil Description -	<u>Surface Drainage:</u>
	0 _____	Good _____
	1 _____	Average _____
	2 _____	Poor _____
	3 _____	Water Table Depth - _____
	4 _____	
	5 _____	

Comments: *Spikes Room Addition*
No increase in membership.

Recommendations: *Existing S.S. sat at present*
Addition approx. 88'8" x 24' x 20'.

Date: _____ Inspector: _____

Simcoe County District Health Unit

FILE NO.

130 TI-85

APPLICATION FOR ADDITIONS AND RENOVATIONS

(Approval valid for one (1) year from date of issue)

NAME AND ADDRESS OF OWNER

MIDLAND GOLF & COUNTRY CLUB PHONE 526-5822
c/o WM. A. HACK - 675 YONGE ST^{LTD}
MIDLAND, ONT
PREMISES IN MUNICIPALITY OF TINY POSTAL CODE SIZE OF LOT X

TWSP. TINY

CONC. 1 O.S.

LOT 109-110 S.L.

R.P.

U.P. #

DATE REC'D Sept 17/84

DIRECTIONS TO LOT (HWY NO., SECONDARY RDS., SIGNS TO FOLLOW, ETC.)

HWY 93 NORTH BETWEEN MIDLAND & PENETANG

EXISTING SEWAGE SYSTEM

SEWAGE SYSTEM WAS INSTALLED IN 19 73 (YEAR); IN THE NAME OF MIDLAND GOLF & COUNTRY CLUB

WAS SEWAGE SYSTEM INSPECTED BY HEALTH UNIT YES ☒ NO ☐

EXISTING DWELLING HAS THE FOLLOWING:

No. OF	BED-ROOMS	KITCHEN SINK	AUTO-LAUNDRY	LAUNDRY TUBS	3 PC. BATH	2 PC. BATH	DISH-WASHER	GARBAGE GRINDER	TYPE OF WATER SUPPLY (IF WELL STATE DUG, DRILLED OR OTHER)
									DRILLED

THIS APPLICATION IS FOR THE FOLLOWING: A NEW BRO SHOP

WILL ANY ADDITIONAL PLUMBING BE INSTALLED

☐ YES

☒ NO

NO. OF ADDITIONAL BEDROOMS PROPOSED

DATE Sept 17/84

I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT

R. H. Miller SIGNATURE

PLOT PLAN USING SUITABLE SCALE SHOWING: EXISTING SEWAGE DISPOSAL SYSTEM, WATER SUPPLY, NEIGHBOURING WELLS, ALL EXISTING AND PROPOSED STRUCTURES AND DIMENSIONS; NORTH ARROW AND LOCATE ONE LOT LINE AND ONE ROAD.

WITHOUT SKETCH APPLICATION CANNOT BE PROCESSED

LOCATION

See Plan # 7415-1 by Wein, Cripps dated Aug 27/74

INSPECTOR'S REPORT

SITE INSPECTION MADE

☐ NO

☒ YES

DATE

Sept 17/84

Approved for Bro Shop. as per plot plan August 27/84

DATE

Sept 17/84

(recorded on U.P.)

J. B. Brith

C.P.H.I. (C)

OFFICE COPY

Simcoe County District Health Unit

FILE NO.

95-MI-4

USE PERMIT FOR CLASS 4,5,6 SEWAGE SYSTEMS

TWSP. Midland
CONC. 1 O.S. R.P.
LOT Pt. 110 S.L.
DATE SENT May 6, 1996

WORK AUTHORIZED BY THE CERTIFICATE OF APPROVAL HAS BEEN SATISFACTORILY COMPLETED AND INCLUDES:

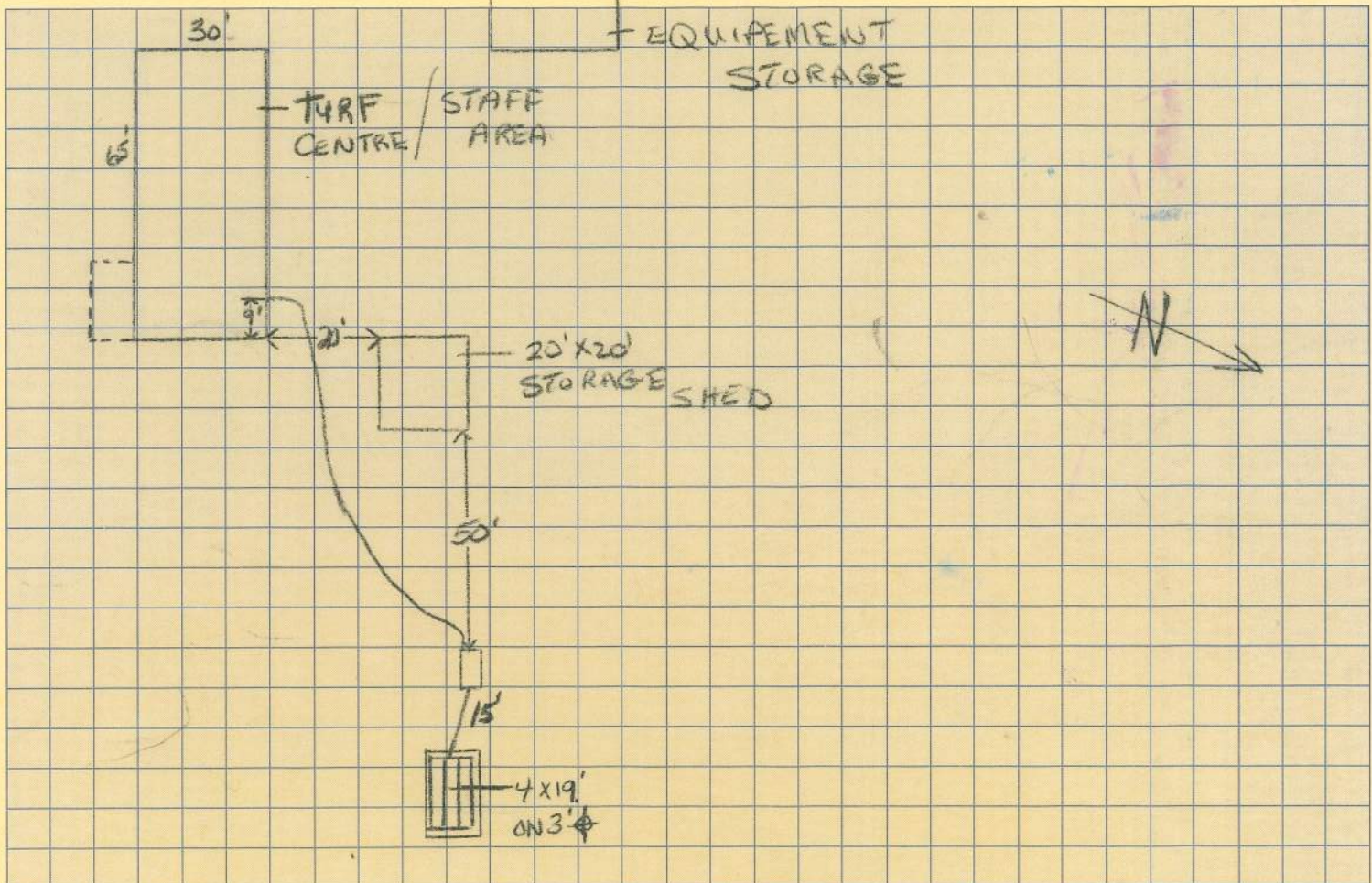
- a) Septic tank/holding tank of working capacity of Litres (800 Imp. Gals.) constructed of concrete ☒ fibreglass ☐ on site ☐ to serve (no. of bedrooms or units).
- b) Leaching bed of total Metres (76 Lineal Feet) of 3 inch diameter distribution pipe of PVC laid in 4 runs and fed by Gravity ☒ Siphon ☐ Pump ☐
- c) Other details 240 sq. ft. filter bed. Drilled well. Sewage system for Golf Course superintendent (Turf Care Centre).

d) INSPECTION DATE: April 25, 1996

INSTALLER: Tinney's Septic Service

System components installed as shown on application supporting Certificate of Approval ☐ or revised as below ☒

L
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A
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N



THE FOLLOWING WORK REMAINS TO BE COMPLETED.

- ☒ Backfill System and Complete ☒ Finish Grading to Shed Run-off and Divert Water Around Leaching Bed
- ☒ Stabilize all Sloped Surfaces ☒ Other Untreated paper/straw over stone

Any Use Permit issued hereunder may be revoked if this work is not completed promptly to health unit standards.

Under Section 67 of the Environmental Protection Act, 1980 and subject to the provisions of The Act and Regulations a Permit is hereby issued to (Owner): Subsequent Owner(s):

Midland Golf & Country Club

For the use and operation of the Class 4 sewage system constructed/installed/enlarged /extended/alterd pursuant to the Certificate of Approval issued under the above application number in accordance with the application and Certificate of Approval with any changes indicated above.

INSPECTED AND RECOMMENDED BY

PERMIT ISSUED BY

DATE

D. M. Parent, C.P.H.I.(C)

D. M. Parent

DIRECTOR

May 6, 1996 19

Section 64 of The Act provides that no change can be made to any building(s) or structure(s) in connection with which this sewage system is used, if the operation or effectiveness of the sewage system will or is likely to be affected by the change, unless a new Certificate of Approval is obtained.

OFFICE COPY

Simcoe County District Health Unit

FILE NO.

95-MI-4

USE PERMIT FOR CLASS 4,5,6 SEWAGE SYSTEMS

TWSP. **Midland**
CONC. **1 O.S.** R.P.
LOT **Pt. 110** S.L.
DATE SENT **May 6, 1996**

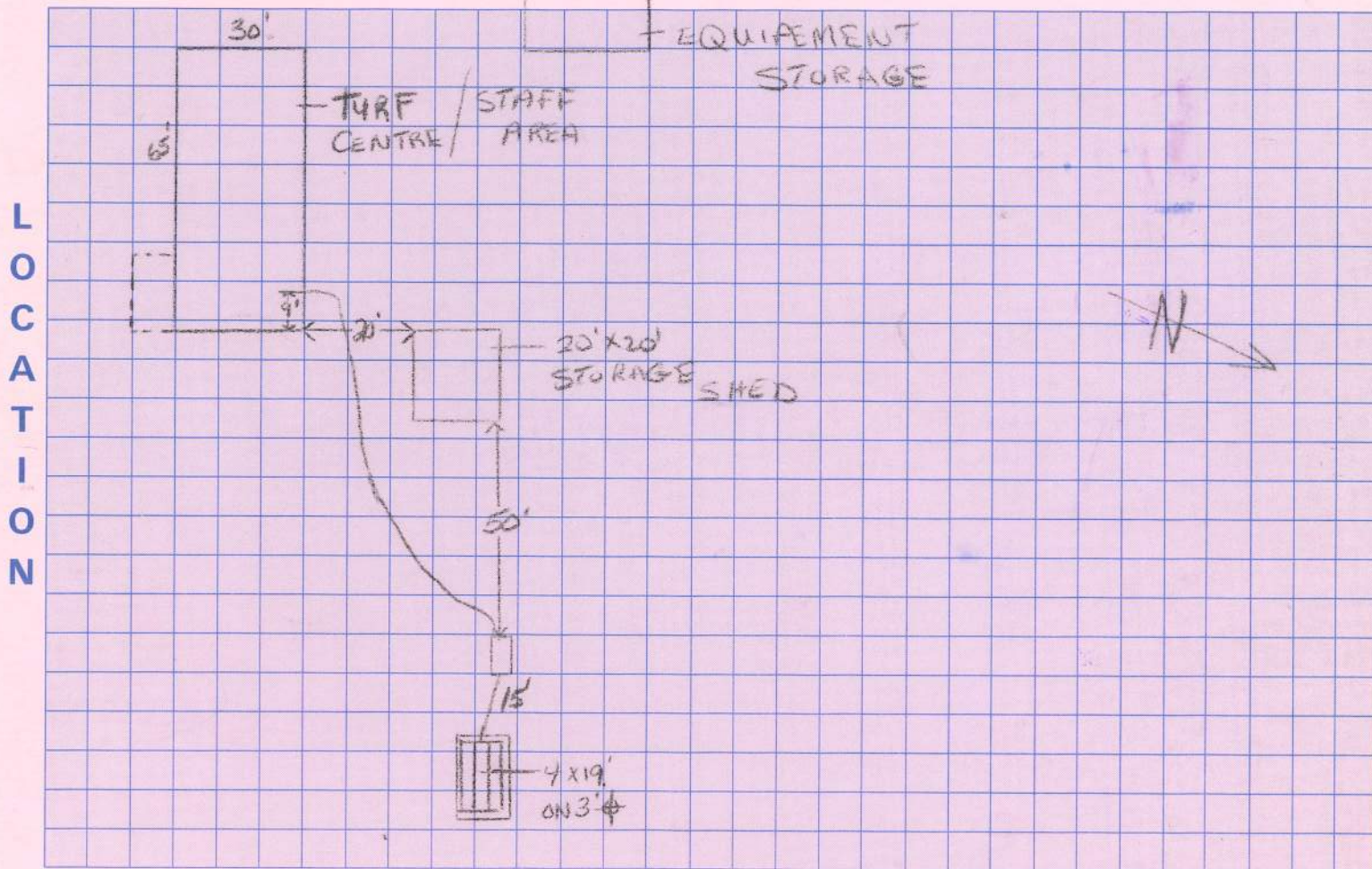
WORK AUTHORIZED BY THE CERTIFICATE OF APPROVAL HAS BEEN SATISFACTORILY COMPLETED AND INCLUDES:

- a) Septic tank/holding tank of working capacity of **800** Litres (**800** Imp. Gals.) constructed of concrete ☒ fibreglass ☐ on site ☐ to serve (no. of bedrooms or units).
- b) Leaching bed of total **76** Metres (**76** Lineal Feet) of **3** inch diameter distribution pipe of **PVC** laid in **4** runs and fed by Gravity ☒ Siphon ☐ Pump ☐
- c) Other details **240 sq. ft. filter bed. Drilled well. Sewage system for Golf Course superintendent (Turf Care Centre).**

d) INSPECTION DATE: **April 25, 1996**

INSTALLER: **Tinney's Septic Service**

System components installed as shown on application supporting Certificate of Approval ☐ or revised as below ☒



THE FOLLOWING WORK REMAINS TO BE COMPLETED.

- ☒ Backfill System and Complete ☒ Finish Grading to Shed Run-off and Divert Water Around Leaching Bed
- ☒ Stabilize all Sloped Surfaces ☒ Other **Untreated paper/straw over stone**

Any Use Permit issued hereunder may be revoked if this work is not completed promptly to health unit standards.

Under Section 67 of the Environmental Protection Act, 1980 and subject to the provisions of The Act and Regulations a Permit is hereby issued to (Owner):

Midland Golf & Country Club

For the use and operation of the Class **4** sewage system constructed/installed/enlarged /extended/alterd pursuant to the Certificate of Approval issued under the above application number in accordance with the application and Certificate of Approval with any changes indicated above.

INSPECTED AND RECOMMENDED BY

PERMIT ISSUED BY

DATE

D. M. Parent, C.P.H.I.(C)

D. M. Parent

DIRECTOR

May 6, 1996

Section 64 of The Act provides that no change can be made to any building(s) or structure(s) in connection with which this sewage system is used, if the operation or effectiveness of the sewage system will or is likely to be affected by the change, unless a new Certificate of Approval is obtained.

INSPECTOR'S COPY

**APPLICATION FORM
and CERTIFICATE OF APPROVAL
TO INSTALL A SEWAGE DISPOSAL SYSTEM**

FOR OFFICE USE ONLY

Twp MIDLAND

Con 10.5

Twp. Lot PL 4110

Plan

Sub. Lot

Date Rcvd:

Nov 14/95

Fee Rcpt. No:

83383

1 NAME and ADDRESS of REGISTERED OWNER

MIDLAND GOLF & COUNTRY
Club, Box 98, Midland
Ont.

POSTAL CODE

HOME PHONE

BUS. PHONE

2 OWNER'S AUTHORIZED AGENT

CHRIS CONOLAN

469 MANLY STREET

POSTAL CODE

HOME PHONE

BUS. PHONE

526-5597, 526-2898

3 This Application refers to a property located as follows:

TWP - NEW NAME

TWP - OLD NAME

CONCESSION

TWP. LOT NO.

REG. PLAN NO.

SUB. LOT NO.

MIDLAND

Twp

10.5

PL 4110

4 LOT DIMENSIONS:

250 Acres

and LOT AREA:

sq. ft.

5 DIRECTIONS to LOT:

Highway 93 TO MIDLAND GOLF COURSE

6 Is this project under the ONTARIO NEW HOME WARRANTY PROGRAM?

☐ Yes

☒ No.

The building to be serviced is a

☐ New or

☒ Existing

☐ Single Family Home or

☐ Unit Dwelling or

☐ Commercial or Industrial bldg.

TURF CARE CENTRE

☒ Without Basement or

☐ With Basement that is

☐ Finished or

☐ Unfinished.

The building has _____ sq. ft. per floor

and _____ # of floors (including basement). FLOOR PLANS MAY BE REQUIRED.

The Septic System to serve the building will be a

☐ Class 4 - Trench Bed or

☒ Class 4 - Filter Medium System or

☐ Class 5 - Holding Tank or

Class A - over 4500 Litres

7

BEDROOMS

WASHROOMS

LAUNDRY

KITCHEN SINKS

OTHER

STATE

N/A

2 Piece

3 Piece

4 Piece

Tubs

NO

1 Comp.

NO

Garborator

NO

NO. OF

1

Auto. Washer

NO

2 Comp.

NO

Dishwasher

NO

and "Roughed In" Plumbing for:

8 WATER SUPPLY is

☒ Existing or

☐ Proposed

and comes from the following:

☐ Municipal / Communal System or

☒ Drilled Well,

☐ Dug or Bored Well,

☐ Sandpoint,

☐ Other (describe)...

9 IT IS AN OFFENCE UNDER THE ENVIRONMENTAL PROTECTION ACT TO GIVE FALSE INFORMATION ON THIS APPLICATION

I CERTIFY THAT ALL INFORMATION GIVEN IS COMPLETE AND CORRECT
AND THAT IF APPROVED, THE WORK WILL CONFORM TO HEALTH
UNIT AND ENVIRONMENTAL PROTECTION ACT REQUIREMENTS.

Date

Nov 14/95

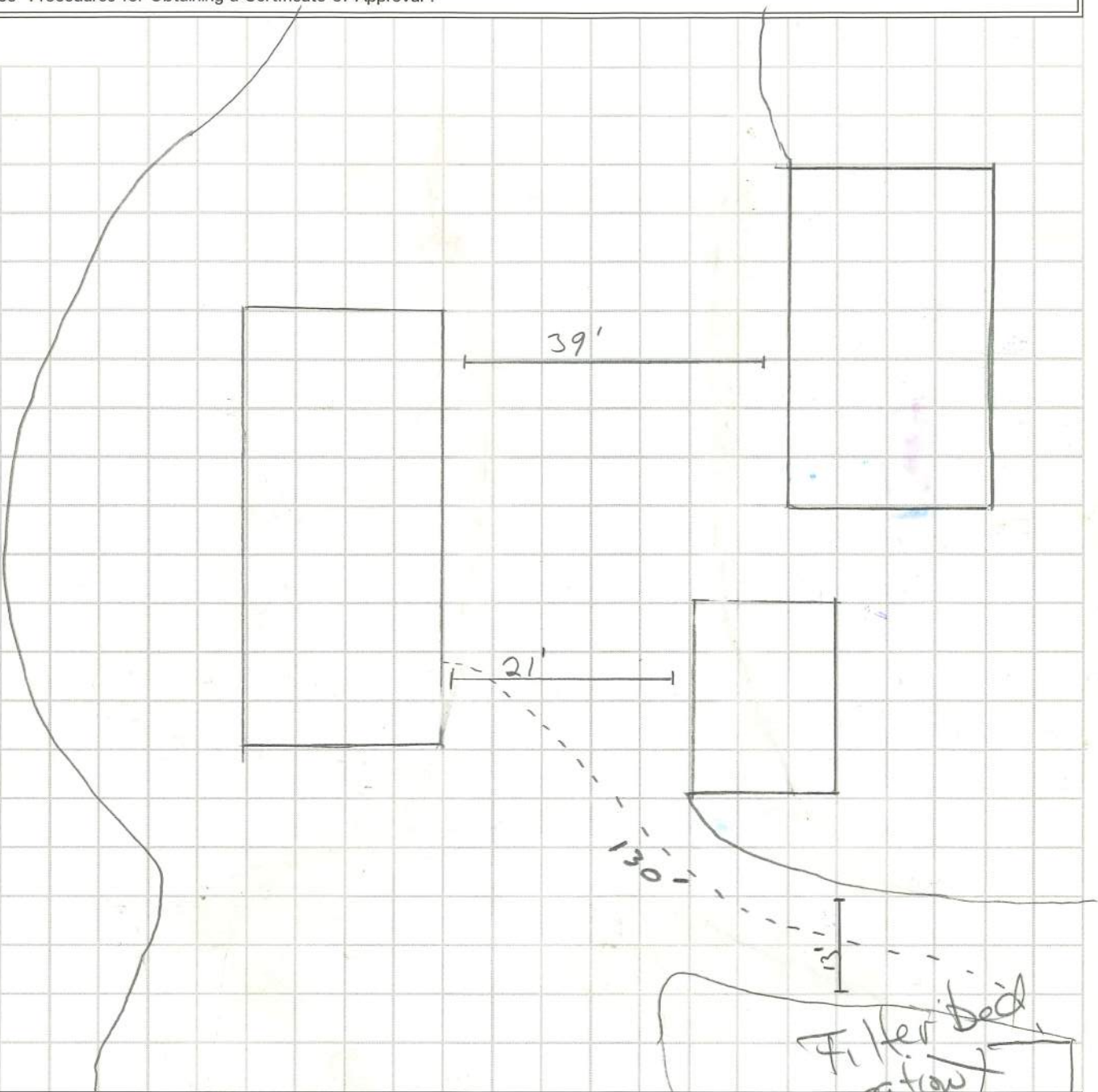
Signature of Owner or Agent

10

This Application is not transferable

11 Site Plan: see "Procedures for Obtaining a Certificate of Approval".

Scale Used:



IT IS THE APPLICANT'S RESPONSIBILITY TO ENSURE ALL INFORMATION GIVEN IS ACCURATE AND COMPLETE

12 **CERTIFICATE OF APPROVAL
REFUSED; reasons attached**

Director

Date

13 **CERTIFICATE OF APPROVAL
GRANTED; conditions attached**

Director

Date

This Certificate is hereby issued under Section 77 of the Environmental Protection Act only for the proposal outlined on Pages 1 and 2 of this application and its attachments, as amended by the requirements and conditions of Section 9 of the Act provided that the sewage system shall be completed and a Use Permit issued within 12 months of the issue hereof or such extended period as the Director on application allows.

DO NOT USE THE SYSTEM UNTIL A USE PERMIT IS ISSUED.

Under Section 139 of the Environmental Protection Act, an applicant may appeal a decision by writing to the Director and to the Environmental Appeal Board, 112 St. Clair Ave. West, Toronto, Ont., M4V 1N3 within 15 days of receipt of the decision.

An **Application** for which a Certificate of Approval cannot be issued within 1 year will be refused.

SIMCOE COUNTY DISTRICT HEALTH UNIT
ENVIRONMENTAL HEALTH SERVICES

FILE Middle And Golf Country Club
NUMBER SM-4(T)

CONDITIONS: CLASS 4FM FILTER MEDIUM SYSTEM

No variation from this approval is allowed without prior written permission from the Director.

The addition of fill to this property or any other works specified for the purpose of complying with Ontario Regulation 358/90 or the Environmental Protection Act as amended, does not relieve the owner of liability for damage that may be caused to adjacent properties by an alteration of drainage patterns.

Compliance with this approval does not provide exemption from Ontario Regulation 358/90 or the Environmental Protection Act, as amended.

IN ADDITION TO THE ABOVE, THE FOLLOWING CLAUSES, AS CHECKED OFF, APPLY:

- 1 ☐ Keep the plumbing high enough to allow gravity flow, otherwise a pump and pump chamber that is sized to deliver _____ gallons per 15' min. cycle will be required between the septic tank and the leaching bed.
An electrical inspection of the pump wiring may be required. Contact your local Ontario Hydro office.
- 2 ☐ Benchmark established as _____
- 3 ☒ Minimum septic tank size 800 gallons.
- 4 ☒ Minimum Top Contact Area 12x20=240 sq. ft.
Minimum Expanded Contact Area _____ sq. ft.
Total Combined Contact Area _____ sq. ft.
- 5 ☐ Construction details as per enclosed DWG.# FM. 01.
- 6 ☒ Combined Contact Area to be excavated to a maximum depth of 54 in. above/below benchmark/highest existing grade before site was disturbed. Grade and scarify base.
- 7 ☐ Minimum 12 in. deep sand mantle required as shown on lot diagram. Prepared base of mantle to be joined with and sloped away from Expanded Contact Area base so that sewage must pass laterally through a minimum 50 ft. of mantle material. The mantle is part of the sewage system and must not be altered or infringed upon.
The mantle area is in addition to any Contact Area specified in clause 4.
- 8 ☐ Call Health Unit for inspection of prepared base before placement of any imported material.
- 9 ☒ Submit proof of compliance with Ontario Regulation 358/90 and weigh bills for installed Filter Medium material before final inspection.

NOTE: Following inspection and approval of completed installation, backfill with 12 in. to 24 in. of suitable granular sand fill which must include 2 in. to 6 in. of topsoil.

Director <u>[Signature]</u>	Date <u>Nov 18/95</u>
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Simcoe County District Health Unit

FILTER SAND DOCUMENTTO: AGGREGATE SUPPLIER

The following granular material is required as a medium for filter bed systems.

Clean sand comprised of particles ranging in size between the limits of

- (1) an effective size of 0.25 millimetres with a uniformity coefficient not less than 3.5, and
- (2) an effective size of 2.5 millimetres with a uniformity coefficient not greater than 1.5.

THE FOLLOWING STATEMENT FROM THE AGGREGATE SUPPLIER IS REQUIRED:

THIS IS TO CERTIFY THAT

Lafontaine Sand & Gravel Ltd
name of aggregate supply company

HAS DELIVERED OR SOLD

29.56

tons of the

ABOVE GRANULAR MATERIAL TO

Timney's Septic Services
name of company or contractor

DATE

April 19th 1996

Cyrille Charlier
signature of seller

NOTE TO CONTRACTOR/OWNER

1. Please be careful not to mix this material with any other product as the characteristic of the filter bed material is easily changed.
2. The issuance of the sewage system Use Permit is dependant on this completed form being returned to the Health Unit.

OWNER OF PROPERTY

MIDLAND Golf & Country Club

CERTIFICATE OF APPROVAL #

95-M-4(T) TOWNSHIP MIDLAND

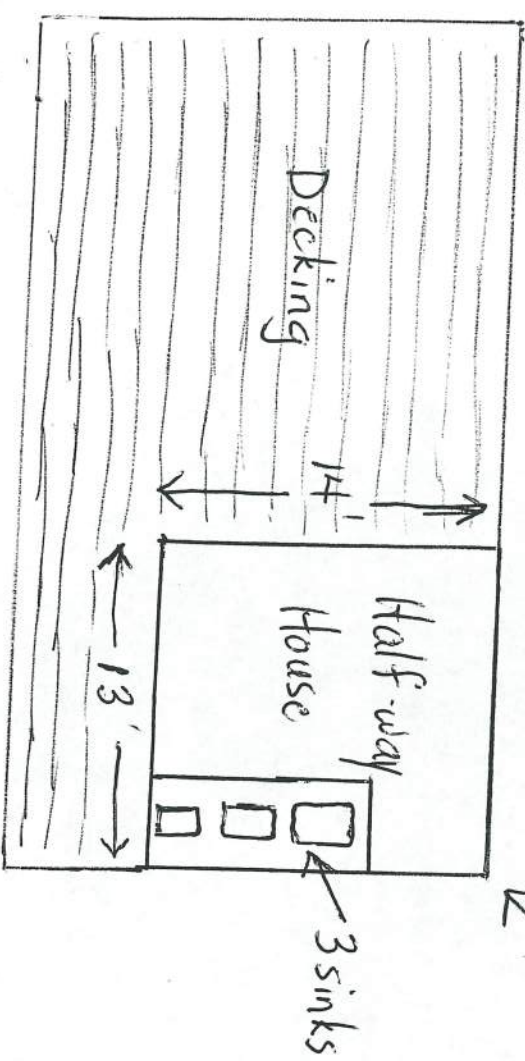
S.C.D.H.U.
RECEIVED

APR 22 1996

MIDLAND

Clubhouse

65'



ENVIRONMENTAL HEALTH SERVICES

**FILE
NUMBER**

95-m1-4

Scale Used:



IT IS THE APPLICANT'S RESPONSIBILITY TO ENSURE ALL INFORMATION GIVEN IS ACCURATE AND COMPLETE

**12 CERTIFICATE OF APPROVAL
REFUSED; reasons attached**

Director

Date _____

**13 CERTIFICATE OF APPROVAL
GRANTED; conditions attached**

Director

Date _____

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SIMCOE COUNTY
DISTRICT HEALTH UNIT

Change of Use
Permit Application

Permit no.
Roll no.

BP-1-M-01

Date rcvd.

April 18/01

Fee rcpt. no.

10635

PLEASE NOTE: this application is for additions / renovation that will NOT require upgrading of an existing sewage system. If an upgrade will be required, a Sewage System Permit Application should be used. If you are unsure, consult the Inspector before submitting this Application.

Name and Address of Registered Owner		Name and Address of Owner's Authorized Agent	
MIDLAND GOLF & COUNTRY CLUB			
9536 COUNTRY RD 93			
MIDLAND C4R 4K6			
Home Phone	Bus. Phone	Home Phone	Bus. Phone
	526-2878		

Property Assessment Roll Number:

Municipality New Name	Municipality Old Name	Concession	Twp. Lot No.	Plan No.	Sub. Lot No.
MIDLAND	TOWN	1075	PT. 110		
Street Name:		Street No. (911#)		Present Zoning:	

Plumbing Fixtures	no. before	no. after	No. of bedrooms existing before renovation...[]
Toilets	5	5	No. of bedrooms proposed after renovation...[]
Tubs / Showers	5	5	No. of separate dwelling units before...[] after...[]
Hot Tubs / Spas	—	—	Indicate FINISHED FLOOR AREA (in sq. meters) of:
Washbasins	88	9	Basement before: after:
Kitchen Sinks	4	6	First Floor before: after:
Automatic Dishwashers	2	2	Second Floor before: after:
Garbage Grinders	—	—	Third Floor before: after:
Laundry Tubs	7	7	Other before: after:
Automatic Washers	7	7	Total Area before: after:

Is there a Water Filter [] and / or a Water Softener [] that backwashes into the sewer lines? (check / if there is)

WATER SUPPLY: communal..[] drilled well..[x] dug well..[] lake or river..[] other..[] (describe)...

The SEWAGE SYSTEM was installed in (year). The owner then was

Provide 3 copies of a complete and detailed site plan that accurately shows the property and proposed work, on legal or letter size paper.

WARNING: any deviation from the approved plans, specifications or building location after the issuance of this permit is a violation of the Building Code Act and is liable to prosecution.

I agree to comply with the provisions of the Building By-Law and Zoning By-Law of the Municipality and By-Laws of the Simcoe County Board of Health and any amendments thereto. I further agree that neither the granting of a Permit nor the approval of the drawings and specifications, nor the inspections made by the authority having jurisdiction during the work on the building shall in any way relieve me from full responsibility for carrying out the work in accordance with the Ontario Building Code and the Regulations thereunder.

DECLARATION

I hereby certify that I have knowledge of the particulars contained in the foregoing Statements, and I solemnly declare that the same are in every respect, fully and truly stated to the best of my knowledge and belief, as if made under and by virtue of The Canada Evidence Act.

Signature (Owner or Agent) CHRIS COHOCAN Date April 17/01

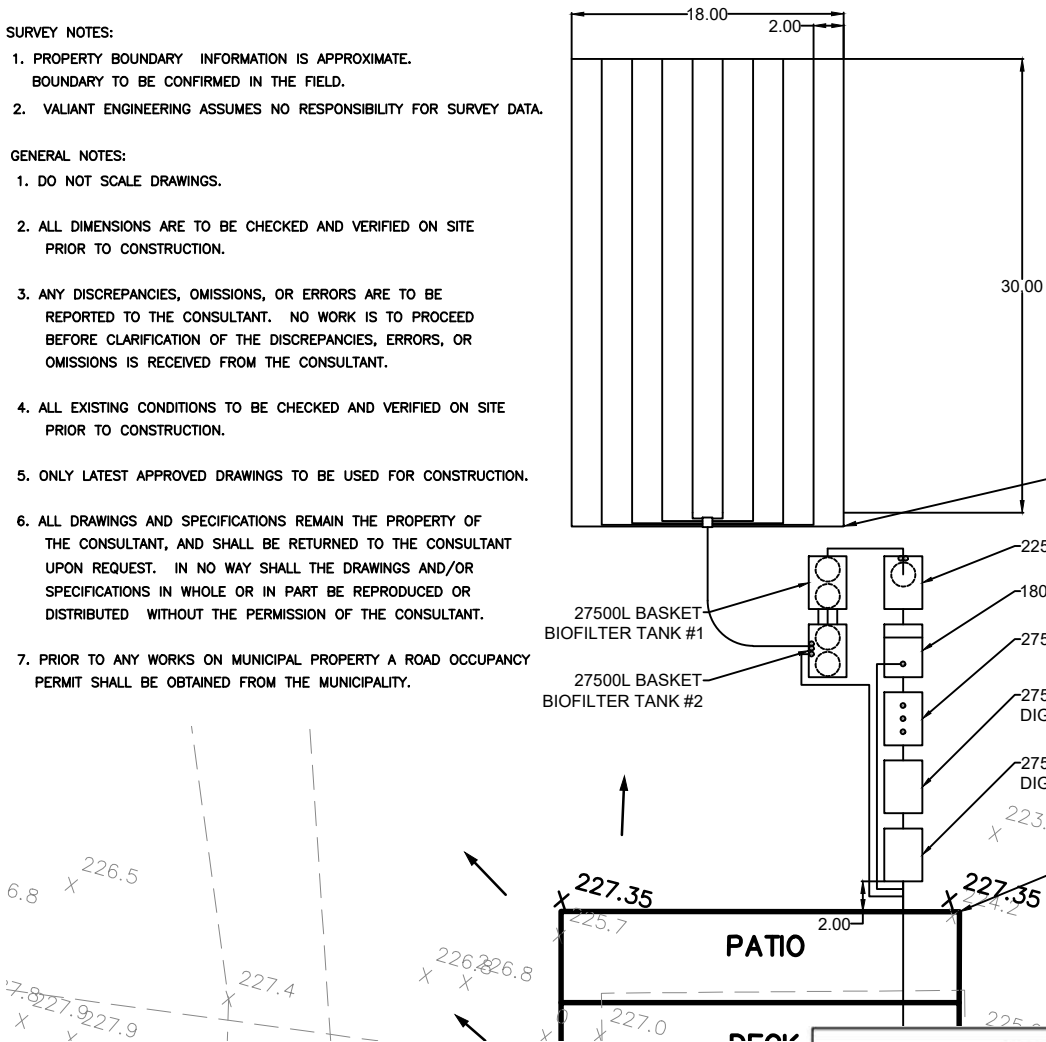
File Information..[] In [x]y. Site Inspection..[] In [x]y Date: April 17/01 UP# 95-M1-4

Granted as proposed...[x] Granted with conditions below...[] Unable to approve, reasons below...[]

Signature C.R. Antkowiak Date April 24/01

Chief Building Official or Designate, Simcoe County District Health Unit

- SURVEY NOTES:
1. PROPERTY BOUNDARY INFORMATION IS APPROXIMATE. BOUNDARY TO BE CONFIRMED IN THE FIELD.
 2. VALIANT ENGINEERING ASSUMES NO RESPONSIBILITY FOR SURVEY DATA.
- GENERAL NOTES:
1. DO NOT SCALE DRAWINGS.
 2. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION.
 3. ANY DISCREPANCIES, OMISSIONS, OR ERRORS ARE TO BE REPORTED TO THE CONSULTANT. NO WORK IS TO PROCEED BEFORE CLARIFICATION OF THE DISCREPANCIES, ERRORS, OR OMISSIONS IS RECEIVED FROM THE CONSULTANT.
 4. ALL EXISTING CONDITIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO CONSTRUCTION.
 5. ONLY LATEST APPROVED DRAWINGS TO BE USED FOR CONSTRUCTION.
 6. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF THE CONSULTANT, AND SHALL BE RETURNED TO THE CONSULTANT UPON REQUEST. IN NO WAY SHALL THE DRAWINGS AND/OR SPECIFICATIONS IN WHOLE OR IN PART BE REPRODUCED OR DISTRIBUTED WITHOUT THE PERMISSION OF THE CONSULTANT.
 7. PRIOR TO ANY WORKS ON MUNICIPAL PROPERTY A ROAD OCCUPANCY PERMIT SHALL BE OBTAINED FROM THE MUNICIPALITY.



SANITARY SEWER DESIGN SHEET
MGCC - PROPOSED CLUBHOUSE

q = average per capita daily flow 450 L/cap.d
c = unit of commercial/institutional flow 28.00 m³/ha.d
ic = unit of peak commercial/institutional extraneous flow 0.26 L/ha.s
p = unit of population density 2.30 ppu

Q(p) = peak population flow (L/s)
Q(i) = i x A = peak extraneous flow (L/s)
Q(c) = $\frac{c \times A}{86400}$ = peak commercial flow (L/s)
Q(d) = Q(p) + Q(i) = peak design flow (L/s)

P = population
M = peaking factor (Harmon)
P = p x # units / 1000
M = $1 + 14 / (4 + P^{1/2})$, maximum of 4.0, minimum of 2.0
Q = (P x q x M) / 86.4
M Min = 1.5
M Max = 3.8

DATE: Aug. 04, 2025 FILE No.: 1
DESIGNED: DW PROJECT: MGCC
CHECKED: Quantum Engineering

SHEET No.:
1 OF 1

LOCATION			INDIVIDUAL				CUMULATIVE				PEAKING FACTOR (M)	POPULATION FLOW, Q(p) (L/s)	CUMULATIVE COM./INST. FLOWS (L/s)	PEAK EXTRANEIOUS FLOW, Q(i) (L/s)	PEAK DESIGN FLOW, Q(d) (L/s)	PROPOSED SANITARY SEWER							
STREET	FROM MH	TO MH	No. RESIDENTIAL UNITS	POP	RES. AREA (ha)	COMM. (ha)	POP	RES. AREA (ha)	COM./INST. AREA (ha)	TOTAL AREA (ha)						LENGTH (m)	PIPE SIZE DIAMETER (mm)	GRADE (%)	MANNING'S n	CAPACITY (L/s)	FULL FLOW VELOCITY (m/s)	ACTUAL VELOCITY (m/s)	PERCENT FULL
Parking Lot	B	A				0.007	0.00	0.00	0.007	0.01	3.80	0.000	0.002	0.002	0.004	35.4	150	10.00%	0.013	48.2	2.72	0.25	0.0%
From Clubhouse	Clubhouse	A				0.684	0.00	0.00	0.691	0.69	3.80	0.000	0.224	0.180	0.403	24.0	150	10.00%	0.013	48.2	2.72	0.86	0.8%
To Tertiary System	A	Digester Tank#1				0.000	0.00	0.00	0.691	0.69	3.80	0.000	0.226	0.180	0.406	60.0	150	5.30%	0.013	35.1	1.98	0.68	1.2%
Notes:																							
1. The design capacity of the tertiary sewage treatment system is 22,000 L/day.																							
2. The design flow for the proposed clubhouse is 21,745 based on the system design by Valiant Engineering.																							
3. The existing flow for the administration office and the halfway house has been estimated at 200 L/day.																							
4. For the purposes of establishing the design L/s flow for use in this spreadsheet, the equivalent commercial area flow was established using a 15 hour day and the above daily flow. See below summary.																							
5. Flow Summary:	Source	Per day	L/s (based on 15 hour days)																				
	AdOffice+H.Hse	200	0.004																				
	Clubhouse	21,745	0.403																				
		Total	0.406																				

Stormwater Management Calculations

Date: April 3, 2025

Prepared By: DW

<u>Pre-Development Impervious</u>		
Asphalt	7979 sqm	
Buildings	1745 sqm	
Total	9724 sqm	
<u>Post-Development Impervious</u>		
Asphalt	8082 sqm	
Buildings	1733 sqm	
Total	9815 sqm	
% increase	0.9	

Total property area= 71.45

Parking Area Storage Calculation

Width	Depth	Length
V= 1.5	1.5	88
198	m ³	

Porosity Volume

Vp= V*0.40	
79.2	m ³

Building Area Storage Calculation

	Width	Depth	Length
Per Pit	V= 2	2	2
Total (4)	V= 8	m ³	
	V= 32	m ³	

Porosity Volume

Vp= V*0.40	
12.8	m ³