



**KEY PLAN
(NTS)**

GENERAL NOTES

1. LOCATION AND SIZE OF EXISTING UTILITIES WAS DERIVED FROM VARIOUS DRAWINGS FROM OTHERS. THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN AND, WHERE SHOWN THE ACCURACY OF THE LOCATION SHOWN OF SUCH UTILITIES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL CONTACT ALL SUCH UTILITIES INVOLVED AND INFORM HIMSELF AS TO THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME LIABILITY FOR DAMAGE TO THEM. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES WITH THIS DRAWING TO THE ENGINEER IMMEDIATELY.
2. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS, AND THE NIAGARA PENINSULA STANDARD CONTRACT DOCUMENT (NPSCD) UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
4. COMPUTER DRAWING FILE CO-ORDINATES FOR THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION LAYOUT UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
5. ALL GRANULAR MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY AND ALL NATIVE BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE NOTED.
6. ALL CONSTRUCTION SHALL BE CARRIED OUT IN SUCH A WAY THAT SILTATION OR OTHER DAMAGE TO WATER COURSES DOES NOT OCCUR. THE REQUIREMENTS OF THE MINISTRY OF NATURAL RESOURCES ARE TO BE ADHERED TO IN THIS RESPECT.
7. ALL EXCAVATION IN EXISTING ROADWAYS OR OTHER PAVED SURFACES SHALL BE BACKFILLED WITH GRANULAR "A" COMPACTED TO 100% SPD. MIN.
8. CONTRACTOR TO OBTAIN EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF WORK AND REPORT ANY CONFLICTS OR DISCREPANCIES WITH THESE DRAWINGS TO THE ENGINEER IMMEDIATELY.

ROADS AND EARTHWORKS

9. FILL FOR ROADWAY AND PARKING AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 501 IN 200mm THICK LIFTS, USING SUITABLE NATIVE EXCAVATED OR IMPORTED MATERIAL APPROVED BY CONTRACT ADMINISTRATOR AND GEOTECHNICAL ENGINEER. THE SUBSOIL BELOW ANY ROADWAY OR PARKING AREA SHALL BE PROOF ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER OR HIS DESIGNATE PRIOR TO THE PLACEMENT OF ANY GRANULAR MATERIAL. THE UPPER 0.6m BELOW ANY RIGID OR PAVED SURFACE SHALL BE COMPACTED TO 98% SPD MIN.
10. MINIMUM ASPHALT AND GRANULAR THICKNESS FOR DRIVEWAY AND PARKING AREA PER OPSS 310 & 314 AS FOLLOWS:

	HEAVY DUTY	LIGHT DUTY
SURFACE COURSE	40mm HL3	40mm HL3
BINDER COURSE	65mm HL8	50mm HL8
GRANULAR BASE	500mm GRAN."A"	350mm GRAN."A"
TOTAL THICKNESS	605mm	440mm

11. WHERE DISTURBED OR DAMAGED, EXISTING ROADS TO A REINSTATED TO MATCH EXISTING, WHICHEVER IS GREATER. PAVEMENT REINSTATEMENT SHALL COMPLY WITH OPSS 509.010 & OPSS 310, INCLUDING STEP JOINT 300mm WIDE FOR SURFACE COURSE (WHERE APPLICABLE). ALL TO THE SATISFACTION OF THE ROAD AUTHORITY.

HYDRANT

12. FIRE HYDRANT ASSEMBLY SHALL BE DRY TYPE AND SHALL BE INSTALLED TO THE SATISFACTION OF TOWN OF MIDLAND FIRE DEPARTMENT.

SEWERS

13. SUBDRAIN TO BE 100mm HIGH-DENSITY POLYETHYLENE PER OPSS 405; FILTER-WRAPPED WITH GRANULAR "A" SURROUND PER OPSS 216.021.

LEGEND

- PROPERTY LINE
- × EXISTING ELEVATION
- 213.82 PROPOSED ELEVATION
- 3.45% 11.01m PROPOSED DIRECTIONAL FLOW & DIST.
- 2% PROPOSED SLOPE
- ⊕ FIRE HYDRANT
- FENCE
- ▣ CATCH BASIN

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NOTES:
 1. All drawings are to be read in conjunction with the latest version of the Ontario Building Code.
 2. Verify all dimensions prior to construction.
 3. Do not scale drawings.
 4. Report all discoveries of errors, omissions or discrepancies to the Architect or Design Engineer as applicable.
 5. The drawings are the property of the Architect and/or Engineer and must be returned on completion of the project. Any unauthorized use is prohibited.
 6. Use only the latest revised drawings or those that are marked issued for construction.
 7. All area calculations are approximate and shall be site specified by the General Contractor.



NO.	ISSUED/REVISED	DATE
6	REVISED FOR PERMIT	JUNE 14, 2023
5	REVISED FOR PERMIT	MAR 16, 2023
4	REVISED FOR PERMIT	AUG 17, 2022
3	REVISED FOR PERMIT	MAR 06, 2022
2	REVISED FOR PERMIT	FEB 24, 2022
1	REVISED FOR PERMIT	JULY 15, 2021

Owner & Address

16621 HWY 12
 MIDLAND, ONTARIO

Drawing Title

GRADING PLAN

Project No.	DES21-03-13A
Drawn by	R.F.
Checked by	A.Z.
Date	JUNE 14, 2023
Drawing No.	C101
Scale	1:180