GENERAL NOTES

1. ALL ROADS, STORM SEWERS AND OTHER MISCELLANEOUS ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF OAKVILLE REQUIREMENTS. SANITARY SEWERS AND WATERMAINS SHALL BE IN ACCORDANCE WITH THE REGION OF HALTON REQUIREMENTS. IN ABSENCE OF LOCAL STANDARDS, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS SHALL BE USED, AS MODIFIED BY THE LOCAL MUNICIPALITY. ALL MATERIALS SHALL MEET OR EXCEED ONTARIO PROVINCIAL STANDARDS AND TOWN STANDARD SPECIFICATIONS.
2. ONTARIO PROVINCIAL STANDARD DRAWINGS (O.P.S.D.) ARE TO BE USED WHEN INDICATED (EXAMPLE: O.P.S.D. 600.04) TOWN OF OAKVILLE STANDARDS ARE USED FOR ROADS, STORM SEWERS AND MISCELLANEOUS WHEN INDICATED (EXAMPLE: 6-1). THE REGION OF HALTON STANDARDS ARE USED ON WATERMAINS AND SANITARY SEWERS AS INDICATED (EXAMPLE: RH 400.01).
3. ALL INFORMATION SHOWN ON THE ENGINEERING DRAWINGS REGARDING THE SIZE AND LOCATION OF EXISTING UTILITIES AND/OR SERVICES HAS NOT BEEN VERIFIED IN THE FIELD. BEFORE STARTING WORK, THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND LOCATION OF SAID UTILITIES, PROTECTING AND MAINTAINING UTILITIES DURING CONSTRUCTION, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
4. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.
5. HOARDING OR SNOW FENCE SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION AND SHALL REMAIN IN PLACE AND IN GOOD REPAIR THROUGHOUT THE CONSTRUCTION AND GRADING PHASE AND REMOVED ONLY AS DIRECTED BY THE ENGINEER.
6. PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL ALL TOPSOIL IS TO BE REMOVED AND SUBGRADE IS TO BE CERTIFIED BY THE SOILS ENGINEER.
7. THE CONTRACTOR SHALL NOT DAMAGE TREES OUTSIDE AREAS INDICATED TO BE CLEARED AND GRUBBED.
8. TRAFFIC DETOURS AND SIGNAGE TO BE APPROVED BY OAKVILLE TRAFFIC DEPARTMENT. MAINTAIN ONE LANE OPEN TO TRAFFIC AT ALL TIMES.
9. TOWN OF OAKVILLE AND REGION OF HALTON STANDARD DRAWINGS, O.P.S.S. AND O.P.S.D. WITH REGIONAL AMENDMENTS FOR SANITARY SEWERS AND WATERMAINS SHALL CONSTITUTE PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT.
10. ALL WATERMAIN AND WASTEWATER MAIN APPURTENANCES, MATERIALS AND COMPONENTS SHALL COMPLY WITH THE REGION'S APPROVED MANUFACTURER'S PRODUCT LIST FOR WATER SYSTEMS AND WASTEWATER SYSTEMS. ALTERNATIVE MATERIALS MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS FIRST BEEN OBTAINED FROM THE CITY/TOWN ENGINEER AND/OR THE REGIONAL COMMISSIONER OF PUBLIC WORKS.
11. NO BLASTING IS PERMITTED.
12. MANHOLE AND VALVE CHAMBER COVERS ARE TO BE SET FLUSH WITH BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE PRIOR TO INSTALLING TOP LIFT OF ASPHALT.
13. ALL TRENCHES WITHIN EXISTING RIGHT-OF-WAY ARE TO BE BACKFILLED IN ACCORDANCE WITH TOWN OF OAKVILLE REQUIREMENTS.

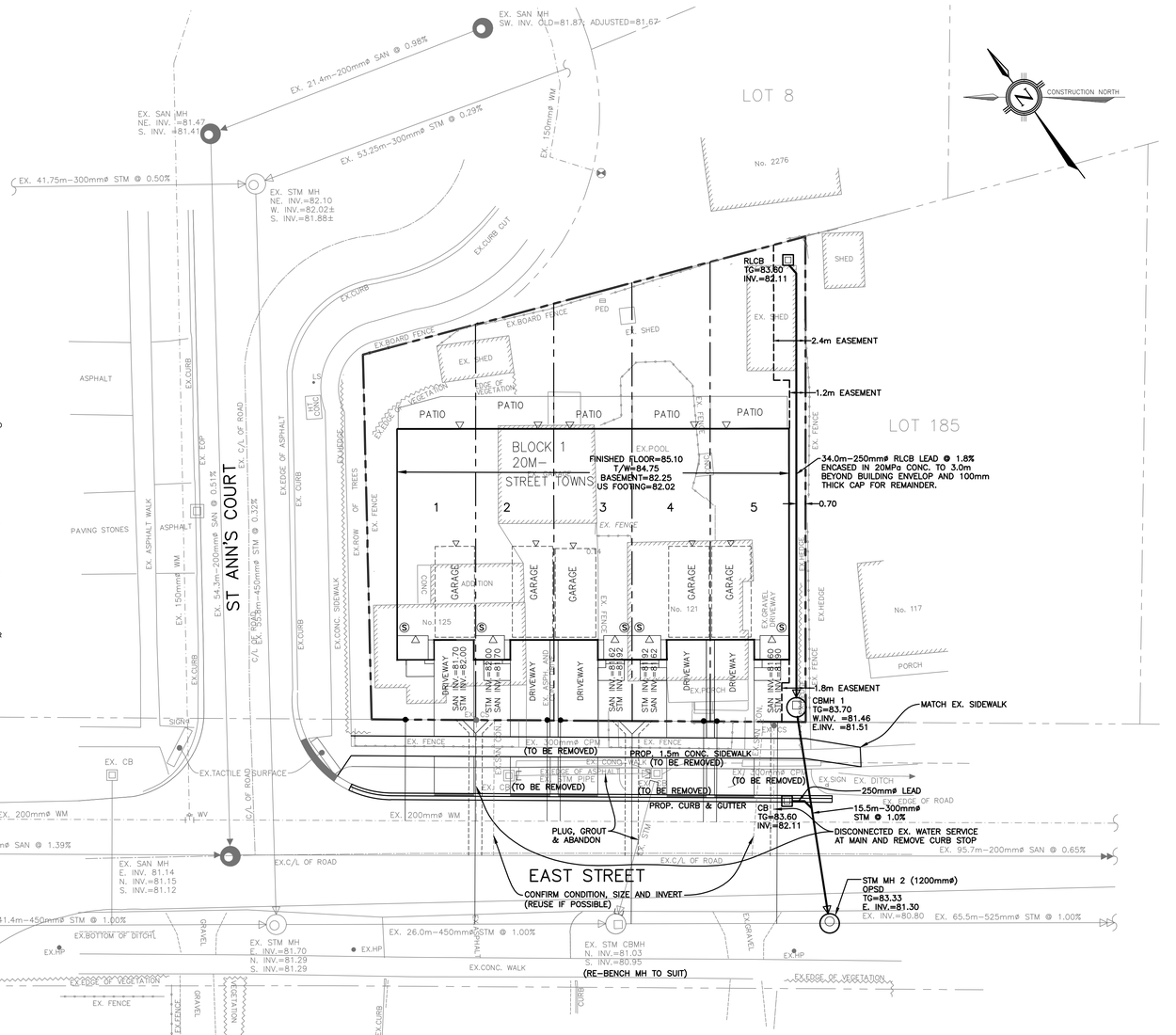
WATERMAINS

1. WATERMAINS 150MM TO 300MM DIAMETER TO BE P.V.C. CL235 (DR-18) AS PER AWWA C900 (CSA B137.3) WITH GASKETED JOINTS.
2. WATER SERVICE CONNECTIONS TO BE AS PER O.P.S.D. 1104.01. AS AMENDED BY REGION OF HALTON PIPE FOR ALL SERVICE CONNECTIONS UP TO 50MM DIA. SHALL BE TYPE "K" SOFT COPPER TUBING MEETING AWWA C800 (LATEST EDITION).
3. A MIN. HORIZONTAL SEPARATION OF 2.5M MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR STORM SEWERS, INCLUDING SERVICE LATERALS.
4. A MIN. VERTICAL SEPARATION OF 0.15M BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED IF WATERMAIN CROSSES ABOVE SEWER OR 0.50M IF WATERMAIN CROSSES BELOW SEWER.
5. WATERMAIN BEDDING AND COVER TO BE SUITABLE GRANULAR BEDDING MATERIAL AS PER O.P.S.D. 802.010 AND O.P.S.S. 401.
6. ALL HYDRANTS AS PER O.P.S.D. 1105.01 TO HAVE STEAMER CONNECTIONS. HYDRANTS TO BE SUPPLIED WITH:
   a) TWO (2) 63.5MM (2½") WITH CSA STANDARD THREAD, 63.5MM I.D., 7.9.4 O.D., 5 THREADS PER 25MM, 31.75MM SQUARE OPERATING NUT; AND
   b) ONE (1) 100MM (4") STORZ PUMPER CONNECTION AS PER CAN/ULC #S-520, 31.75MM SQUARE OPERATING NUT, AND STORZ CAP PAINTED GLOSS BLACK.
   c) SECONDARY VALVE AND ANCHOR TEE.
7. HYDRANTS SHALL BE INSTALLED SUCH THAT THE ROD STEM LENGTH SHALL NOT EXCEED 1.7M MEASURED FROM THE BREAK-OFF FLANGE. IF HYDRANT BARREL LENGTH EXCEEDS 1.7M THEN A HYDRANT THAT CAN BE RAISED FROM THE BOTTOM WITHOUT INCREASING ROD LENGTH IS TO BE USED.
8. ALL METALLIC WATERMAINS, FITTINGS, AND APPURTENANCES SHALL BE INSTALLED WITH A MINIMUM OF ONE ANODE PER LENGTH PER PIPE AND ONE ANODE PER ELECTRONICALLY ISOLATED APPURTENANCE AND INSTALLED IN ACCORDANCE WITH OPSS 442 AND OPSD 1109.010 AND 1109.011. ANODE INSTALLATION IS NOT REQUIRED WITHIN VALVE CHAMBERS, DRAIN CHAMBERS, AIR RELEASE CHAMBERS OR SWAB PORTS.
9. ALL SACRIFICIAL ANODES SHALL CONFORM TO A.S.T.M. B-418 TYPE II AND SHALL BE MADE OF HIGH GRADE ELECTROLYTIC ZINC, 99.99% PURE.
10. ALL WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.
11. FOR ALL ANODES CONNECTED TO NEW PIPE, FITTINGS OR TO EXISTING METALLIC WATERMAINS, A CADWELDER AND CA-15 OR EQUIVALENT CARTRIDGE SHALL BE USED. ANODE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
12. WHERE NEW PIPE IS METALLIC OR OTHERWISE TO BE CONNECTED TO EXISTING DUCTILE IRON OR CAST IRON PIPE A 14.5KG MAGNESIUM ANODE IS TO BE CONNECTED TO THE FIRST LENGTH OF EXISTING PIPE, AS PER OPSS 442 AND OPSD 1109.010 AND 1109.011
13. ALL VALVES TO OPEN LEFT (COUNTER-CLOCKWISE), BE OF THE APPROVED TYPE WITH NON-RISING STEM AND SHALL HAVE 50MM SQUARE STANDARD AWWA OPERATING NUT.
14. ALL PLUGS, CAPS, TEES, BENDS, AND OTHER APPURTENANCES SHALL BE MECHANICALLY RESTRAINED AS PER MANUFACTURER'S SPECIFICATIONS. MECHANICAL THRUST RESTRAINT DEVICES SHALL HAVE THIRD PARTY TESTING, APPROVALS FROM THE UNDERWRITERS LABORATORY (UL) AND FACTORY MUTUAL (FM), AND BE INCLUDED IN HALTON REGION'S APPROVED MANUFACTURER'S PRODUCT LIST FOR WATER SYSTEMS.
15. RECOMMENDED RESTRAINED LENGTHS ARE AS FOLLOWS:

RECOMMENDED RESTRAINED LENGTHS

NOM. PIPE SIZE (mm)	45° BEND	22.5° BEND	11.25° BEND	SIZE ON SIZE TEE	VALVE/ DEAD-END
100	1.19m	0.58m	0.27m	Br. Only	6.83m
150	1.71m	0.82m	0.40m	Br. Only	9.72m
200	2.19m	1.07m	0.52m	0.06m	12.65m
250	2.68m	1.28m	0.64m	2.83m	15.39m
300	3.17m	1.52m	0.76m	1.89m	18.17m

NOTE:
ANY JOINTS THAT FALL WITHIN THESE RECOMMENDED LENGTHS SHOULD BE RESTRAINED. (ON EACH SIDE OF BENDS, ON THE BRANCH OUTLET OF TEES, AND BEFORE DEAD-ENDS).



WATERMAINS Cont'd

REDUCING TEES *

NOM. PIPE SIZE (mm)	RESTRAINING LENGTH	NOM. PIPE SIZE (mm)	RESTRAINING LENGTH
150x100	Br. Only	250x200	Br. Only
200x100	Br. Only	300x100	Br. Only
250x150	Br. Only	300x150	Br. Only
250x100	Br. Only	300x200	Br. Only
250x150	Br. Only	300x250	0.37m

* RECOMMENDED RESTRAINED LENGTHS FOR TEES ARE FOR THE BRANCH OUTLET AND ASSUME A MINIMUM 3 METRE SECTION OF PIPE ATTACHED TO EACH SIDE OF THE RUN. RESTRAINT DEVICES SHOULD ALSO BE INSTALLED ON BOTH RUN JOINTS OF THE TEE ITSELF.

VERTICAL OFFSETS **

NOM. PIPE SIZE (mm)	45° VERT OFFSET	22.5° VERT OFFSET	11.25° VERT OFFSET
100	2.96m/1.04m	1.40m/0.49m	0.18m/0.64m
150	4.21m/2.23m	2.01m/0.70m	0.27m/0.88m
200	5.52m/1.92m	2.65m/0.91m	0.37m/1.16m
250	6.71m/2.35m	3.23m/1.13m	0.43m/1.43m
300	7.96m/2.77m	3.18m/1.31m	0.52m/1.68m

** FIRST NUMBER IS THE RECOMMENDED RESTRAINED LENGTH ON EACH SIDE OF THE DOWN BEND(S), THE SECOND NUMBER IS THE LENGTH FOR EACH SIDE OF THE RUN. RESTRAINT DEVICES SHOULD ALSO BE INSTALLED ON BOTH RUN JOINTS OF THE TEE ITSELF. IN THE EVENT THAT THE LENGTHS OVERLAP, ALL JOINTS OF THE OFFSET SHOULD BE RESTRAINED (LOW SIDE DEPTH = 3.048m)

16. WHERE WATERMAIN IS PLACED IN FILL OR IN PREVIOUSLY DISTURBED GROUND, ALL JOINTS TO BE MECHANICALLY RESTRAINED.
17. MINIMUM DEPTH OF COVER OVER WATERMAIN SHALL BE 1.70M MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED GRADE.
18. THE DEPTH OF WATER SERVICES AT PROPERTY LINE SHOULD BE A MINIMUM OF 1.7M AND A MAXIMUM OF 2.0M. THE DISTANCE BETWEEN THE GROUND ELEVATION AND THE TOP OF THE ROD SHOULD BE BETWEEN 0.5M AND 1.0M.

WATERMAINS Cont'd

19. WATER SERVICES CROSSING THE STORM SEWER TO HAVE MIN. 1.70M OF COVER. WHERE THIS CANNOT BE ACHIEVED, WATER SERVICE IS TO CROSS UNDER SEWER.
20. GATE VALVES CONFORMING TO A.W.W.A. C509 OR C515 ARE REQUIRED ON WATERMAINS 300MM AND UNDER. LINE GATE VALVES SHALL HAVE SOREW TYPE VALVE BOXES.
21. ALL WATERMAIN FITTINGS SHALL HAVE MECHANICAL JOINTS. VALVES IN CHAMBERS TO BE FLANGED.
22. PIPE BARREL BENDING/DEFLECTION SHALL NOT BE ALLOWED. PIPE JOINT DEFLECTIONS ARE DISCOURAGED (UTILIZE STANDARD BENDS TO ACHIEVE DESIRED VERTICAL AND HORIZONTAL PIPE ALIGNMENT). HOWEVER, IF ABSOLUTELY NECESSARY THE MAXIMUM ALLOWABLE PIPE JOINT DEFLECTION SHALL BE 50% OF THE MANUFACTURER'S SPECIFICATIONS.
23. TRACER WIRE IS TO BE INSTALLED ON ALL NEW INSTALLATIONS OF PVC WATERMAIN PIPE FOR LOCATING PURPOSES. A SOLID 10 GAUGE T.W.U. COPPER WIRE IS TO BE INSTALLED ALONG THE TOP OF THE PIPE, STRAPPED TO THE PIPE AT 6M INTERVALS.

WATERMAINS Cont'd

24. THE INSPECTOR MAY TEST THE TRACING WIRE FOR CONDUCTIVITY. THE TRACER WIRE SHALL BE INSTALLED BETWEEN EACH VALVE AND/OR THE END OF THE NEW WATERMAIN TO ENSURE A CONTINUOUS SIGNAL FOR LOCATING THE MAIN. JOINTS IN THE TRACER WIRE BETWEEN VALVES IS DISCOURAGED, BUT WHEN NECESSARY, MUST BE WATER- PROOFED (REFER TO O.P.S.D. 1109.025) AND DONE IN SUCH A WAY TO ENSURE ELECTRICAL CONDUCTIVITY. AT EACH VALVE, A LOOP OF WIRE IS TO BE BROUGHT UP OUTSIDE THE VALVE BOX AS PER HALTON STANDARD DRAWING RH 406.010. TRACER WIRE FOR HORIZONTAL DIRECTIONAL DRILLING AND PIPE BURSTING INSTALLATION SHALL BE IN ACCORDANCE WITH HALTON REGION'S AMENDMENTS TO O.P.S.S. IF THE TRACING WIRE IS NOT CONTINUOUS FROM VALVE TO VALVE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE WIRE.
25. ALL WATER CUSTOMERS SUPPLIED BY A WATERMAIN TO BE SHUT DOWN SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS IN ADVANCE OF THE SHUT DOWN AS PER REGION OF HALTON SPECIFICATIONS. NOTIFICATION SHALL TAKE PLACE UNDER THE ENGINEER'S DIRECTION.
26. OPERATING OF EXISTING WATERMAINS SHALL BE BY REGION OF HALTON STAFF ONLY.

STORM SEWERS

1. ALL STORM SEWERS 600mm DIA. OR SMALLER SHALL BE RIBBED PVC PIPE IN ACCORDANCE WITH CSA B182.4. BEDDING SHALL BE O.P.S.D. 802.010. BEDDING MATERIAL SHALL BE CRUSHED STONE BASE (HL-6) GRAVEL AGGREGATE) AND A GRANULAR "C" COVER MATERIAL.
2. ALL STORM SEWERS LARGER THAN 600mm DIAMETER SHALL BE REINFORCED CONCRETE PIPE (CLASS AS SHOWN) IN ACCORDANCE WITH CSA A257.2. BEDDING SHALL BE O.P.S.D. 802.030. BEDDING MATERIAL SHALL BE CRUSHED STONE BASE (HL-6 GRAVEL AGGREGATE) AND A GRANULAR "C" COVER MATERIAL
3. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ADDITIONAL BEDDING AND/OR STRONGER PIPE IF ACTUAL TRENCH WIDTHS EXCEED DESIGN WIDTHS.
4. MANHOLE SIZES AS SHOWN.
5. SURROUND ALL MANHOLES WITH A MINIMUM OF 1.0m COMPACTED GRANULAR "C"BACKFILL. ALL CATCHBASINS TO HAVE COMPLETE, COMPACTED GRANULAR "C" BACKFILL SURROUND.
6. CATCHBASIN (CB) PER O.P.S.D. 705.010 C/W 250mm DIA. LEAD. DOUBLE CATCHBASINS (DCB) PER O.P.S.D. 705.020 C/W 300mm DIA. LEAD. CATCHBASINS TO BE FITTED WITH INLET CONTROL DEVICE AS SHOWN. REAR LOT CATCHBASINS TO BE SUMPLESS PER TOWN STD 3-1 C/W BEEHIVE GRATE PER TOWN STD 5-2.

STORM Cont'd

7. FOR COMMON TRENCH DETAILS REFER TO REGION STD. RH 302.01.
8. DROP STRUCTURES TO BE TOWN OF OAKVILLE STD. 2-2.
9. BENCHING IN MANHOLES IS TO EXTEND UP TO THE SPRINGLINE OF THE PIPE.
10. DITCH INLETS TO BE AS PER O.P.S.D. 705.030 3:1 GRATE.
11. CATCHBASIN FRAME AND GRATES FOR ROADS TO BE AS PER O.P.S.D. 400.11.
12. SERVICE CONNECTION AT THE STREET LINE IS TO BE HIGHER THAN THE SANITARY CONNECTION AT THAT POINT.
13. ALL ENDS OF SERVICE CONNECTIONS SHALL BE MARKED WITH 100x50 LUMBER MARKERS PLACED FROM THE INVERT OF THE SERVICE TO 1.0m ABOVE GROUND LEVEL AND PAINTED WHITE.
14. SAFETY GRATINGS SHALL BE PROVIDED IN ALL MANHOLES WHEN THE DEPTH OF THE MANHOLE EXCEEDS 5.0m.

SANITARY SEWERS

1. SANITARY MANHOLES AS PER O.P.S.D. 701.010 WITH FRAMES AND COVERS AS PER O.P.S.D. 401.010 TYPE "A" (AS AMENDED RESPECTIVELY BY THE REGION OF HALTON) UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. BENCHING IN MANHOLES TO BE AS PER O.P.S.D. 701.021 AS AMENDED BY THE REGION OF HALTON. BENCHING IN SANITARY MANHOLES TO BE TO THE OBVERT OF THE PIPE.
3. SANITARY SEWER PIPE SHALL BE PVC SDR35 (GREEN IN COLOUR) CONFORMING TO CSA B182.2 UNLESS OTHERWISE NOTED.
4. SANITARY SERVICE CONNECTIONS TO BE 125mm DIA. FOR SINGLE FAMILY DWELLINGS AND ROWED TOWNHOUSES. COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL LATERALS SHALL BE A MINIMUM OF 150mm DIAMETER. SANITARY SERVICE CONNECTIONS TO BE MINIMUM 2% GRADE AND SHALL BE NON-WHITE IN COLOUR. FOR PVC LATERAL CONNECTIONS, PIPE SHALL BE GREEN IN COLOUR AND DR28 SHALL BE USED.
5. SERVICES TO BE MIN. 2.15M AND MAX. 2.75M DEEP AT PROPERTY LINE. RISERS SHALL BE USED WHERE NOTED AS PER O.P.S.D. 1006.010.
6. GRANULAR "A" BEDDING AND COVER ON ALL SEWERS AND CONNECTIONS TO BE AS PER O.P.S.D. 802.010 UNLESS NOTED OTHERWISE, WITH GRANULAR "B" BACKFILL.
7. GRANULAR BACKFILL AROUND MANHOLES SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 95% S.P.D.

ROADS

1. ALL ROAD BASE AND SUB-BASE MATERIALS SHALL BE CRUSHER RUN LIMESTONE MEETING OPSS TYPE II SPECIFICATIONS.
2. ANY AREAS WITHIN R.O.W. WHICH REQUIRE FILL IN EXCESS OF 0.30m ARE SUBJECT TO COMPACTION TESTS AND SUCH TESTS MUST SHOW A MIN. COMPACTION OF 98% S.P.M.D.D. AT ALL DEPTHS. ALL EARTHWORKS MUST COMPLY WITH GEOTECHNICAL INVESTIGATION PREPARED BY SOIL-MAT ENGINEERS AND CONSULTANTS LTD. DATED JULY 13, 2012 (PROJ.: SM 124590-G).
3. GRANULAR BASE SHALL BE COMPACTED TO A MIN. OF 100% SPMDD IN LIFTS OF 150mm OR LESS.
4. ASPHALT MATERIALS SHALL BE ROLLED AND COMPACTED TO A MIN. OF 97% MARSHALL BULK DENSITY.
5. PRIOR TO PLACEMENT OF GRANULAR COURSES, THE SUBGRADE SHALL BE PROOF-ROLLED AND ALL LOOSE, SOFT OR UNSTABLE AREAS REMOVED AS DIRECTED BY THE ENGINEER.
6. ALL CURB AND GUTTERS SHALL BE PER OPSD 600.070 UNLESS OTHERWISE NOTED.
7. PERFORATED SUBDRAINS C/W FILTER SOCK PER TOWN STD. 7-60, SHALL BE INSTALLED UNDER ALL CURBS.
8. SIDEWALK TO OPSD 310.010.
9. AN EXTRA 150mm THICKNESS GRANULAR 'B' SHALL BE ADDED AT ARTERIAL AND INDUSTRIAL ROAD INTERSECTIONS. THIS EXTRA DEPTH SHALL BE EXTENDED FOR A MINIMUM OF 15.0m FROM THE PROPERTY LINE OF THE INTERSECTING STREET (NOT TO EXCEED EXISTING BASE).
10. TOP COURSE ASPHALTIC CONCRETE SHALL BE PLACED ONLY AFTER ADJACENT BUILDINGS (HOMES, INDUSTRIAL, COMMERCIAL, ETC.) HAVE BEEN CONSTRUCTED AND ONLY WITH THE CONSENT OF THE DIRECTOR OF ENGINEERING AND CONSTRUCTION.
11. SIDEWALK RAMPS AT INTERSECTIONS AND MID-BLOCK CROSSINGS SHALL CONFORM TO OPSD 310.030 WITH THE REQUIREMENT THAT THE RAMP GRADIENT SHALL NOT EXCEED 5%.

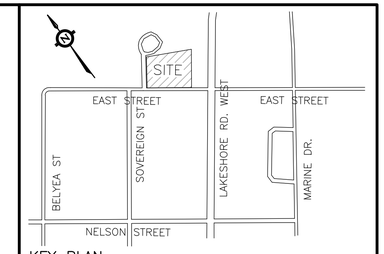
ASPHALT AND GRANULAR REQUIREMENTS:	AT INTERSECTIONS:
40mm HL3 (PGAC 58-28)*	40mm HL3 (PGAC 58-28)*
80mm HL8 (PGAC 58-28)*	80mm HL8 (PGAC 58-28)*
150mm GRANULAR 'A'*** (a)	150mm GRANULAR 'A'*** (a)
350mm** GRANULAR 'B'*** (b)	500mm** GRANULAR 'B'*** (b)

* ALL HOT LAID ASPHALTIC CONCRETE SHALL MEET OR EXCEED OPSS 1150

*** ALL GRANULAR 'A' AND GRANULAR 'B' MATERIALS - QC TESTING SHALL BE UNDERTAKEN BY THE CONTRACTOR COMPLETING THE WORKS AS PER THE RELEVANT OPS SPECIFICATIONS. ALL PROJECT ADMINISTRATORS AND DEVELOPERS ARE REQUIRED TO PERFORM QA TESTING PER THE RELEVANT OPS SPECIFICATIONS AND THE RESULTS OF THE QA TESTING WILL DETERMINE THE ACCEPTANCE OR REJECTION OF PLACED MATERIALS.

(a) GRANULAR 'A' TO MEET OR EXCEED OPSS 1010 AND SHALL BE QUARRIED. BEDROCK OR RECYCLED CONCRETE MATERIAL. 30% RAP MAY BE PRESENT IN GRANULAR 'A' MATERIAL. STEEL SLAG NOT PERMITTED IN GRANULAR 'A'.

(b) GRANULAR 'B' TYPE II SHALL BE 100% QUARRIED BEDROCK MEETING OR EXCEEDING OPSS 1010. GRANULAR 'B' TYPE I COMPRISED OF 100% RECYCLED CONCRETE MEETING OR EXCEEDING OPSS 1010 MAY BE USED IN LIEU OF GRANULAR 'B' TYPE II. NEITHER FURNACE SLAG NOR NICKEL SLAG IS PERMITTED FOR USE IN GRANULAR 'B' TYPE II OR TYPE I MATERIAL.



KEY PLAN

LEGEND

- PROPOSED CATCHBASIN
- PROPOSED DOUBLE CATCHBASIN
- PROPOSED STORM MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED FIRE HYDRANT AND VALVE
- PROPOSED VALVE & BOX
- PROPOSED PLUG
- PROPOSED SUMP PUMP
- PROPOSED SANITARY SERVICES (125mmø)
- PROPOSED STORM SERVICES (150mmø)
- PROPOSED WATER SERVICE (25mmø) C/W CURB STOP
- OVERLAND FLOW DIRECTION
- PROPERTY LINE
- EX. STORM MANHOLE
- EX. SAN MANHOLE
- EX. STORM SEWER
- EX. SANITARY SEWER

BENCHMARK

1. ALL ELEVATIONS SHOWN HEREON ARE GEODETIC AND WERE DERIVED FROM THE TOWN OF OAKVILLE BENCHMARK N° 117 HAVING AN ELEVATION OF 83.984m AND N° 123 HAVING AN ELEVATION OF 90.583m.
2. THE TOPOGRAPHIC DETAIL SHOWN HEREON WAS ACQUIRED ON MONTH FEB, 2018 BY J. D. BARNES LIMITED, ONTARIO LAND SURVEYORS.

NO.	DATE	BY/DRAWN	REVISIONS
1	FEB/16/18	PC/ZG	ZBA AND PLAN OF SUBDIVISION RESUBMISSION

CAD FILE: 1635S.dwg | PLOT SCALE: 1:1 | PLOT DATE: 02/23/18

Scale 0 2.5 5.0 7.5 10 1:200

Municipal
APPROVED IN PRINCIPLE SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO TOWN OF OAKVILLE STANDARDS AND SPECIFICATIONS.

Date:
Manager of Development Services

Regional Approval
DESIGN OF WATER AND WASTEWATER SERVICES APPROVED SUBJECT TO DETAIL CONSTRUCTION CONFORMING TO HALTON REGION STANDARDS & SPECIFICATIONS & LOCATION APPROVAL FROM LOCAL MUNICIPALITY.

SIGNED: DATE:
LEGISLATIVE & PLANNING SERVICES DEPARTMENT

Bell ☐ Hydro
Gas ☐ Cable
Traf. ☐ Water

LICENSED PROFESSIONAL ENGINEER P. CIFONI PROVINCE OF ONTARIO

TRAFALGAR ENGINEERING LTD.
481 MORDEN ROAD OAKVILLE, ONTARIO L6K 3W6
TEL: (905) 338-3366 FAX: (905) 338-7734
tel@trafalgareng.com

Municipality
TOWN OF OAKVILLE
Halton REGION

PROJECT TITLE
2593611 ONTARIO INC.
AND DM OAKVILLE INVESTMENTS INC.
PLAN OF SUBDIVISION
24T-17005/1728; ZBA 1728.63

LOCATION
121 AND 125 EAST STREET
OAKVILLE, ONTARIO

DRAWING TITLE
GENERAL SERVICING PLAN

SCALE	1:200	DESIGN BY	PC	PROJECT No.	1635
DRAWN BY	ZG	CHECKED BY	PC	PLAN No.	S1
DATE	JAN 31 2018	SHEET	1 OF 1		

FILENAME: P:\1635\Drawings\DWG\1635S.dwg
PLOTDATE: Feb 23, 2018 - 9:15am