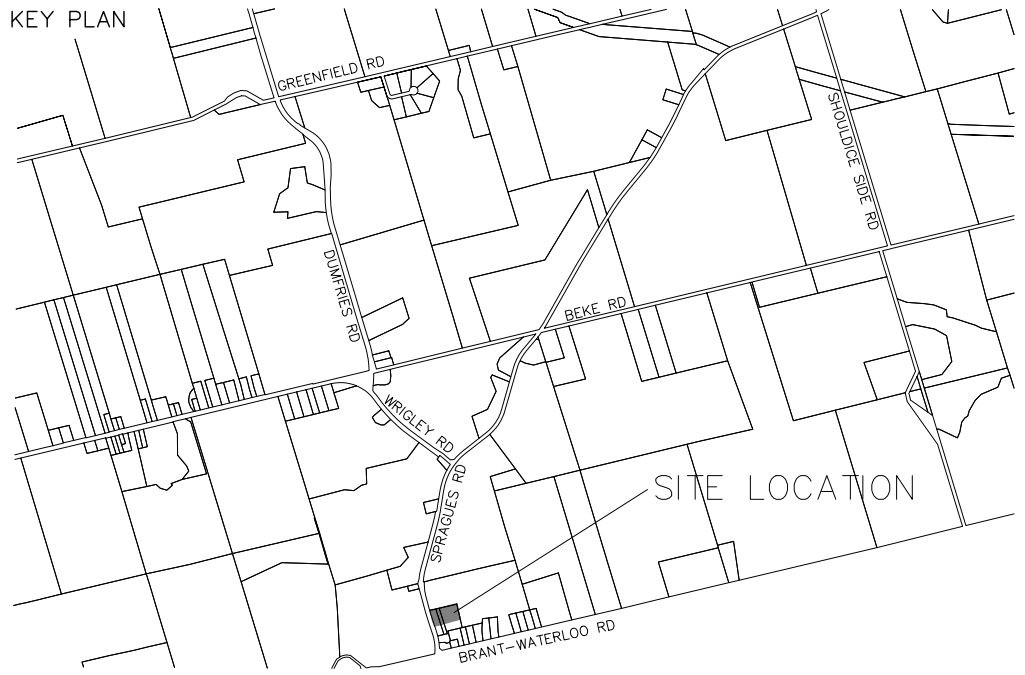
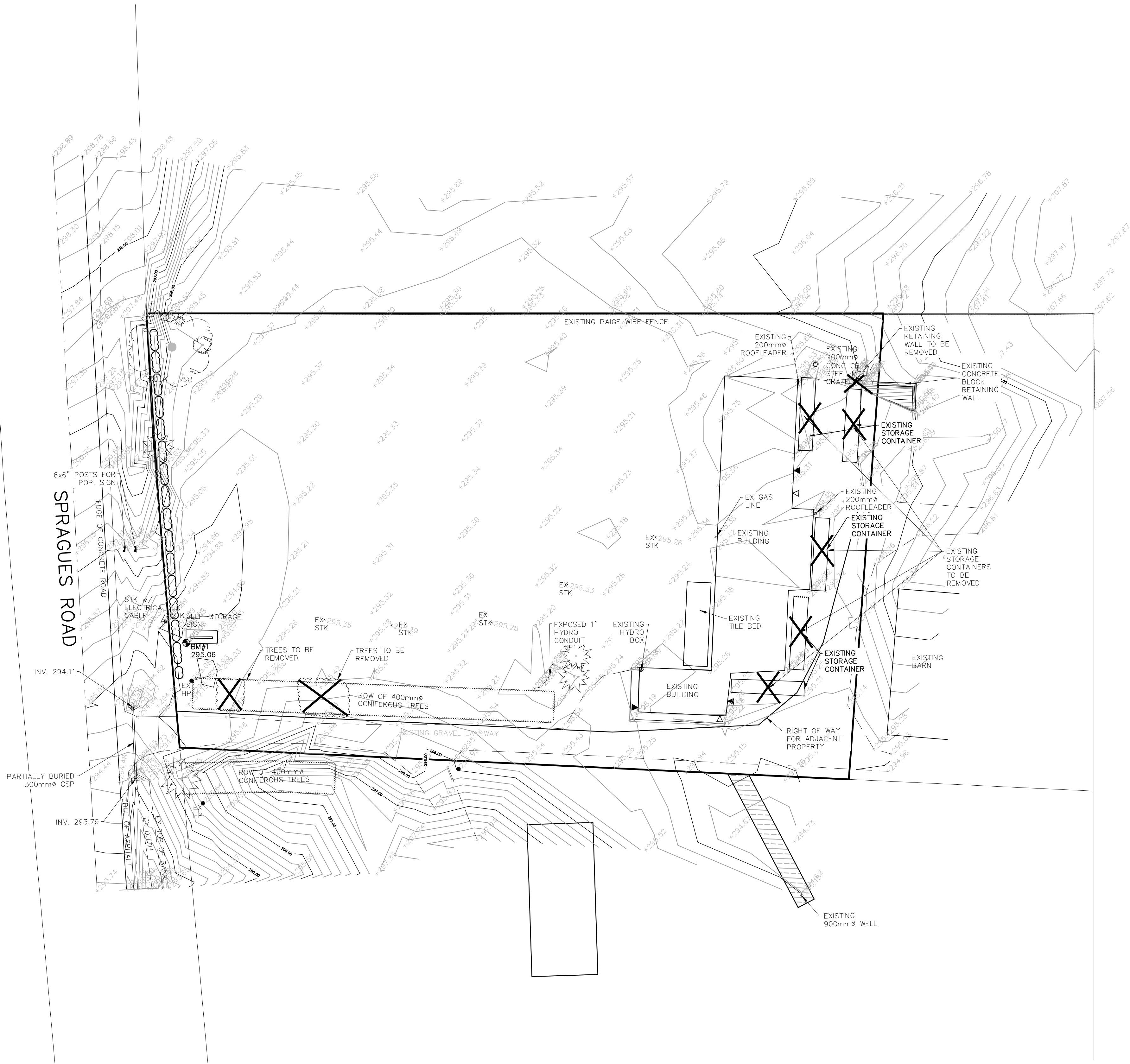




NOTES:

- SAN — SAN — EXISTING SANITARY
- ST — ST — EXISTING STORM
- — EXISTING WATERMAIN
- X · X — REMOVALS
- x — EXISTING FENCE
- H — H — EXISTING HYDRO
- G — G — EXISTING GAS
- BC — BC — BC — EXISTING BELL
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE

BENCHMARKS
BM#1 - OUT-CROSS ON SOUTHWEST CORNER OF CONCRETE PAD FOR SELF STORAGE SIGN.
ELEV. 295.06

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2495 SPRAGUES ROAD
TOWNSHIP OF NORTH DUMFRIES REGION OF WATERLOO

EXISTING CONDITIONS

K. SMART ASSOCIATES LIMITED
CONSULTING ENGINEERS AND PLANNERS
KITCHENER SUDBURY

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STORM SEWERS

ALL MANHOLES AND CATCHBASIN MANHOLES ARE TO BE 1200mmØ PRECAST AS PER OPSD 701.01

MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.

STORM MANHOLE LIDS TO BE PER OPSD 401.010.

ALL CATCHASINS AND CATCHBASIN MANHOLES TO HAVE 600mm SUMP.

THE USE OF PROFILE PVC IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT OF WAY.

ALL STORM SEWER TO BE PVC SMOOTH WALL SDR 35

BEDDING COVER AND BACKFILL PER OPSD 802.01

INSULATION USED FOR FROST COVER – POLYSTYRENE FOAM BOARD SHALL BE USED FOR PIPE INSULATION AND MUST BE 25mm THICK FOR EVERY 300mm REDUCTION IN DEPTH OF COVER. IT MUST BE LAID IN 50mm THICKNESS WITH A WIDTH OF THE INSULATION THAT COMPLIES WITH SECTION 7.3.5.4 OF THE OBC.

2. SANITARY SEWERS

PVC SDR 35 AS PER OPSS 1841 FOR GRAVITY SEWERS, SAND OR GRANULAR 'A' BEDDING, GRANULAR 'B' BACKFILL.

BEDDING, COVER AND BACKFILL OPSD 802.010, FERNCO COUPLERS TO BE USED

3. WATERMAIN

WATERMAIN SHALL BE CLASS 150 PCV C900 PIPE.

PIPE BEDDING FOR RIGID PIPE TO BE CLASS B AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR 'A'. TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

WATERMAIN VALVES, 100mm AND LARGER, SHALL BE AS PER AWWA C509 – MUELLER A2360-23 OR APPROVED EQUIVALENT (OPEN LEFT) INCLUDING VALVE BOX AND 2.3 KG ANODE.

PVC WATERMAIN SHALL HAVE TWO SOLID COPPER, AWG10 TRACER WIRE, STRAPPED TO TOP AS PER DGSSMS STANDARDS AT 5 METRE INTERVALS.

ANODES CONNECTED TO EACH METALLIC FITTING USING BRASS GROUNDING CLAMPS, AND SHALL NOT BE ATTACHED TO TRACER WIRES, AND TRACER WIRE SHALL NOT BE CONNECTED TO WATERMAIN FITTINGS.

ALL METALLIC WATERMAIN FITTING AND APPUTENANCES ARE TO BE WRAPPED WITH AN APPROVED PETROLEUM SYSTEM.

ALL WATERMAINS AND NORTHWAYS TO HAVE MINIMUM 2m COVER.

CITY OF TOWNSHIP OF NORTH DUMFRIES TO SUPPLY WATER METER, CONTRACTOR TO INSTALL METER, ALL VALVES, PIPING AND REMOTE METER READOUT AT LOCATION ON BUILDING EXTERIOR ACCEPTABLE TO THE CITY.

BACKFLOW PREVENTION DEVICES ARE REQUIRED AT THE WATER METER AND OTHER LOCATION AS NECESSARY IN ACCORDANCE WITH CSA AND OBC REGULATIONS. DEVICES TO BE TESTED ANNUALLY BY A LICENSED PLUMBER WITH A COPY OF THE CERTIFICATION REPORT SUBMITTED TO THE REGION.

SERVICE PROVIDING FIRE FLOWS MUST BE PRESSURE TESTED TO 200psi AS PER OBC PLUMBING CODE.

WATER SERVICE TESTING AND COMMISSIONING SHALL COMPLY WITH DGSSMS SECTION D.2.8. 'COMMISSIONING'.

THE DESIGN, CONSTRUCTION, INSTALLATION AND TESTING OF WATERMAIN AND SERVICE PIPING SHALL BE IN CONFORMANCE WITH OPSS 441.

THE TRENCH SHALL BE BACKFILLED BETWEEN JOINTS BEFORE TESTING TO PREVENT MOVEMENT OF PIPE.

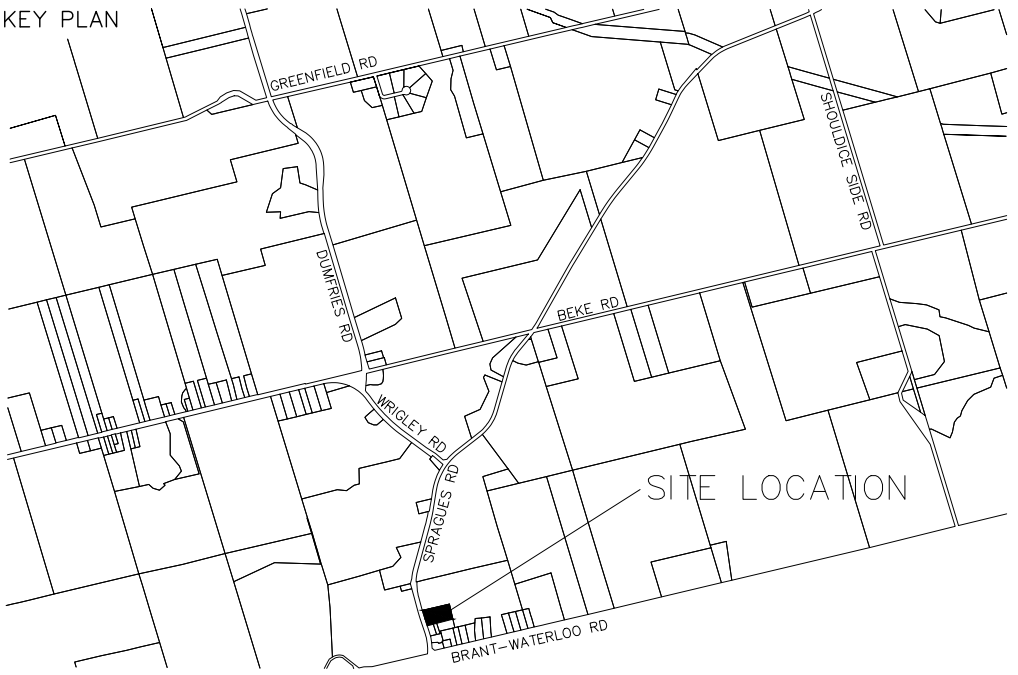
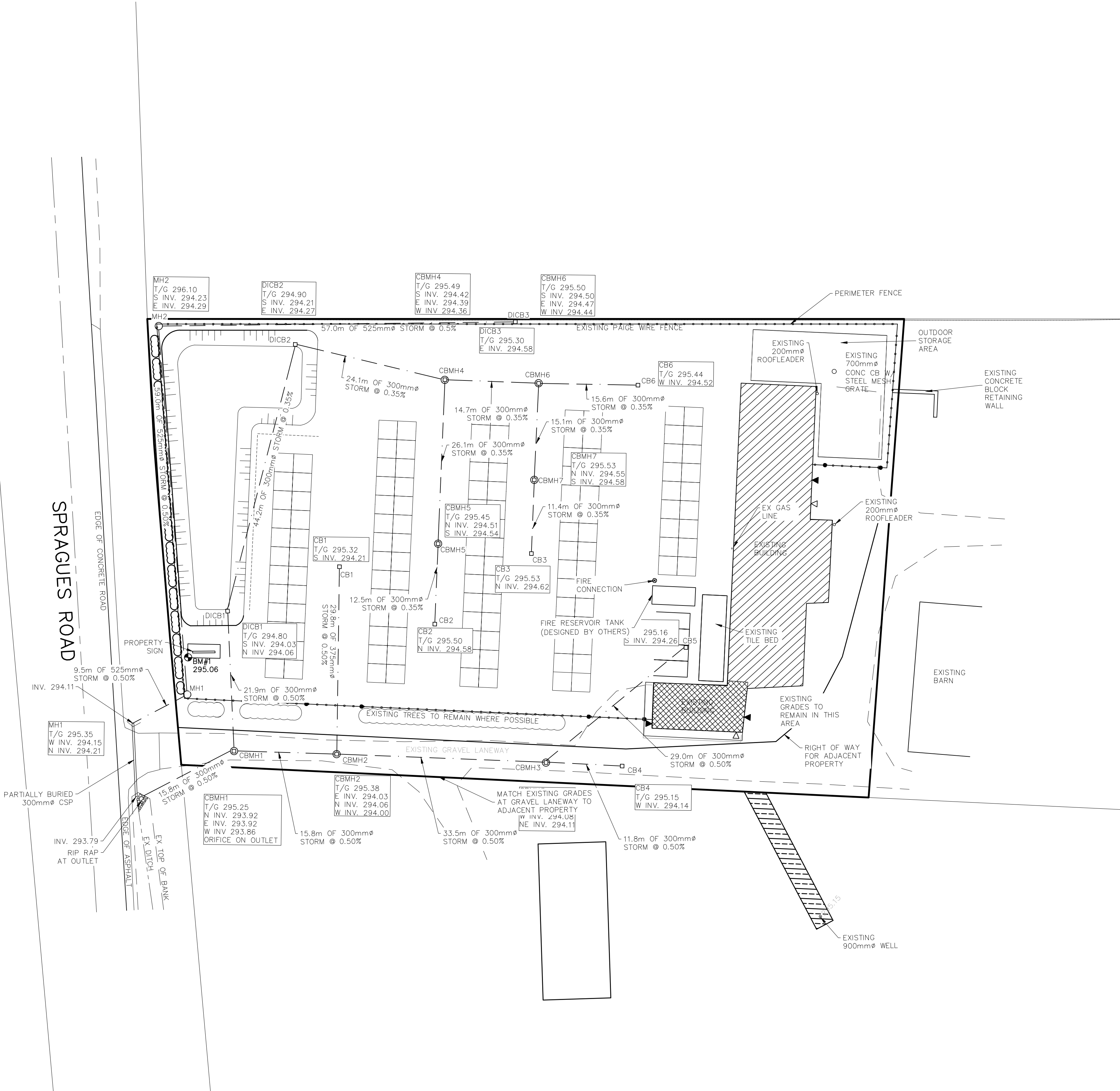
THE AMOUNT OF LEAKAGE SHALL NOT EXCEED THE ALLOWABLE LEAKAGE SPECIFIED IN OPSS 441.

ALL CONTROL VALVES SHALL BE FULLY CLOSED AND OPENED UNDER SYSTEM WATER PRESSURE TO ENSURE PROPER OPERATION.

PRESSURE LEAKAGE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE CONSULTING ENGINEER.

CERTIFICATION SHALL BE COMPLETED BY THE CONSULTANT INDICATING THE TESTS WERE COMPLETED AND PASSED, AND SUBMITTED TO THE ENGINEERING SERVICES INSPECTOR.

THE COMMISSIONING PLAN MUST BE SUBMITTED TO THE PWS WATER SERVICES FOR APPROVAL PRIOR TO CONSTRUCTION.



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- — — PROPOSED WATERMAIN

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SERVICING PLAN

K. SMART ASSOCIATES LIMITED
CONSULTING ENGINEERS AND PLANNERS
KITCHENER SUDBURY

PROFESSIONAL ENGINEER
SANDRA SWANTON
100119707
NOV 28/24
PROVINCE OF ONTARIO

CERTIFIED ENGINEERING TECHNOLOGIST
SEAN LUCHT
913130
ONTARIO

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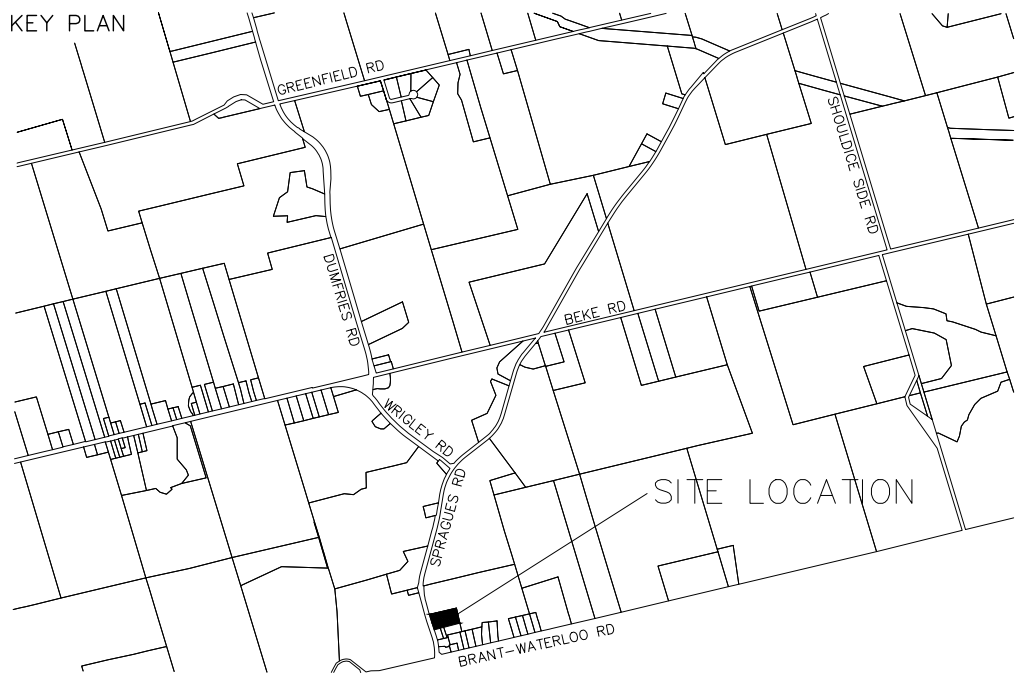
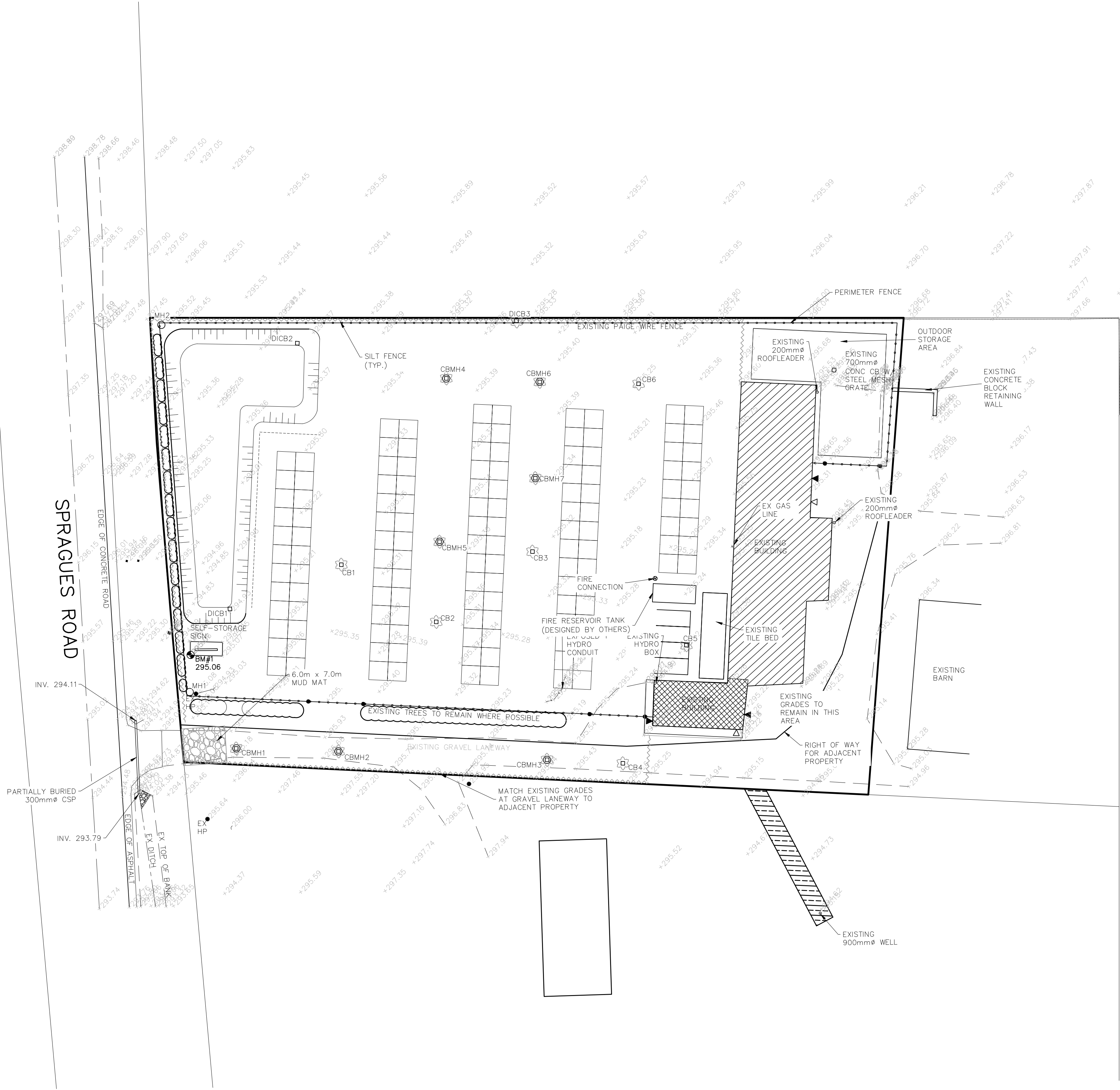
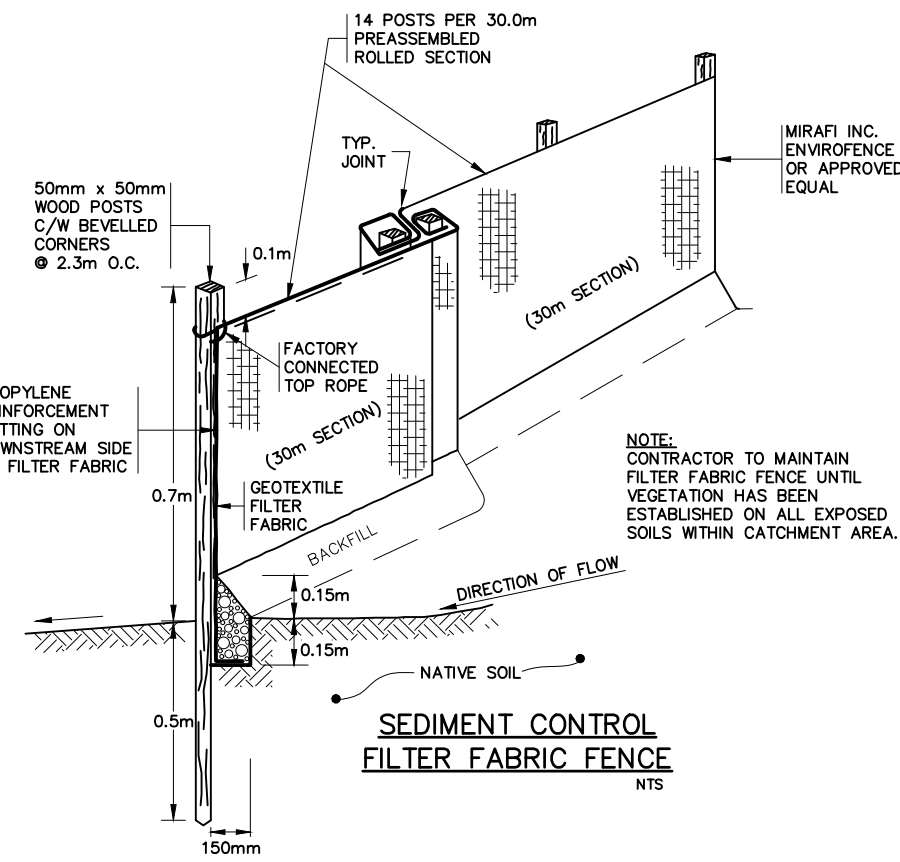
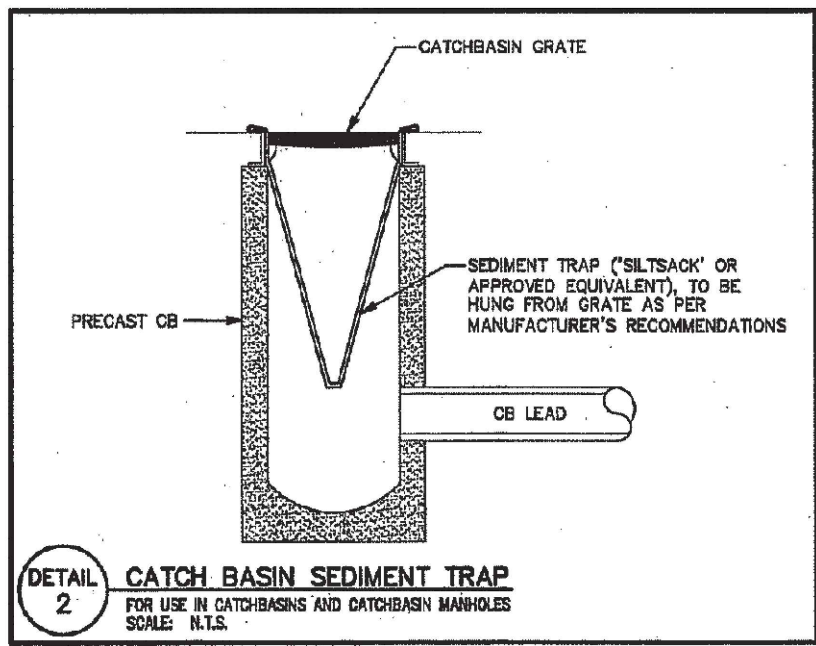
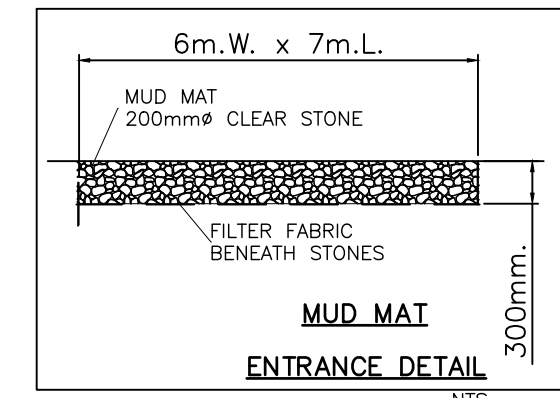
EROSION AND SEDIMENT CONTROL

ALL SILT FENCING TO BE INSTALLED ALONG PROPERTY LINES PRIOR TO COMMENCEMENT OF ANY AREA GRADING, EXCAVATING OR DEMOLITION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED.

DURING CONSTRUCTION PHASE AND FOR POST PAVING STAGE, ALL CATCHBASIN AND CATCHBASIN MANHOLES TO BE PROTECTED BY SILT CLOTH INSTALLATION UNDER GRATE.

ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.

NOTE: IT IS THE SITE OWNERS' RESPONSIBILITY TO ENSURE THAT ALL SEDIMENT CONTROLS ARE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH THE ABOVE CRITERIA.



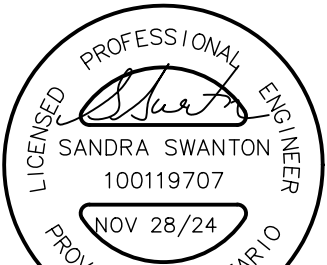
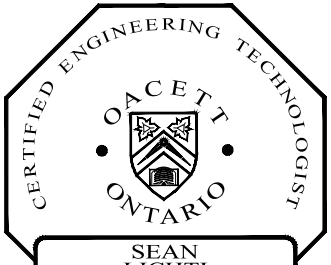
NOTES:

- PROPOSED SILT FENCE
- PROPOSED SILT SACK

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EROSION AND SEDIMENTATION CONTROL PLAN

K. SMART ASSOCIATES LIMITED
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KITCHENER SUDBURY

			
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