



**LEGEND**

- PROPOSED CATCHBASIN
- PROPOSED AREA DRAIN
- PROPOSED PLANTER DRAIN
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- PROPOSED FIRE HYDRANT AND VALVE
- EXISTING FIRE HYDRANT AND VALVE
- PROPOSED VALVE & BOX
- PROPOSED VALVE
- PROPOSED PLUG
- PROPOSED WATER METER
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- FUTURE WATERMAIN
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- PROPERTY LINE
- 161.92 PROPOSED FINISHED ELEVATION
- (161.92) SUBDIVISION GRADE
- [161.92] PROPERTY LINE GRADES AGREED WITH ADJACENT DEVELOPER
- 158.60 EXISTING GRADE
- PROPOSED DRAINAGE DIRECTION

NO.	DATE	BY/DRAWN	REVISIONS
5	21/08/06	SP/GL	RE-ISSUED FOR SPA
4	20/12/03	SP	ISSUED FOR REGION SERVICING PERMIT
3	20/06/08	SP/ZG	ISSUED FOR SECOND SPA SUBMISSION
2	20/06/00	SP/ZG	ISSUED FOR PERMIT
1	19/09/18	JRE/GL	ISSUED FOR SPA

**SURVEY CREDIT**  
 TOPOGRAPHIC INFORMATION SHOWN HEREON IS OBTAINED FROM SURVEY PLAN 17-30-127-01-SD DATED AUGUST 23, 2017 PREPARED BY J.D. BARNES LIMITED.

**BENCHMARK**  
 ELEVATIONS SHOWN HEREON ARE GEODETIC AND WERE DERIVED FROM MTO BENCHMARKS N00819818114 AND N00819818115 HAVING ELEVATIONS OF 188.594m AND 185.692m RESPECTIVELY.

ISSUED FOR CONSTRUCTION  
2022-01-18

**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.

**SERVICING NOTES**

- ALL UTILITIES SHALL BE BACKFILLED WITH GRANULAR BACKFILL COMPACTED TO 98% S.P.M.D.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 ROW 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.

**SANITARY SEWERS**

- ALL SANITARY SEWERS SHALL BE PVC SDR28, BEDDING PER OPSD 802.010\*.
- SANITARY MANHOLE SHALL BE AS PER OPSD 701.010\* c/w COVER PER OPSD 401.010\*.
- ASTERISK (\*) INDICATES O.P.S.D. CAN BE USED MODIFIED BY REGION OF HALTON.
- DROP MH PER OPSD 1003.020
- ALL SANITARY MH'S TO BE BENCHED THROUGHOUT TO THE CROWN OF ALL PIPES ON A VERTICAL PROJECTION FROM SPRING LINE.

**STORM SEWERS**

- ALL STORM SEWERS 600 mm AND SMALLER SHALL BE PVC SDR35 CSA B182.2 WITH BEDDING PER OPSD 802.010 UNLESS OTHERWISE NOTED.
- CATCHBASIN SHALL BE PER OPSD 705.010 c/w GRATE PER OPSD 400.100.
- ALL CB AND CBMH IN PAVED AREAS SHALL BE INSTALLED WITH 3.0m-100mm PERFORATED PIPE c/w FILTER SOCK EXTENDING OUT FROM THE CB AND LOCATED BELOW THE SUBGRADE SURROUNDED BY 50mm GRANULAR 'A'.
- ALL CB LEADS SHALL BE 250mm @ 1.0% (MIN.) UNLESS OTHERWISE NOTED.
- CATCHBASINS IN LANDSCAPE AREAS SHALL BE SUMPLESS AND WITH 'BEEHIVE' TOP.
- ALL STORM MH'S SHALL BE 1200mm @ PER OPSD 701.010 c/w COVER PER OPSD 401.010, UNLESS OTHERWISE NOTED.
- ALL STORM MH'S SHALL BE BENCHED THROUGHOUT TO THE SPRING LINE OF ALL PIPES.
- ALL AREA DRAIN (AD) LEADS SHALL BE 150mm @ 1.0% UNLESS OTHERWISE NOTED.

**WATERMAIN NOTES**

- 100mm AND LARGER SERVICES SHALL BE PVC, C-900, CLASS 150, SDR18 c/w MECHANICAL RESTRAINTS & TRACER WIRE PER REGION OF HALTON REQUIREMENTS.
- BEDDING ON WATER SERVICE SHALL BE PER OPSD 802.010\*.
- VALVE AND BOX FOR 100mm TO 300mm WATER SERVICE PER REGION OF HALTON STDS.
- COVER SHALL BE 1.7m MIN. UNLESS OTHERWISE NOTED.
- CONNECTION TO EXISTING WATERMAIN SHALL BE PER REGION OF HALTON STD RH 409.01.
- 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 11). 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
- 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.
- 20mm TO 25mm WATER METERS SHALL BE PER REGION HALTON STD. RH-501.010 AND RH 501.011. 38mm AND 50mm METERS SHALL BE PER RH 502.010 AND 502.011. 75mm TO 200mm METERS SHALL BE PER RH 504.010 AND 504.011.

**GRADING NOTES**

- SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE AND MUD PAD ETC. SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION, CHECKED AND REPAIRED ON A REGULAR BASIS, AND LEFT IN PLACE UNTIL PAVING AND LANDSCAPING IS COMPLETED. SEDIMENT CONTROL WHEN REMOVED SHALL BE DISPOSED OFF-SITE.
  - ALL TOPSOIL SHALL BE STRIPPED PRIOR TO GRADING.
  - ALL FILL PLACEMENT SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
  - RETAINING WALLS WITH A HEIGHT GREATER THAN 0.6m ARE TO BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER. WHEN COMPLETED THE RETAINING WALLS SHALL BE CERTIFIED BY A PROFESSIONAL ENGINEER.
  - ALL DISTURBED AREAS TO BE RESTORED WITH 200mm TOPSOIL AND SOD.
  - ALL DISTURBED AREAS WITH IN PUBLIC R.O.W TO BE REINSTATED TO THE SATISFACTION OF THE ENGINEERING & CONSTRUCTION DEPARTMENT. EXISTING BLVD. AREAS TO BE REINSTATED WITH 200mm TOPSOIL AND SOD.
  - REFER TO GEOTECHNICAL REPORT PREPARED BY B.I.G. CONSULTING INC. FOR PAVEMENT STRUCTURE
- PAVEMENT STRUCTURE (ABOVE PARKING GARAGE ROOF)**
- HL-3 40mm
  - HL-8 70mm
  - GRANULAR 'A' 75mm (MINIMUM)
- PAVEMENT STRUCTURE (ON GRADE)**
- HL-3 40mm
  - HL-8 70mm
  - OPSS GRANULAR 'A' 150mm
  - OPSS GRAN 'B' (TYPE 1) 300mm

FILENAME: P:\1688 Block 1 Trillium Drawings\DWG\1688GS.dwg  
 PLOTDATE: Aug 08, 2021 11:20am

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

SIGNED: \_\_\_\_\_ DATED: \_\_\_\_\_  
 INFRASTRUCTURE PLANNING & POLICY

The Applicant should be aware that 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 905-825-6032) Furthermore, all water quality tests must be completed to Halton Region's satisfaction, before the water supply can be turned on.

DESIGNED BY:  S. L. POTTER  
 APPROVED BY: \_\_\_\_\_

**TRAFALGAR ENGINEERING**  
 #1-481 MORDEEN ROAD, OAKVILLE, ON, L6K 3W6  
 www.trafalgareng.com

PROJECT TITLE: **DISTRIKT TRAILSIDE DEVELOPMENTS**  
 MULTI-UNIT RESIDENTIAL CONDO DEVELOPMENT

LOCATION: **DISTRIKT TRAILSIDE WEST**  
 405 DUNDAS ST. W AND 3010 & 3020 TRAILSIDE DR  
 OAKVILLE

DRAWING TITLE: **GRADING AND SERVICING PLAN**

SCALE	1:300	DESIGN BY	JRE	PROJECT NO.	1668
DRAWN BY	GL	CHECKED BY	JN/SP	PLAN No.	GS1
DATE	2019/02/22	SHEET	1 OF 2		

SP9894  
 S.P.1319.001/01