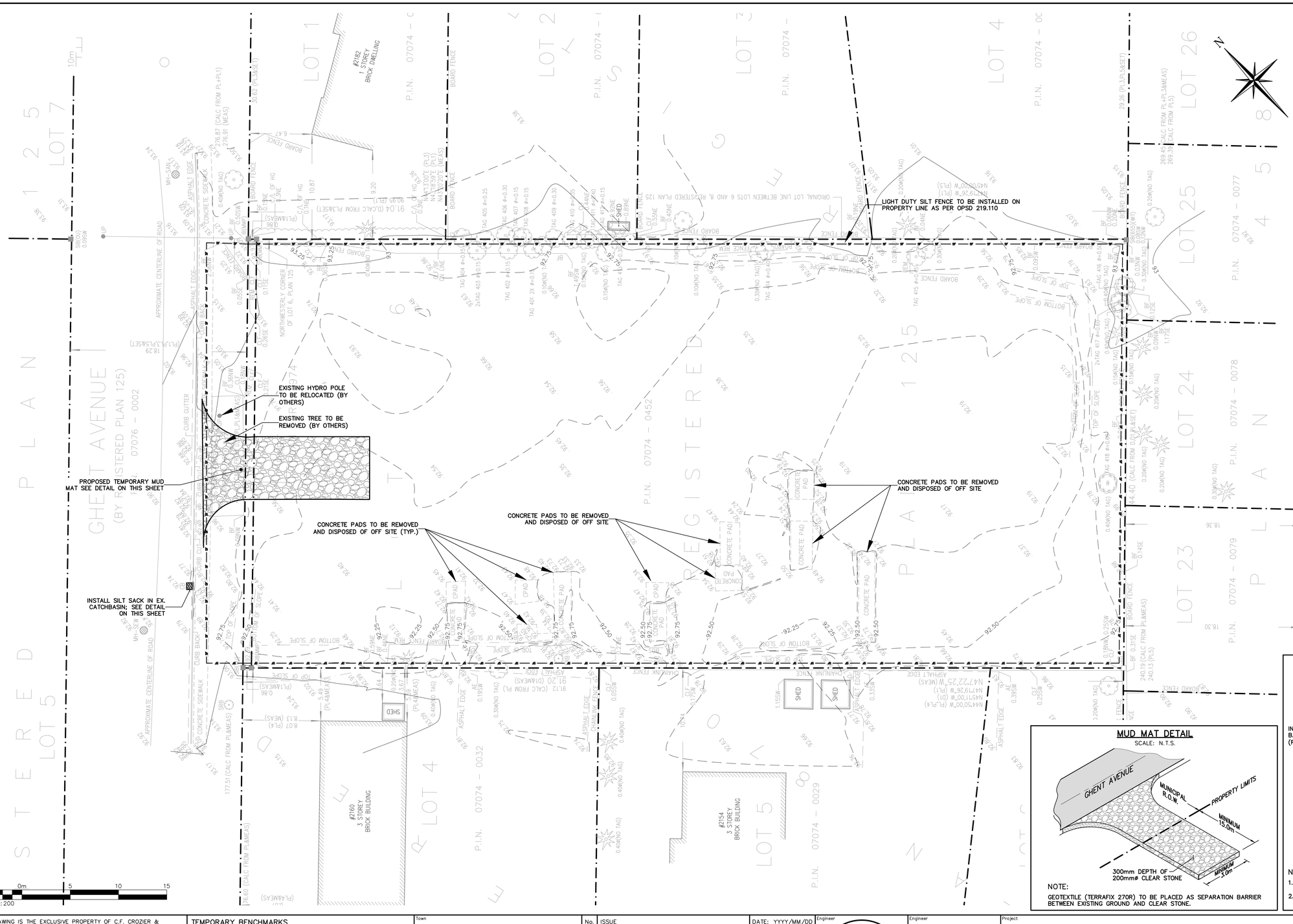
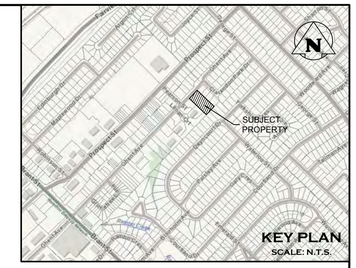


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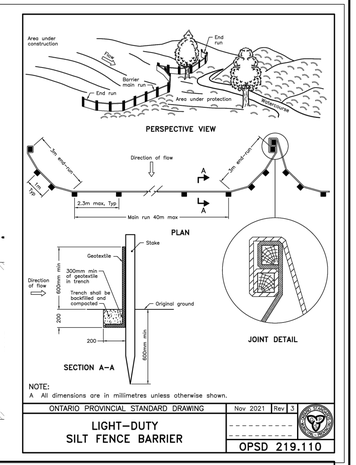
SCALE: 1:200



KEY PLAN
SCALE: N.T.S.

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING FENCE
- EXISTING GRADE
- EXISTING OVERLAND FLOW DIRECTION
- MUD-MAT; SEE DETAIL
- SF — SEDIMENT CONTROL FENCE; SEE DETAIL
- SILT SACK; SEE DETAIL



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2021	Rev 3
LIGHT-DUTY SILT FENCE BARRIER		OPSD 219.110

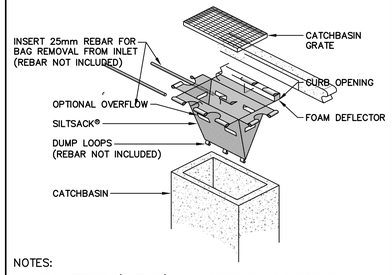
MUD MAT DETAIL

SCALE: N.T.S.

NOTE:
GEOTEXTILE (TERRAFIX 270R) TO BE PLACED AS SEPARATION BARRIER BETWEEN EXISTING GROUND AND CLEAR STONE.

'SILTSACK' DETAIL

SCALE: N.T.S.



NOTES:
1. INSTALL TERRAFIX 'SILTSACK' IN ALL CATCHBASINS & CATCHBASIN MANHOLES AFFECTED BY CONSTRUCTION.
2. INSTALL TERRAFIX 'SILTSACK' IN ALL NEW CATCHBASINS & CATCHBASIN MANHOLES.

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TEMPORARY BENCHMARKS

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO BENCHMARK No. 00819838007 HAVING AN ELEVATION OF 99.883m. LOCATED ON THE MOST SOUTHERLY OF TWO STEEL AND CONCRETE BRIDGES CARRYING THE CNR OVER BRANT ST. (THE MOST SOUTHERLY BRIDGE IS CARRYING A SPUR LINE). BENCHMARK IS SET VERTICALLY IN THE TOP OF THE S.E. ABUTMENT, 1.45m MOUTH OF THE MOST SOUTHERLY RAIL OF SPUR LINE, 14.85m WEST OF SIGNAL LIGHT #078, 10cm WEST OF EAST EDGE, 35cm NORTH OF HANDRAIL.
WAHBA SURVEYING, PROJECT No. 24-048 DATED JULY 30, 2024

Town: CITY OF Burlington

No.	ISSUE	DATE: YYYY/MM/DD
0	ISSUED FOR 1st SUBMISSION ZBA	2024/11/08

Engineer: LICENSED PROFESSIONAL ENGINEER — T.A.H. FRASER — 100176040 — 2024/11/08 — PROVINCE OF ONTARIO

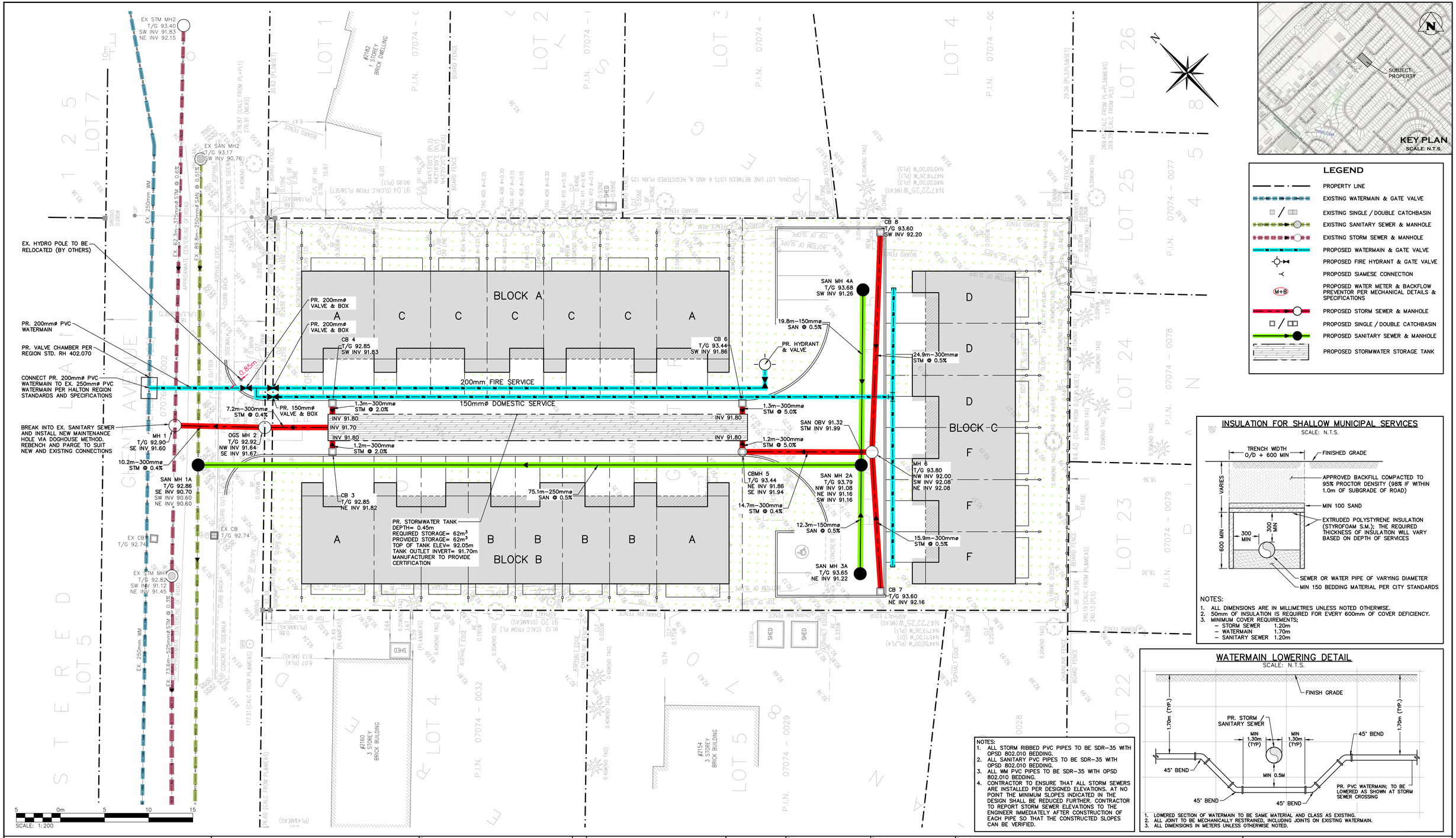
Engineer:

Project: 2170 GHENT AVENUE BURLINGTON, ONTARO

Drawing: PRELIMINARY EROSION AND SEDIMENT CONTROL PLAN

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
S.C.	S.C./M.B.	912-7186
Check By	Check By	Drawing
M.B./T.F.	T.F.	C101



LEGEND

- PROPERTY LINE
- EXISTING WATERMAIN & GATE VALVE
- EXISTING SINGLE / DOUBLE CATCHBASIN
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED WATERMAIN & GATE VALVE
- PROPOSED FIRE HYDRANT & GATE VALVE
- PROPOSED SIAMESE CONNECTION
- PROPOSED WATER METER & BACKFLOW PREVENTOR PER MECHANICAL DETAILS & SPECIFICATIONS
- PROPOSED STORM SEWER & MANHOLE
- PROPOSED SINGLE / DOUBLE CATCHBASIN
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORMWATER STORAGE TANK

INSULATION FOR SHALLOW MUNICIPAL SERVICES

SCALE: N.T.S.

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. 50mm OF INSULATION IS REQUIRED FOR EVERY 600mm OF COVER DEFICIENCY.
3. MINIMUM COVER REQUIREMENTS;
   - STORM SEWER 1.20m
   - WATERMAIN 1.70m
   - SANITARY SEWER 1.20m

WATERMAIN LOWERING DETAIL

SCALE: N.T.S.

1. LOWERED SECTION OF WATERMAIN TO BE SAME MATERIAL AND CLASS AS EXISTING.
2. ALL JOINT TO BE MECHANICALLY RESTRAINED, INCLUDING JOINTS ON EXISTING WATERMAIN.
3. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

NOTES:
1. ALL STORM RIBBED PVC PIPES TO BE SDR–35 WITH OPSD 802.010 BEDDING.
2. ALL SANITARY PVC PIPES TO BE SDR–35 WITH OPSD 802.010 BEDDING.
3. ALL WM PVC PIPES TO BE SDR–35 WITH OPSD 802.010 BEDDING.
4. CONTRACTOR TO ENSURE THAT ALL STORM SEWERS ARE INSTALLED PER DESIGNED ELEVATIONS. AT NO POINT THE MINIMUM SLOPES INDICATED IN THE DESIGN SHALL BE REDUCED FURTHER. CONTRACTOR TO REPORT STORM SEWER ELEVATIONS TO THE ENGINEER IMMEDIATELY AFTER CONSTRUCTION OF EACH PIPE SO THAT THE CONSTRUCTED SLOPES CAN BE VERIFIED.

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TEMPORARY BENCHMARKS

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Engineer: LICENSED PROFESSIONAL ENGINEER — T.A.H. FRASER — 100176040 — 2024/11/08 — PROVINCE OF ONTARIO

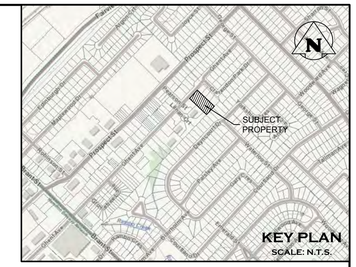
Engineer:

Project: 2170 GHENT AVENUE
BURLINGTON, ONTARIO

Drawing: PRELIMINARY SITE SERVICING PLAN

CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
S.C.	S.C./M.B.	912–7186
Check By	Check By	Drawing
M.B./T.F.	T.F.	C102

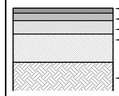


LEGEND

- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING FENCE
- 215.00 EXISTING GRADE
- 215.00 PROPOSED GRADE
- 215.00 PROPOSED GRADE (TO MATCH EXISTING)
- 2.0% PROPOSED MINOR FLOW DIRECTION
- PROPOSED SLOPE (3:1 MAX.)
- 2.0% PROPOSED SWALE
- PROPOSED STORM MANHOLE
- PROPOSED SINGLE / DOUBLE CATCHBASIN
- PROPOSED SANITARY MANHOLE

PAVEMENT STRUCTURE

SCALE: N.T.S.



- 40mm HL3 SURFACE
- 80mm HL8 BINDER
- 150mm GRANULAR 'A'
- 350mm GRANULAR 'B'
- 620mm TOTAL
- COMPACTED SUB-BASE (ALL TOPSOIL REMOVED)

NOTE:
REFER TO CONSTRUCTION NOTES FOR DETAILS ON COMPACTION. PAVEMENT STRUCTURE IS BASED ON GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS.

5 0m 5 10 15
SCALE: 1:200

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Engineer:

Project: 2170 GHENT AVENUE
BURLINGTON, ONTARIO

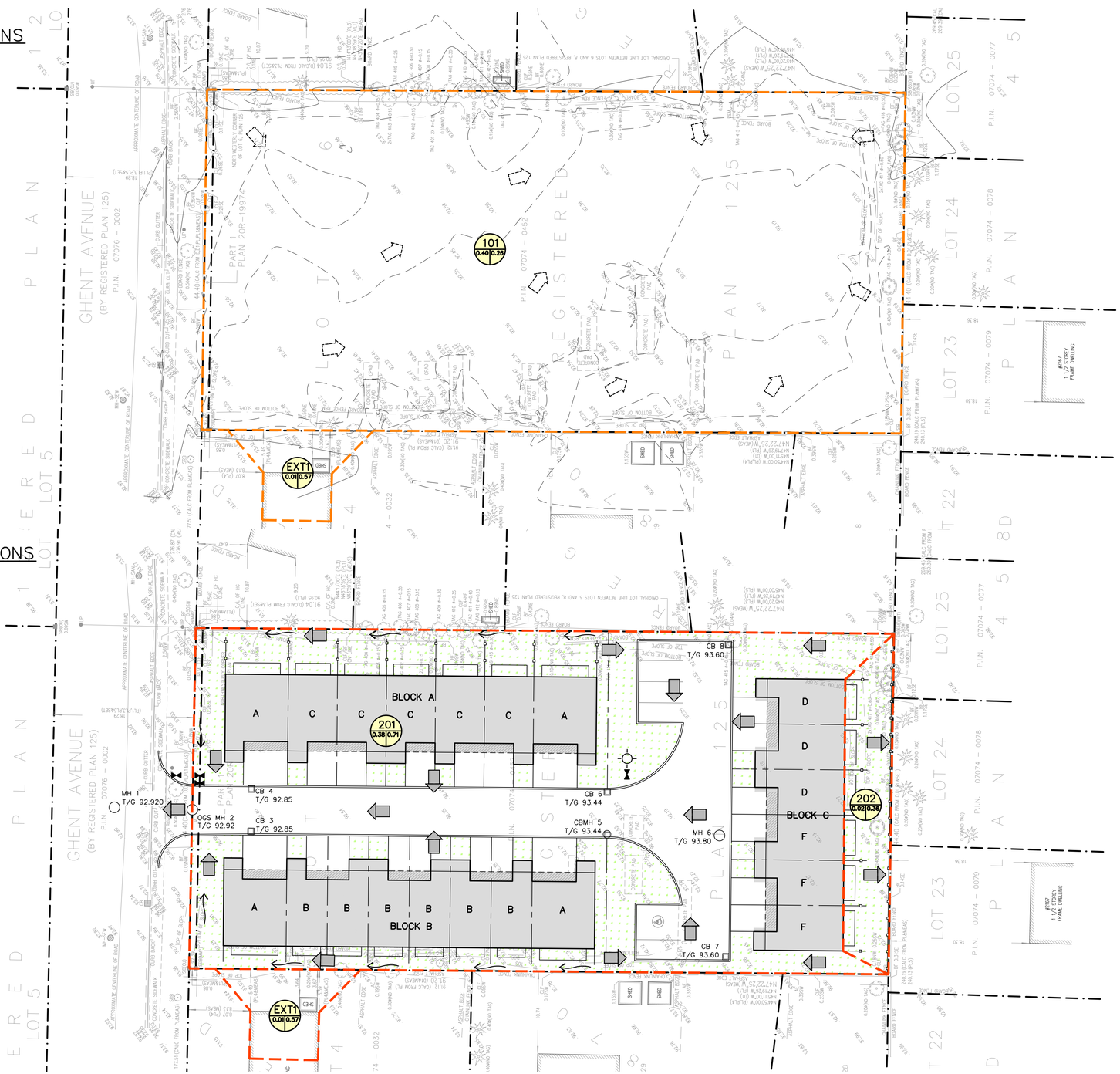
Drawing: PRELIMINARY SITE GRADING PLAN

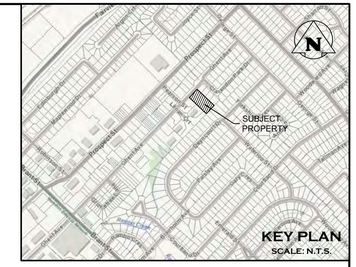
CROZIER CONSULTING ENGINEERS

Drawn By	Design By	Project
S.C.	S.C./M.B.	912-7186
Check By	Check By	Drawing
M.B./T.F.	T.F.	C103

PRE-DEVELOPMENT CONDITIONS

POST-DEVELOPMENT CONDITIONS





LEGEND

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- × 215.00 EXISTING GRADE
- PROPOSED SWALE
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- PRE-DEVELOPMENT DRAINAGE
- POST-DEVELOPMENT DRAINAGE
- ID / A | XX — STORM DRAINAGE CATCHMENT I.D. / AREA (ha) | RUNOFF COEFFICIENT

10 0m 10 20
SCALE: 1:300

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Engineer:

Project: 2170 GHENT AVENUE
BURLINGTON, ONTARIO

Drawing: PRELIMINARY PRE & POST STORM DRAINAGE PLANS

CROZIER CONSULTING ENGINEERS

Drawn By	S.C.	Design By	S.C./M.B.	Project	912-7186
Check By	M.B./T.F.	Check By	T.F.	Drawing	C104