

GENERAL NOTES

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE REGIONAL MUNICIPALITY OF HALTON (INCLUDING REGION OF HALTON'S CONTRACTOR INFORMATION PACKAGE), TOWN OF OAKVILLE AND THE ONTARIO BUILDING CODE (PART 7). ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS & OPSD) SHALL BE USED IN ABSENCE OF LOCAL STANDARDS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, MECHANICAL AND LANDSCAPE DRAWINGS.
- ALL INFORMATION SHOWN REGARDING THE LOCATION AND SIZE OF EXISTING UTILITIES AND/OR SERVICES HAS NOT BEEN VERIFIED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PROTECTING AND MAINTAINING DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL GIVEN GRADES AND ELEVATIONS, PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
- ALL GRADING CHANGES SHALL BE APPROVED BY THE ENGINEER AND TOWN OF OAKVILLE PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL CLEAN ALL MUD TRACKED ON TO ADJACENT ROADWAYS.
- THE CONTRACTOR IS RESPONSIBLE FOR RESTORING DISTURBED AREAS. AREAS WITHIN THE MUNICIPAL RIGHT OF WAY SHALL BE RESTORED TO THE TOWN OF OAKVILLE AND REGION OF HALTON SATISFACTION.
- ALL UTILITIES SHALL BE BACKFILLED WITH GRANULAR BACKFILL COMPACTED TO 98% S.P.M.D. NATIVE BACKFILL MAY BE USED WITH THE PERMISSION OF THE GEOTECHNICAL CONSULTANT. BEDDING AND COVER MATERIAL SHALL BE PER THE GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS.
- BACKFILLING AND RESTORATION WITHIN THE PUBLIC ROAD SHALL BE IN ACCORDANCE WITH THE TOWN OF OAKVILLE ROAD CUT PERMIT AND TO THE SATISFACTION OF THE ENGINEERING & CONSTRUCTION DEPARTMENT.
- SURROUND ALL MANHOLES WITH A MINIMUM OF 1.5m COMPACTED GRANULAR 'C' BACKFILL.
- ALL ENDS OF SERVICE CONNECTIONS SHALL BE MARKED WITH 50x100 LUMBER PLACED FROM INVERT OF SERVICE TO 1.0m ABOVE GRADE.

SANITARY SEWERS

- SANITARY MANHOLE SHALL BE AS PER OPSD 701.010* C/W "TYPE A" COVER PER OPSD 401.010* AND FULL BENCHING.
 - * INDICATES O.P.S.D. CAN BE USED MODIFIED BY REGION OF HALTON.
- STORM SEWERS**
- ALL STORM SEWERS 600 mm AND SMALLER SHALL BE PVC SDR35 OR ULTRA RIBBED PVC CSA B182.2 WITH BEDDING PER OPSD 802.010 UNLESS OTHERWISE NOTED.
 - ALL STORM SEWERS 675 mm AND LARGER SHALL BE REINFORCED CONCRETE PIPE CLASS 65-D CSA A257.2 COMPLETE WITH BEDDING PER OPSD 802.030.
 - CATCHBASIN SHALL BE PER OPSD 705.010, DOUBLE CATCHBASIN PER OPSD 705.020 C/W GRATE PER OPSD 400.020
 - CATCHBASINS IN LANDSCAPED AREAS SHALL BE SUMPLESS AND C/W BEEHIVE TOP AS PER TOWN STD. 5-2
 - ALL CB'S IN LANDSCAPED AREAS SHALL BE INSTALLED WITH C/W DRAIN AS NOTED ON THE SERVING PLAN. SUB-DRAIN TO BE 100mm PERFORATED PIPE C/UB FILTER SOCK SURROUNDED BY 13mm CLEAR STONE.
 - ALL CB LEADS SHALL BE 250mm@ AT 1.0% UNLESS OTHERWISE NOTED.
 - ALL CATCHBASIN MANHOLES SHALL BE BENCHING.
 - ALL STORM MANHOLES SHALL BE 1200mm@ PER OPSD 401.010 UNLESS OTHERWISE NOTED.
 - ALL CATCHBASIN AND CATCHBASIN MANHOLES IN PAVED AREAS SHALL BE INSTALLED WITH 3.0m - 100mm@ PERFORATED PIPE C/W FILTER SOCK EXTENDING OUT FROM THE CATCHBASIN AND LOCATED BELOW THE SUBGRADE SURROUNDED BY 150mm GRANULAR 'A'.

WATERMAINS

- 100mm AND LARGER SERVICES SHALL BE PVC, C-900, CLASS 150, SDR18 C/W MECHANICAL RESTRAINTS & TRACER WIRE PER REGION OF HALTON REQUIREMENTS.
- 50mm AND SMALLER SERVICE SHALL BE TYPE "K" SOFT COPPER TUBING.
- BEDDING ON WATER SERVICE SHALL BE PER OPSD 802.010*.
- VALVE AND BOX FOR 100mm TO 300mm WATER SERVICE PER REGION OF HALTON STD.
- COVER SHALL BE 1.7m MIN. UNLESS OTHERWISE NOTED.
- CONNECTION TO EXISTING WATERMAIN SHALL BE PER REGION OF HALTON STD RH 409.010.
- WATER SYSTEM SHALL BE PRESSURE TESTED TO 150 PSI FOR 3 HRS AND WITNESSED BY REGION OF HALTON.
- HYDRANTS SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C502 AND SHALL HAVE STEAMER PORTS AS PER REGION STANDARD SPECIFICATIONS (SEE NOTE 12). ALL HYDRANTS SHALL BE INSTALLED AS PER OPSD 1105.010*. IF HYDRANT BARREL DEPTH EXCEEDS 1.7m A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.
- * INDICATES O.P.S.D. CAN BE USED AS MODIFIED BY REGION OF HALTON.
- MINIMUM LATERAL SEPARATION FROM OTHER UTILITIES IS 2.5m
- WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m (12 INCHES) OVER, 0.50m (20 INCHES) UNDER SEWERS AND ALL OTHER UTILITIES.
- STORZ PUMPER CONNECTION FOR HYDRANTS AS FOLLOWS:
TWO (2) 63.5mm (2 1/2") WITH CSA STANDARD THREAD, 63.5mm I.D., 5 THREADS PER 25mm, 31.75mm SQUARE OPERATING NUT; AND STORZ CAP PAINTED GLOSS BLACK.
- WATER SERVICES/MAINS SHALL BE TESTED & DISINFECTED AS PER ANSI/AWWA C651-99 AND REGION OF HALTON REQUIREMENTS.

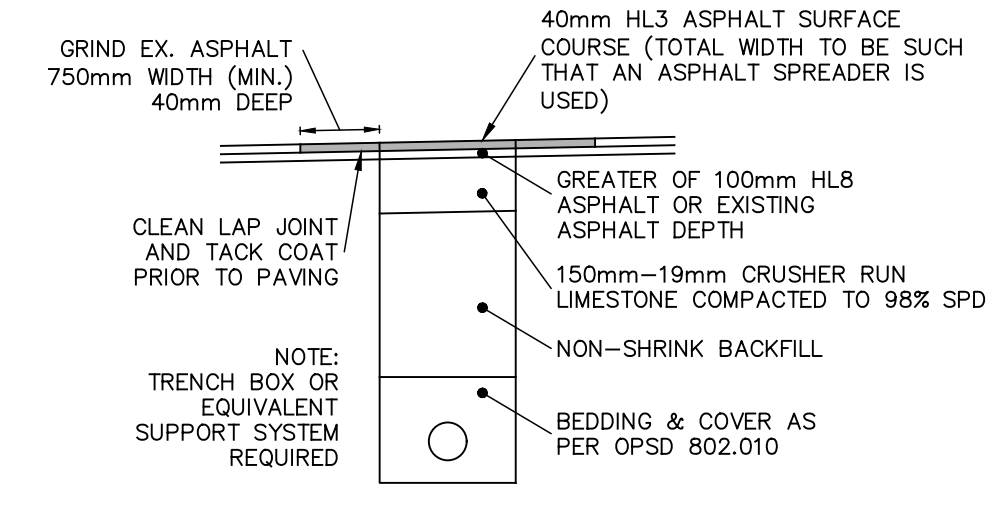
REGIONAL APPROVAL:

REGION DESIGN OF WATER &/OR WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM AREA MUNICIPALITY.

SIGNED: _____ DATED: _____

INFRASTRUCTURE PLANNING AND POLICY

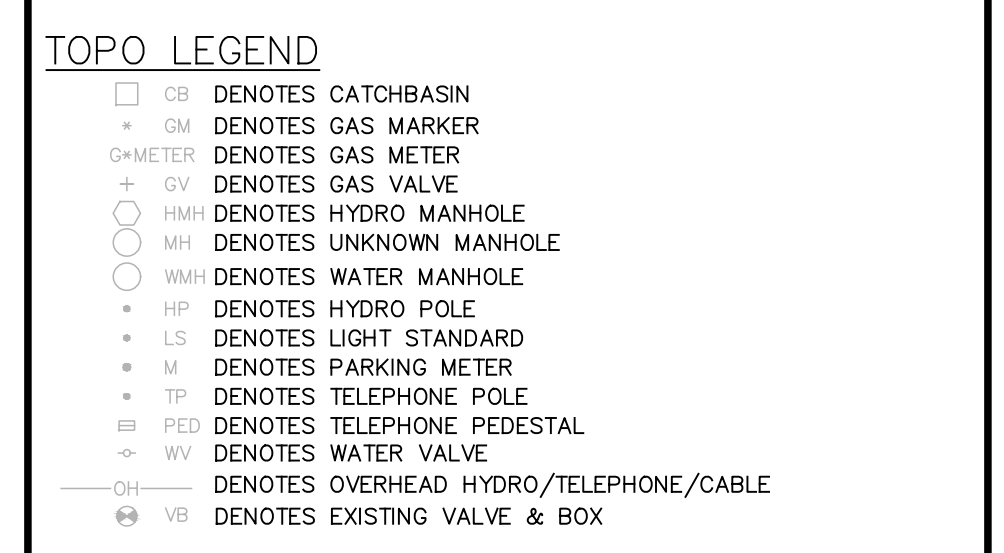
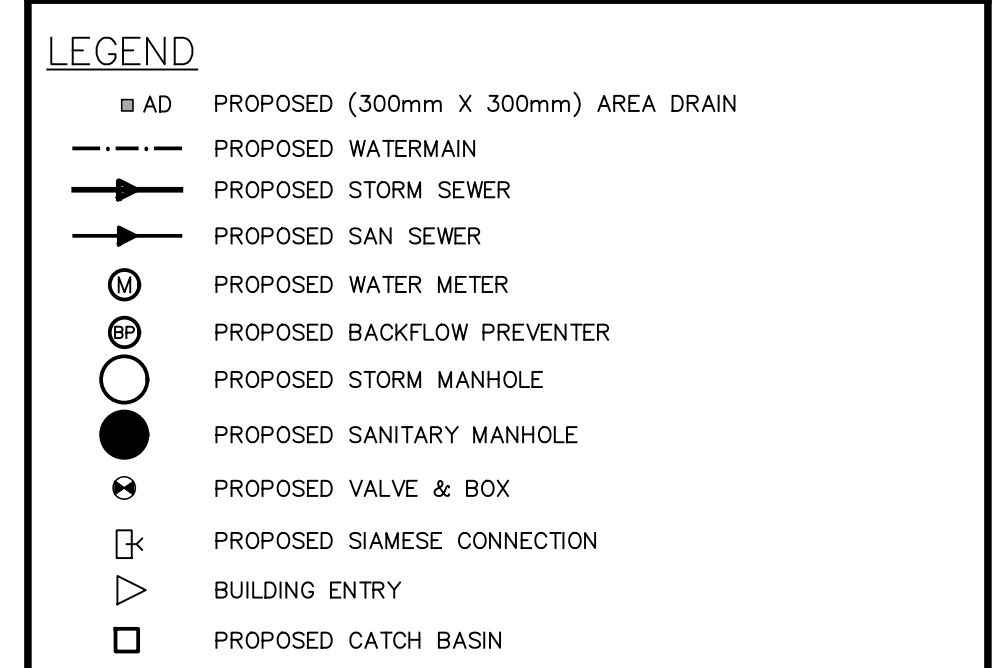
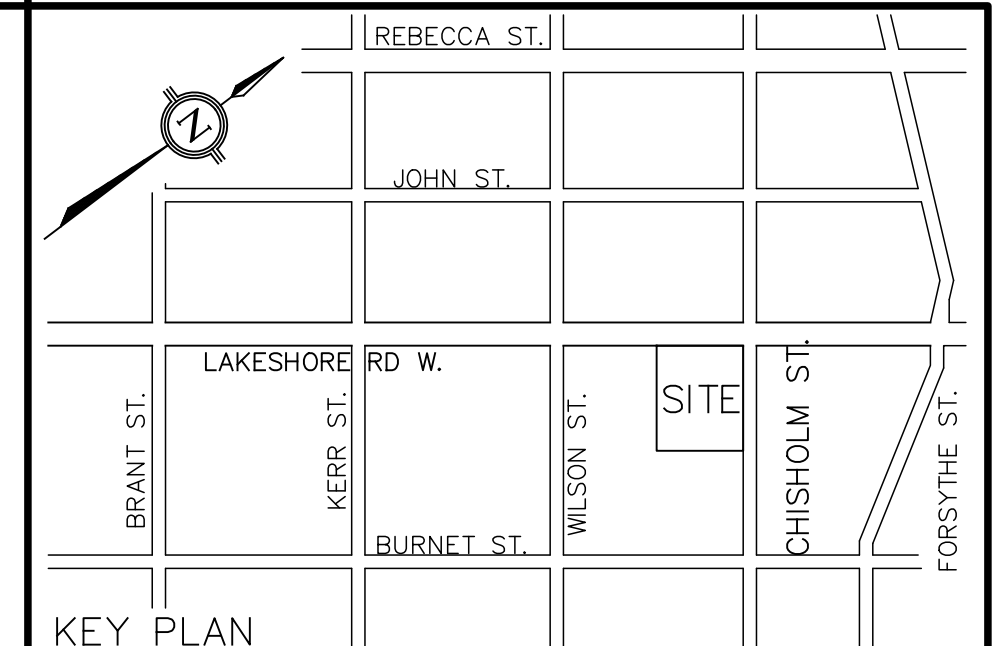
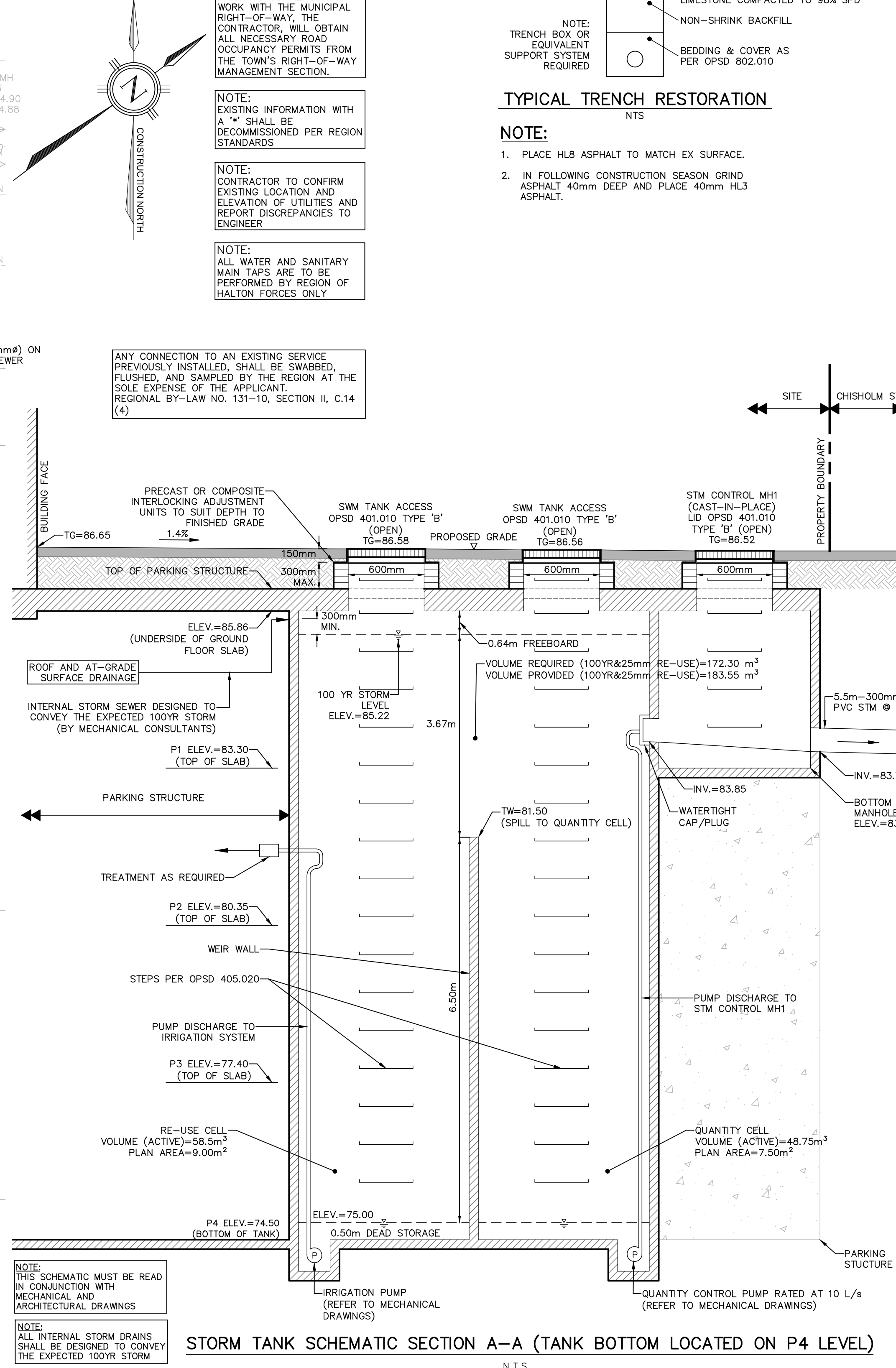
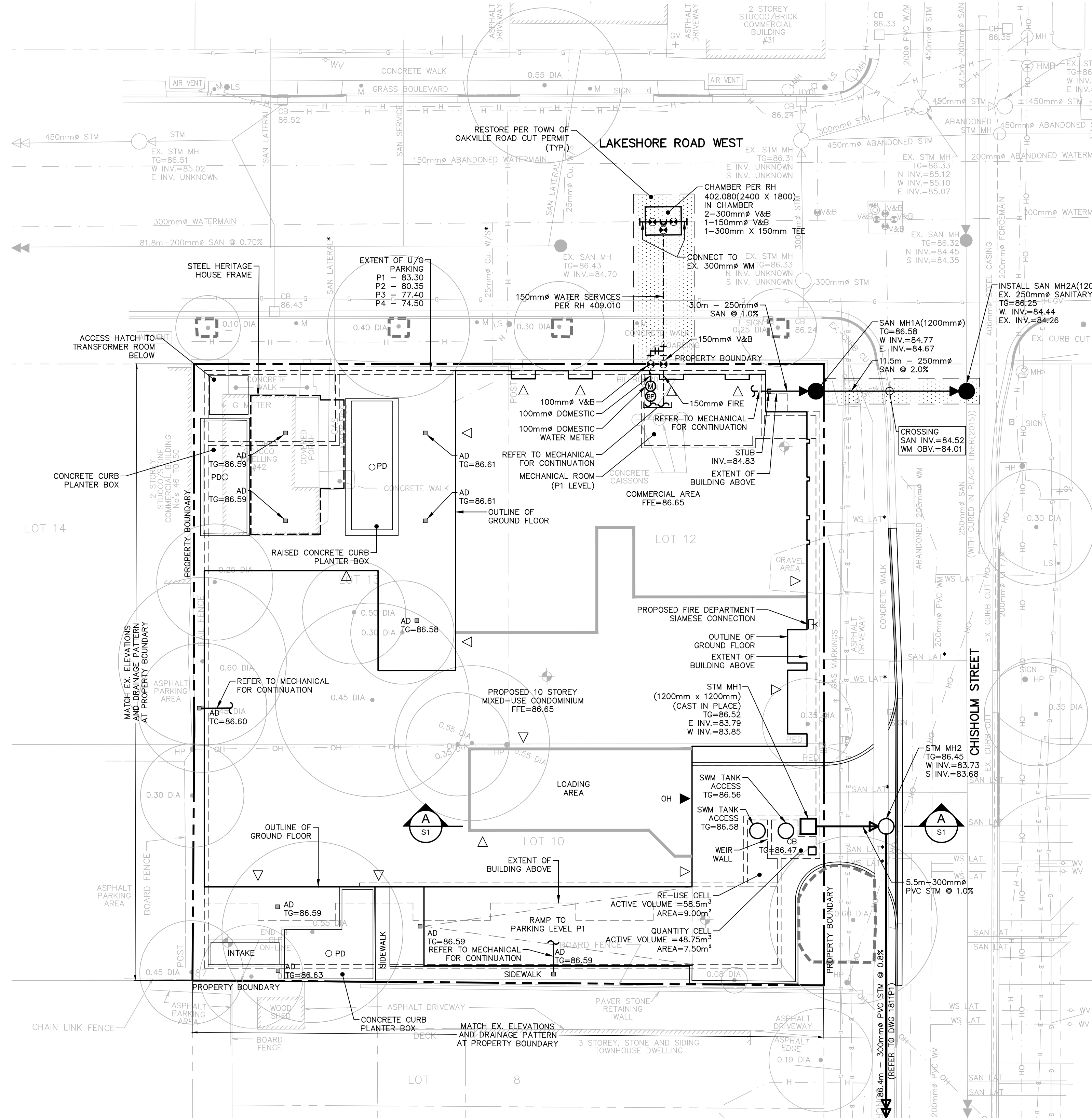
The Applicant shows he/she/they has/have the approval of the water system on private property is the responsibility of the Local Municipality. Regardless, the Applicant must ensure that the Region of Halton's standards and specifications are met. (The Water and Wastewater Linear Design Manual may be obtained from the Data Management Group at 905-825-6332) Furthermore, all water quality tests must be completed to Halton Region's satisfaction, before the water supply can be turned on.



TYPICAL TRENCH RESTORATION NTS

NOTE:

- PLACE HLB ASPHALT TO MATCH EX SURFACE.
- IN FOLLOWING CONSTRUCTION SEASON GRIND ASPHALT 40mm DEEP AND PLACE 40mm HL3 ASPHALT.



NO.	DATE	BY/DRAWN	REVISIONS
2	23/07/27	AJP/ZI	ISSUED FOR ZBA/OPA
1	23/03/28	AJP/ZI	ISSUED FOR DISCUSSION

ELEVATION NOTE
ELEVATIONS ARE OF GEODETIC ORIGIN (CGVD-1928:78) AND DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK NO. 21.

LOCAL BENCHMARK NO.1
CUT CROSS IN SIDEWALK LOCATED ON THE SOUTHWEST CORNER OF LAKESHORE ROAD WEST AND CHISHOLM STREET.
ELEVATION=86.39m

LOCAL BENCHMARK NO.2
CUT CROSS IN SIDEWALK LOCATED APPROXIMATELY 83.5m WEST OF THE CENTRELINE OF CHISHOLM STREET ON THE SOUTH SIDE OF LAKESHORE ROAD WEST.
ELEVATION=86.63m

TOPOGRAPHIC SURVEY INFORMATION IN THIS DRAWING IS FROM PLAN 22-30-877-00-A BY J.D. BARNES LTD, MAY 19, 2023.
SUBSURFACE UTILITY FIELDWORK IN THIS DRAWING IS FROM PLAN 23-46-34132 BY ONSITE LOCATES INC. MAY 16, 2023.

DESIGNED BY: APPROVED BY: _____

CONSULTANT: **TRAFALGAR ENGINEERING**
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www.trafalgareng.com

PROJECT TITLE: **FORMAT LAKESHORE LP. 10 STOREY MIXED USE BUILDING**

LOCATION: **42 LAKESHORE ROAD WEST OAKVILLE ONTARIO**

DRAWING TITLE: **PRELIMINARY SERVICING PLAN**

SCALE: 1:200 DESIGN BY: AJP PROJECT No: 1811
DRAWN BY: ZI CHECKED BY: PC PLAN No: S1
DATE: 2023-03-09 SHEET 1 OF 1