

STORM SEWER INSULATION DETAIL
N.T.S.

GENERAL NOTES:

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION OBTAINED FROM THEM.
2. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF CARLETON PLACE BEFORE COMMENCING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
4. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
5. ALL GREEN AREAS TO BE TREATED WITH 75MM TOPSOIL, SEED & MULCH AS SOON AS FEASIBLE.
6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF TOWN OF CARLETON PLACE AUTHORITIES.
7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER, OR THE TOWN.
8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, ELINEATORS, MARKERS AND BARRIERS.
11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE TOWN.
12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH TOWN STANDARDS AND SPECIFICATIONS.
13. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
14. CONTACT THE TOWN FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE TOWN'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOD.
15. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.

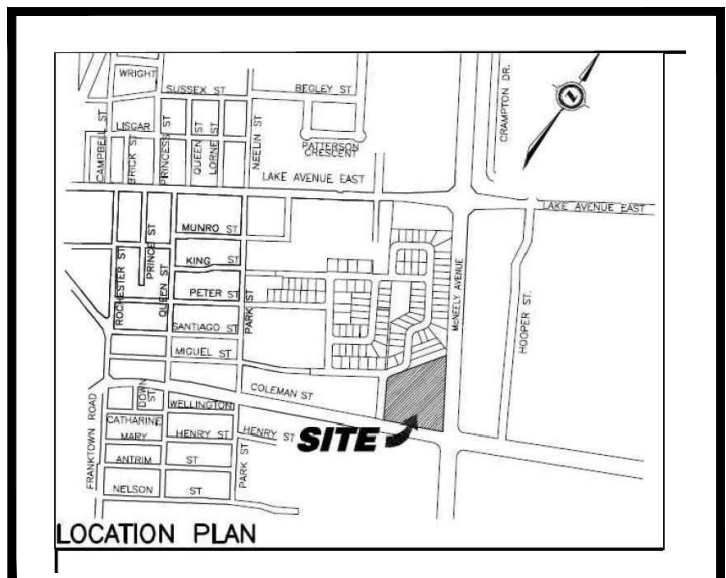
SEWER NOTES:

1. CONSTRUCT ALL SEWER AND APPURTENANCES TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS, AS WELL AS THE TOWN OF CARLETON PLACE STANDARDS AS INDICATED.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPS 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
1. BEDDING SHALL BE A MINIMUM 150MM OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
2. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER
3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
3. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SR 28 OR APPROVED EQUIVALENT.
4. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SR 35 OR APPROVED EQUIVALENT. HDPE PIPE TO BE BOSS 1000 OR APPROVED EQUIVALENT.
5. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 1.2m OF COVER WITH THERMAL INSULATION
6. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1M OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"x8" LONG MARKER.
7. ALL CATCHBASIN LEADS ARE TO BE 200mm. SLOPE TO BE 1% UNLESS OTHERWISE NOTED.
8. ANY SANITARY MANHOLES LOCATED IN STORMWATER PONDING AREAS TO BE A WATERTIGHT MANHOLE COVER AS PER OPSD 401.030.
9. STORM CATCHBASINS AND MANHOLES TO BE EQUIPPED WITH 3.0m X 150mm# PRE-WRAPPED PERFORATED PIPE WITH CAPS.

WATERMAIN NOTES:

1. CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPS STANDARDS AND SPECIFICATIONS AS WELL AS TOWN STANDARDS AS INDICATED.
2. COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE "K SOFT.
3. WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.1m.
4. IF THE WATERMAN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
5. WATERMANS TO BE C900 CLASS 150 DR-18 OR APPROVED EQUIVALENT.
6. USE SADDLE CONNECTIONS WITH MAIN (CORPORATION) STOPS FOR SIZES 50MM AND SMALLER
7. CONNECTION TO EXISTING BY TOWN, EXCAVATION, BACKFILLING AND REINSTATEMENT BY CONTRACTOR

- LEGEND:**
- x 161.14 PROPOSED GROUND ELEVATION
 - x 159.12TC TOP OF CURB ELEVATION
 - x 159.46EX. EXISTING GROUND ELEVATION
 - PROPOSED STORM MANHOLE
 - EXISTING STORM MANHOLE
 - PROPOSED SANITARY MANHOLE
 - EXISTING SANITARY MANHOLE
 - PROPOSED CATCHBASIN
 - EXISTING CATCHBASIN
 - ⊠ PROPOSED WATER VALVE
 - ⊠ EXISTING WATER VALVE
 - CS ● CURB STOP
 - ⊕ EX. HYDRANT AND VALVE
 - PROPERTY LINE
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATERMAIN
 - PROPOSED WATERMAIN
 - EXISTING STORM SEWER
 - EXISTING SANITARY SEWER
 - - - - - EXISTING SERVICES TO BE REMOVED
 - ▨ PIPE INSULATION. REFER TO DETAIL ON DRAWING SW2.



REV.	ISSUED FOR:	DATE:
3	ISSUED FOR SPA	22-11-30
2	ISSUED FOR TENDER	22-09-20
1	ISSUED FOR SPA	22-07-22

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SEAL:

BENCHMARK INFORMATION:
 ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE ONTARIO CONTROL MONUMENT No. 0011931U1988, HAVING AN ELEVATION OF 135.600 METERS.

Project:
PROPOSED RETAIL

320 COLEMAN STREET CARLETON PLACE, ONT.
 Drawing Name:

SERVICING PLAN

Proj no.: 221332 Date: NOVEMBER 30, 2022
 Drawn by: ZYX Scale: 1:400
 Checked by: GKR

North:
 Drawing No.:
SW2