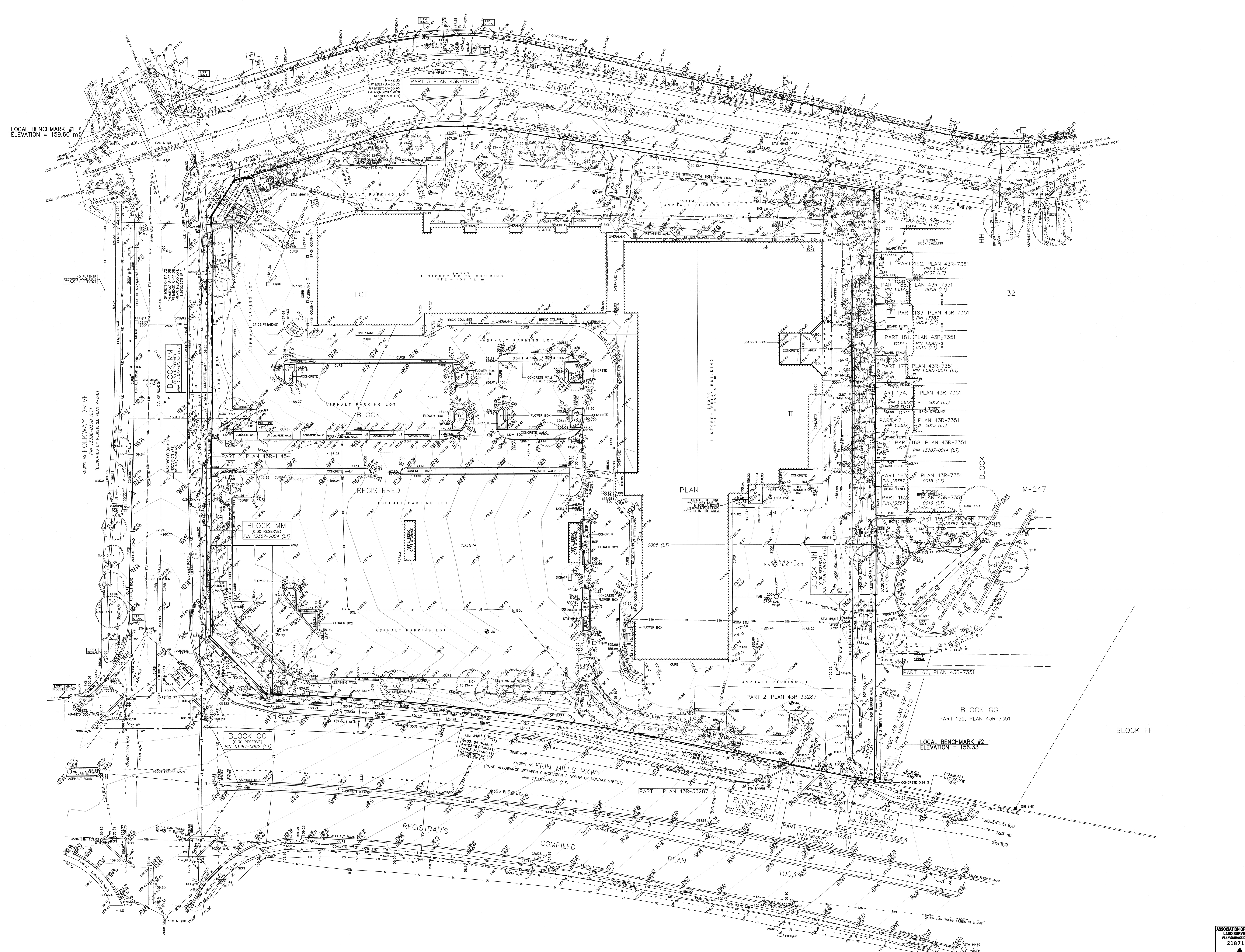
PLAN OF SURVEY ILLUSTRATING TOPOGRAPHY OF

BLOCK II
REGISTERED PLAN M-247
CITY OF MISSISSAUGA
REGIONAL MUNICIPALITY OF PEEL

SCALE 1 : 300

0 5 10 20 metres

J.D. BARNES LIMITED
© COPYRIGHT



METRIC DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

ELEVATION NOTE

ELEVATIONS SHOWN ON THIS PLAN ARE RELATED TO GEODETIC DATUM AND ARE DERIVED FROM THE CITY OF MISSISSAUGA BENCHMARKS:

No. 799
ON THE NORTH FACE FAR NORTH CORNER OF SOLEL CONGREGATION SYNAGOGUES ON THE NORTH-WEST CORNER OF ERIN MILLS PARKWAY AND FOLKWAY DRIVE.

ELEVATION = 160.866 m

No. 30
ON THE SOUTH FACE AT THE WEST CORNER OF A STONE HOUSE #2700 ON THE NORTH SIDE OF BURBANK DRIVE, WEST OF SAWMILL VALLEY DRIVE.

ELEVATION = 150.781 m

LOCAL BENCHMARK #1

A CUT CROSS ETCHED IN A CONCRETE WALK ON FOLKWAY DRIVE LOCATED APPROXIMATELY 14.8 METERS NORTHWEST FROM A SANITARY MANHOLE, 9.9 METERS SOUTH FROM A CATCH BASIN, 2.4 METERS WEST FROM THE BACK OF CURB, AS SHOWN ON THE FACE OF PLAN.

ELEVATION = 159.60 m

LOCAL BENCHMARK #2

A CUT CROSS ETCHED IN A CONCRETE CURB LOCATED APPROXIMATELY 21.4 METERS SOUTH WEST FROM A CATCH BASIN, 11.5 METERS SOUTH OF A MONITORING WELL, 21.4 METERS WEST FROM THE SOUTHEASTERN CORNER OF THE SUBJECT BOUNDARY, AS SHOWN ON THE FACE OF PLAN.

ELEVATION = 156.33 m

NOTES

BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A AND B, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (CSRS) (2010.0).

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99971595.

FOR BEARING COMPARISONS, A ROTATION OF 01°04'05" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1

FOR BEARING COMPARISONS, A ROTATION OF 00°52'10" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P2

INTEGRATION DATA

OBSERVED REFERENCE POINTS (ORPs): UTM ZONE 17, NAD83 (CSRS) (2010.0).

COORDINATES TO URBAN ACCURACY PER SECTION 14 (2) OF O.REG 216/10.

POINT ID	EASTING	NORTHING
ORP (A)	605 990.31	4 822 719.88
ORP (B)	605 865.67	4 822 823.71

COORDINATES CANNOT, IN THEMSELVES, BE USED TO RE-ESTABLISH CORNERS OR BOUNDARIES SHOWN ON THIS PLAN.

THE RESULTANT TIE BETWEEN ORP (A) AND ORP (B) IS 162.27 N 50°12'20" W

LEGEND

- ■ DENOTES SURVEY MONUMENT FOUND
- □ DENOTES SURVEY MONUMENT SET
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDARD IRON BAR
- WIT DENOTES WITNESS
- MEAS DENOTES MEASURED
- JDB DENOTES BUILDING LOCATION SURVEY BY DONALD E.ROBERTS LTD O.L.S. DATED DECEMBER 13th, 1984
- P1 DENOTES REGISTERED PLAN M-247
- P2 DENOTES MARSHALL MACKLIN MONAGHAN LIMITED, O.L.S
- MMM DENOTES WITNESS
- WIT DENOTES NOT IDENTIFIABLE
- NI DENOTES CHAIN LINK FENCE
- CLF DENOTES BOARD FENCE
- BF

ALL SET SSIB MONUMENTS WERE USED DUE TO LACK OF OVERBURDEN AND/OR PROXIMITY OF UNDERGROUND UTILITIES IN ACCORDANCE WITH SECTION 11 (4) OF O.REG. 525/91.

TOPOGRAPHIC LEGEND

- HPED DENOTES HYDRO PEDESTAL
- G METER DENOTES GAS METER
- CAP DENOTES CAP
- PLUG DENOTES PLUG
- P A/R DENOTES POSSIBLE ABANDONED/REMOVED
- BOL DENOTES BOLLARD
- TSC DENOTES TRAFFIC SIGNAL CONTROL
- TL DENOTES TRAFFIC SIGNAL
- H DENOTES FIRE HYDRANT
- WK DENOTES WATER KEY
- BSP DENOTES BURIED SPRINKLER
- SV DENOTES SPRINKLER VALVE
- MW DENOTES MONITORING WELL
- DENOTES CONIFEROUS TREE DIA=DIAMETER OF TRUNK IN METRES
- DENOTES DECIDUOUS TREE DIA=DIAMETER OF TRUNK IN METRES
- SAN DENOTES UNDERGROUND SANITARY SEWER
- STM DENOTES UNDERGROUND STORM SEWER
- G DENOTES UNDERGROUND GAS LINE
- W DENOTES UNDERGROUND WATER LINE
- UE DENOTES UNDERGROUND HYDRO LINE
- UC DENOTES UNDERGROUND CABLE LINE
- UT DENOTES UNDERGROUND TELEPHONE LINE
- FO DENOTES UNDERGROUND FIBRE OPTIC LINE
- SAN MH DENOTES SANITARY MANHOLE
- STM MH DENOTES STORM MANHOLE
- CB DENOTES CATCH BASIN
- DICB DENOTES DITCH INLET CATCH BASIN
- DCB DENOTES DOUBLE CATCH BASIN
- GV DENOTES GAS VALVE
- WMH DENOTES WATER MANHOLE
- WV DENOTES WATER VALVE
- HMH DENOTES HYDRO MANHOLE
- LS DENOTES LIGHT STANDARD
- HT DENOTES HYDRO TRANSFORMER
- TMH DENOTES TELEPHONE MANHOLE
- CPED DENOTES TV PEDESTAL
- GLC DENOTES GROUND LEVEL CHAMBER
- CJB DENOTES COMMUNICATION JUNCTION BOX
- HW DENOTES HANDWELL
- CAP DENOTES CAP
- PLUG DENOTES PLUG
- P A/R DENOTES POSSIBLE ABANDONED/REMOVED

AREA = 26405 Sq m.

BEFORE DIGGING, UNDERGROUND SERVICES SHOULD BE LOCATED ON SITE BY THE RESPECTIVE AGENCIES.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LOCAL BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED AND THAT THE RELATIVE ELEVATIONS AGREE WITH THE INFORMATION SHOWN ON THIS PLAN.

PRIMARY CONTOURS ARE AT 1.00m INTERVALS.
SECONDARY CONTOURS ARE AT 0.25m INTERVALS.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 4th DAY OF JANUARY, 2022.

Feb. 14th, 2022
DATE

SUNIL PERERA
ONTARIO LAND SURVEYOR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
2187123

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR In accordance with Regulation 1026, Section 29(3).

J.D.BARNES LIMITED
SURVEYING MAPPING GIS
LAND INFORMATION SPECIALISTS
401 WHEELABRATOR WAY, SUITE A, MILTON, ON L9T 3C1
T: (905) 875-9955 F: (905) 875-9956 www.jdbarnes.com

DRAWN BY: SC	CHECKED BY: SL	REFERENCE NO.: 21-30-771-00-A
PLOTTED: 2/14/2022		DATED: FEBRUARY/14/2022

FILE: G:\21-30-771\00\Drawing\21-30-771-00-A.dgn

SEWER INVERT DATA TABLE

MH/CB	DIRECTION	DIAMETER	INVERT	COMMENTS
STM MH#1	N E SW W	525 825 525 825	5.69 6.09 5.70 5.93	
STM MH#2	SE W	825 825	4.94 4.90	
STM MH#3	NW SE	825 825	3.94 4.02	
STM MH#4	NW NW E SW	*450 *825 825 675	5.26 3.74 5.60 5.32	DROP RECESSED
STM MH#5	NE SW	525 525	4.66 4.62	
STM MH#6	NE S W	525 250 525	5.30 2.50 5.22	
STM MH#7	NW NE SE	450 250 450	3.55 3.27 3.56	
STM MH#8	NW SE	450 450	3.84 3.90	RECESSED
STM MH#9	NW SE	450 525	2.78 2.83	
STM MH#10	NW N E SW	±300 ±300 300 300	3.12 3.12 3.02 3.16	
STM MH#11	SE SW	200 200	2.08 2.07	
STM MH#12	NW SE SW SW	200 300 250 150	1.55 1.58 1.60 1.50	
STM MH#13	NW SW	300 400	2.40 2.52	
STM MH#14	NE SE S	300 450 200	3.40 3.48 3.27	
STM MH#15	NW NW NE NE SE SW	450 450 450 300 600 250	3.13 5.15 5.14 3.85 5.16 5.10	DROP
STM MH#16	NW E SW	600 600 300	3.24 3.33 3.10	
STM MH#17	E W	600 600	3.66 3.51	
STM MH#18	SE SW	300 250	2.40 2.39	
STM MH#19	NW SE	300 300	2.93 3.00	
STM MH#20	NW NE SW	300 400 450	3.02 3.02 3.12	
SAN MH#1	N E W	250 250 250	5.97 5.99 5.86	
SAN MH#2	SE W	250 250	4.92 4.87	
SAN MH#3	NW SE	250 250	3.95 3.98	
SAN MH#4	NW NW E SW	250 250 250 250	±5.58 ±3.64 5.64 5.58	DROP
SAN MH#5	NW NW NE SE	250 200 200 250	4.57 1.40 4.60 4.70	DROP
SAN MH#6	NW E	250 250	3.55 3.56	
SAN MH#7	E W	250 250	3.70 3.66	
CB#1	E	250	1.30	
CB#2	E	250	1.30	
CB#3	NE	250	1.35	
CB#4	SW	250	1.50	
CB#5	NE	250	1.41	
CB#6	SW	250	1.46	
CB#7	NE	250	1.74	
CB#8	SE	200	1.40	
CB#9	SE	300	1.40	
CB#10	NE	200	1.65	
DCB#11	SE	250	1.22	
DCB#12	NW	250	1.38	
CB#13	S	200	1.22	
CB#14	N SW	200 ±300	2.04 2.16	
CB#15	SE	±200	1.14	
DCB#16	SE	±300	1.54	
DCB#17	SE	±300	1.64	
CB#18	N SW	200 150	1.55 1.00	
CB#19	SW	300	1.34	
CB#20	NE	250	1.52	
CB#21	N/A	N/A	N/A	DEBRIS PRESENT NO VISIBLE LEADS
CB#22	N	250	1.24	
CB#23	SW	250	1.16	
DCB#24	SE	±300	1.40	RECESSED
DCB#25	SW	300	1.18	
CB#26	SW	250	1.27	
CB#27	NE	250	1.23	
CB#28	SW	300	1.27	
CB#29	NE	±300	1.37	RECESSED
CB#30	SW	250	1.11	
DICB#31	NE	250	1.18	
CB#32	SW	250	1.30	
CB#33	N	±250	1.28	

INFORMATION OBTAINED FROM RECORDS PROVIDED BY: THE CITY OF MISSISSAUGA AND PEEL REGION; NOT FIELD VERIFIED BY ONSITE LOCATES INC.

SEWER INVERT NOTE:

SEWER INVERT DEPTHS ARE MANUALLY MEASURED FROM THE LID/GRATE OF THE GIVEN FEATURE.

ANNOTATIONS DISPLAYED AS *ITALICIZED* WITH AN ASTERISK* HAVE BEEN INTERPOLATED FROM RECORDS AND WERE NOT FIELD VERIFIED BY ONSITE LOCATES LTD.

INVERT DEPTH MEASUREMENTS ARE FROM THE ASSUMED BOTTOM OF THE FACILITY STRUCTURE.

DEPTHS ARE NOT SUITABLE FOR EXCAVATION PURPOSES. SEWER NETWORK CONNECTIONS WERE COMPILED WHERE FIELD EVIDENCE COINCIDED WITH AS-BUILT RECORDS.

WHERE NO DEPTH INFORMATION COULD BE OBTAINED, UTILITIES ARE ASSUMED TO BE AT STANDARD INSTALLATION DEPTH FOR THE SPECIFIC TYPE OF UTILITY.

THE MOST RELIABLE WAY TO PRECISELY DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF AN UNDERGROUND UTILITY IS THROUGH PHYSICAL EXPOSURE USING SAFE DIGGING TECHNIQUES (COMMONLY PERFORMED WITH HYDRO VACUUM EXCAVATION).

INVERT DEPTH MEASUREMENTS HEREON ARE PROVIDED IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

WATERMAIN AND/OR WATER SERVICE MATERIALS TO BE PLASTIC PIPE PVC CLASS 150 MANUFACTURED TO A.W.W.A. SPECIFICATION C-900-75 C/W 14 GAUGE LIGHT PLASTIC COATED SOLID COPPER TRACER WIRE. WIRE TO RUN PARALLEL WITH PLASTIC PIPE AND TERMINATE AT EACH VALVE BOX.

UNDERGROUND UTILITY NOTES

THE UTILITY DATA DEPICTED ON THIS DRAWING WERE ACQUIRED IN ACCORDANCE WITH ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY ATTRIBUTED QUALITY LEVELS WHICH ARE DEFINED AS FOLLOWS:

DATA QUALITY LEVEL

HIGHEST QUALITY — QUALITY LEVEL A — QUALITY LEVEL B — QUALITY LEVEL C — QUALITY LEVEL D — LOWEST QUALITY

QUALITY LEVEL "A" - INFORMATION OBTAINED BY ACTUAL PHYSICAL EXPOSURE OF TARGETED UTILITIES AND SUBSEQUENT MEASUREMENT OF THE EXPOSED PRECISE HORIZONTAL AND VERTICAL POSITION.

QUALITY LEVEL "B" - INFORMATION OBTAINED USING GEOPHYSICAL LOCATE TECHNIQUES TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE DESIGNATED UTILITIES.

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO THE QUALITY "D" INFORMATION OBTAINED.

QUALITY LEVEL "D" - INFORMATION DERIVED FROM UTILITY RECORDS OR VERBAL RECOLLECTIONS

ALL SERVICES ARE QUALITY "D" UNLESS NOTED OTHERWISE. LEVEL "D" RECORD INFORMATION SHOWN ON THIS PLAN HAVE BEEN PLOTTED APPROXIMATELY AS PER THE RECORDS FOUND AND COULD NOT BE FIELD VERIFIED WITHIN THE SCOPE OF THIS PROJECT. IF FURTHER VERIFICATION IS REQUIRED, IT IS SUGGESTED THAT LEVEL "A" METHODOLOGIES BE EMPLOYED.

LOST SIGNAL- DENOTES/INDICATES A POINT WHERE QL-B METHODS COULD NO LONGER ASCERTAIN THE HORIZONTAL POSITION OF A FACILITY.

QUALITY LEVEL "D" INFORMATION COMPILED FROM RECORDS PROVIDED BY: ALECTRA UTILITIES ONTARIO ONE-CALL TICKET NUMBER: 20213926992, 20213927050, 20213927076, 20213927096, 20213927126, BELL MU 6847,48,49,50,51.dgn, Enbridge EGD File number: 33527310, CITY OF MISSISSAUGA PLAN NO. C-16185, C-16195, ROGERS REF NO. M214503, REGION OF PEEL CONSULTANT PROJECT NO. 10-9304, DWG. NO. W10 AND W11, PLAN NO. 30525-D, 45567-D, 45568-D, 54895-D, 55324-D, 55325-D, C-14287, C-16218.

CAUTION: CALL BEFORE YOU DIG

THIS PLAN IS INTENDED FOR DESIGN PURPOSES ONLY. OTHER BURIED UTILITIES MAY EXIST WHICH ARE NOT SHOWN DUE TO INSUFFICIENT INFORMATION OR IMPROPER INSTALLATION. CONTACT ALL POTENTIAL OWNERS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION OR BREAKING GROUND.
IT IS THE RESPONSIBILITY OF THE CONTRACTOR/BUILDER TO ENSURE THE APPROPRIATE LEGAL REQUIREMENTS ARE MET.

SUBSURFACE UTILITY FIELD WORK WAS COMPLETED ON THE 29th DAY OF NOVEMBER, 2021