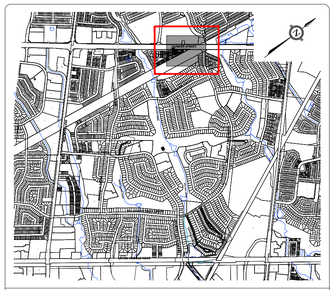


(SOURCE: 59 PROJECT MANAGEMENT INC.)

LUFFING-JIB CRANE

NOTE:
NO TRADES PARKING OR TRUCK STAGING WILL BE ALLOWED IN THE MUNICIPAL RIGHT OF WAY.



KEY PLAN
N.T.S.

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- SEDIMENT / CONSTRUCTION / TREE PROTECTION FENCE
- SITE BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- PROPOSED LIMIT OF SHORING
- LIMIT OF SITE PROPERTY
- PROPOSED LUFFING-JIB CRANE SWING RADIUS
- LIMIT OF UNDERGROUND PARKING TO EX. LIMIT OF DUNDAS STREET R.O.W. / LIMIT OF SITE PROPERTY
- LIMIT OF UNDERGROUND PARKING TO PROP. LIMIT OF DUNDAS STREET R.O.W.

NOTE:
ADDITIONAL CMMP DETAILS TO BE PROVIDED AND DIMENSIONS TO BE CONFIRMED DURING DETAILED DESIGN.

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

URBANTECH®

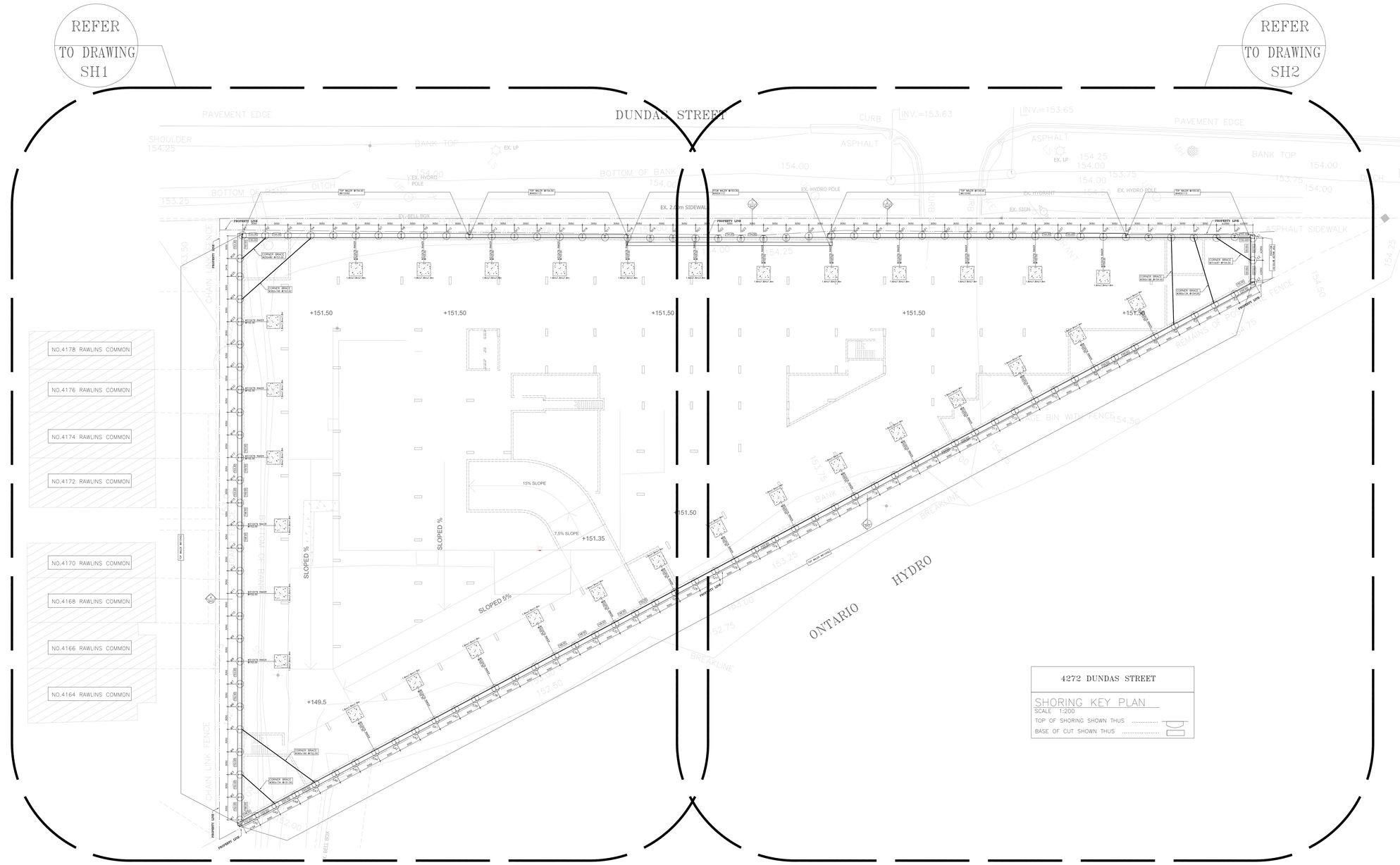
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 • urbantech.com

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

MILLCROFT GREEN
CITY OF BURLINGTON

CONSTRUCTION MANAGEMENT & MOBILITY PLAN

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	CMMP-E



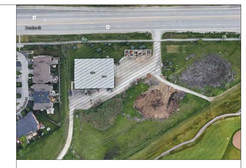
4272 DUNDAS STREET

SHORING KEY PLAN

SCALE 1:200

TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....



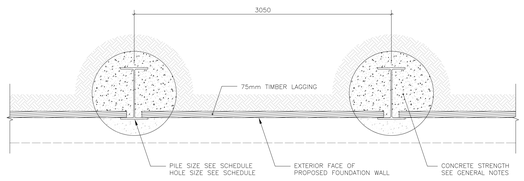
KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
	SHORING PILES & CAISSONS
	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
STORM	EXISTING UTILITIES
BH11	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

GAS_MAIN	COLOR 50
SANITARY	COLOR 210
STORM	COLOR 90
WATER	COLOR 154
ENTRON	COLOR 12
ENRT	COLOR 30
EXISTING	COLOR 8
LINE_TYPE_GRD1	COLOR 8
DEFPOINTS_LAYER	COLOR 144



TYPICAL SOLDIER PILE AND LAGGING LAYOUT
FOR 3050mm SPACING

DETAIL A SH1

SCALE N.T.S.

GENERAL NOTES

A. DESIGN

1. FOR CANTILEVER OR SINGLE LEVEL TIEBACK/RAKER SYSTEM, USE A TRIANGULAR PRESSURE DISTRIBUTION DIAGRAM:

   ACTIVE PRESSURE:
   $\sigma_a = K_a \times (q + OB) +$ SURCHARGE LOAD
   $\sigma_a = K_a \times \gamma \times H +$ LATERAL EARTH PRESSURE

   PASSIVE PRESSURE:
   $\sigma_p = K_p \times \gamma \times D +$ TOE RESISTANCE

   WHERE
   K_a = 0.28 (SOLDIER PILE & LAGGING)
   Kp = 3.5
   γ = 21 kN/m^3 – SOIL DENSITY
   q = 12.5 kN/m^2 – STANDARD SURCHARGE LOAD (SURCHARGE LOAD FROM ADJACENT BUILDING TO BE CALCULATED)
   OB = OVERBURDEN
   H = HEIGHT OF CUT
   D = TOE DEPTH

2. FOR SOIL INFORMATION REFER TO PRELIMINARY GEOTECHNICAL INVESTIGATION PRODUCED BY DS CONSULTANTS LTD., PROJECT #19-199-102 R2, DATED NOVEMBER 12, 2020.
3. ALL SOIL PARAMETERS SHOWN ABOVE ARE TO BE CONFIRMED IN WRITING BY THE GEOTECHNICAL CONSULTANT PRIOR TO THE INSTALLATION OF SHORING.
4. ASSUMED INCLINED RAKER END BEARING CAPACITY 350kPa (ULS)
5. DESIGN IS IN ACCORDANCE WITH ONTARIO BUILDING CODE LATEST EDITION.
6. LOCATIONS AND DEPTHS OF ALL EXISTING SERVICES MUST BE CONFIRMED PRIOR TO THE START OF SHORING OPERATIONS.

B. MATERIALS

1. STRUCTURAL STEEL TO BE NEW OR SOUND USED MATERIAL CONFORMING WITH C.S.A. G40.21, GRADE 350W. WELDING TO CONFORM TO C.S.A. W59 DONE BY WELDERS QUALIFIED TO C.S.A. W47.
2. ALTERNATIVE SECTIONS OF GRADES OF EQUIVALENT STRENGTH MAY BE SUBSTITUTED SUBJECT TO APPROVAL BY TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
3. CONCRETE STRENGTHS TO BE MINIMUM OF VALUES SHOWN BELOW:

SHORING TYPE	CONCRETE STRENGTH
RAKERED PILES:	
A) SOLDIER PILE+LAGGING+RAKER	
TOE	0.7 MPa
BACKFILL TO GRADE	0.4 MPa

4. LAGGING TO BE 75mm MIN. ROUGH CUT HARDWOOD UNLESS OTHERWISE NOTED.

C. PROCEDURE

(SOLDIER PILE + LAGGING WITH RAKER)

1. CONTRACTOR TO LAY OUT STAKES FOR ALL PILES. CHECK OF ALL DIMENSIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO THE COMMENCEMENT OF ANY SHORING OPERATIONS.
2. DRILL HOLES TO SIZES AND DEPTHS INDICATED, EMPLOYING LINERS, MUD DRILLING, ETC. AS REQUIRED TO AVOID THE INGRESS OF LOOSE SOIL OR WATER. INSTALL PILES PLUMB AND TO LINE. PLACE CONCRETE TOES WHERE SPECIFIED AND BACKFILL TO GRADE AS NOTED ABOVE – "B"
3. EXCAVATE IN 1200mm MAX. LIFTS, INSTALLING LAGGING AS EXCAVATION PROCEEDS. CUT SOIL FACE NEATLY TO ENSURE TIGHT FIT FOR LAGGING. WEDGE AT PILES WHERE NECESSARY. FILL ALL VOIDS BEHIND LAGGING WITH EXCAVATED MATERIAL RAMMED IN PLACE. IN WET GROUND PROVIDE SUITABLE DRAINAGE SYSTEM BETWEEN LAGGING BOARDS.
4. WHEN EXCAVATION REACHES 300mm MAX. BELOW RAKER ELEVATION, INSTALL RAKER AND WALER.
5. DO NOT CONTINUE EXCAVATION UNTIL RAKER INSTALLATION IS COMPLETE.
6. CONTINUE EXCAVATION TO REQUIRED ELEVATIONS.
7. IT IS THE SHORING SUBCONTRACTORS RESPONSIBILITY TO REVIEW AND UNDERSTAND THE EXISTING SITE CONDITIONS PRIOR TO TENDERING OR COMMENCEMENT OF WORK.

D. PILE INSTALLATION TOLERANCES

CONTRACTOR TO ENSURE PILES ARE INSTALLED PLUMP ON ITS SPECIFIED POSITION. THE VERTICAL OUT OF PLUMPNESS OF SOLDIER PILE IS LIMITED TO THE SMALLEST OF THE FOLLOWING:

- 1% OF PILE HEIGHT (FROM TOP OF PILE TO BASE OF EXCAVATION)
- 1" PER 10'-0" LENGTH OF PILE
- MAXIMUM 4" OVER THE FULL HEIGHT

E. GENERAL CONTRACTOR

1. GENERAL CONTRACTOR TO PROVIDE THE FOLLOWING:
   A) CONDITION SURVEY OF EXISTING ADJACENT STRUCTURES WITHIN THE INFLUENCE AREA OF THE EXCAVATION. MONITOR ADJACENT BUILDINGS FREQUENTLY DURING SHORING OPERATIONS AND REPORT ANY MOVEMENTS OR DETERIORATION TO SHORING ENGINEER IMMEDIATELY.
   B) DEWATER PRIOR TO EXCAVATION TO A MINIMUM OF 1m BELOW EXCAVATION LEVEL IF NECESSARY.
   C) MONITORING OF ALL PILES FOR HORIZONTAL AND VERTICAL MOVEMENTS. REPORT IMMEDIATELY ANY MOVEMENT IN EXCESS OF 12mm – FOR SOLDIER PILE + LAGGING, OF 8mm – FOR CAISSON WALL, TO TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
   D) PROVIDE ADEQUATE PROTECTION FOR SHORING SYSTEM AGAINST THE EFFECTS OF WEATHER AND WATER. TARP SLOPES TO AVOID EROSION WHERE NECESSARY.
   E) PROVIDE ACCESS FOR ALL SHORING EQUIPMENT.
   F) COORDINATE SITE SERVICES WITH PROPOSED SHORING AND SHORING EQUIPMENT TO AVOID CONFLICT.
2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT.
3. UNDER NO CIRCUMSTANCES SHALL THE GENERAL CONTRACTOR ALLOW ANY COMPONENT OF THE SHORING SYSTEM TO BE REMOVED WITHOUT FIRST NOTIFYING TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC.
4. BASED ON PREVIOUS USE, CLEAN UP AND BACKFILL FOUNDATION LEVEL MAY CHANGE. NOTIFY TARRA ENGINEERING & STRUCTURAL CONSULTANTS INC. OF ANY CHANGES IN THE DEPTH OF EXCAVATION.

F. REFERENCE DRAWINGS

ARCHITECTURAL DRAWINGS

	COMPANY NAME	DWG. #	DWG. TITLE	REV.	ISSUED FOR	DATE
1.	KIRKOR ARCHITECTS AND PLANNERS	DA1.2	SITE PLAN	01	ZBA SUBMISSION #1	NOV.16, 2020
		DA1.3	UNDERGROUND PARKING PLAN	01	ZBA SUBMISSION #1	NOV.16, 2020

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

NOTES

THIS DRAWING IS THE SOLE PROPERTY OF TARRA ENGINEERING INC. AND MAY NOT BE REPRODUCED IN ANY WAY SHAPE OR FORM WITHOUT THE WRITTEN PERMISSION OF TARRA ENGINEERING INC.

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS IT IS SPECIFICALLY STATED IN THE REVISIONS COLUMN THAT IT HAS BEEN ISSUED FOR CONSTRUCTION.

DO NOT SCALE THIS DRAWING.

LICENSED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

tarra Engineering & Structural Consultants

Tarra Engineering & Structural Consultants Inc.
2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-8992
Fax: (905) 248-3267

Project

4274 DUNDAS STREE

BURLINGTON ONTARIO

Drawing Title

SHORING KEY PLAN
GENERAL NOTES & DETAILS

Drawn: C.L.	Scale: AS NOTED
Checked: L.Y.	Date: DEC 2020
Project No.: 20141	Drawing Number: SH0

NO.4178 RAWLINS COMMON

NO.4176 RAWLINS COMMON

NO.4174 RAWLINS COMMON

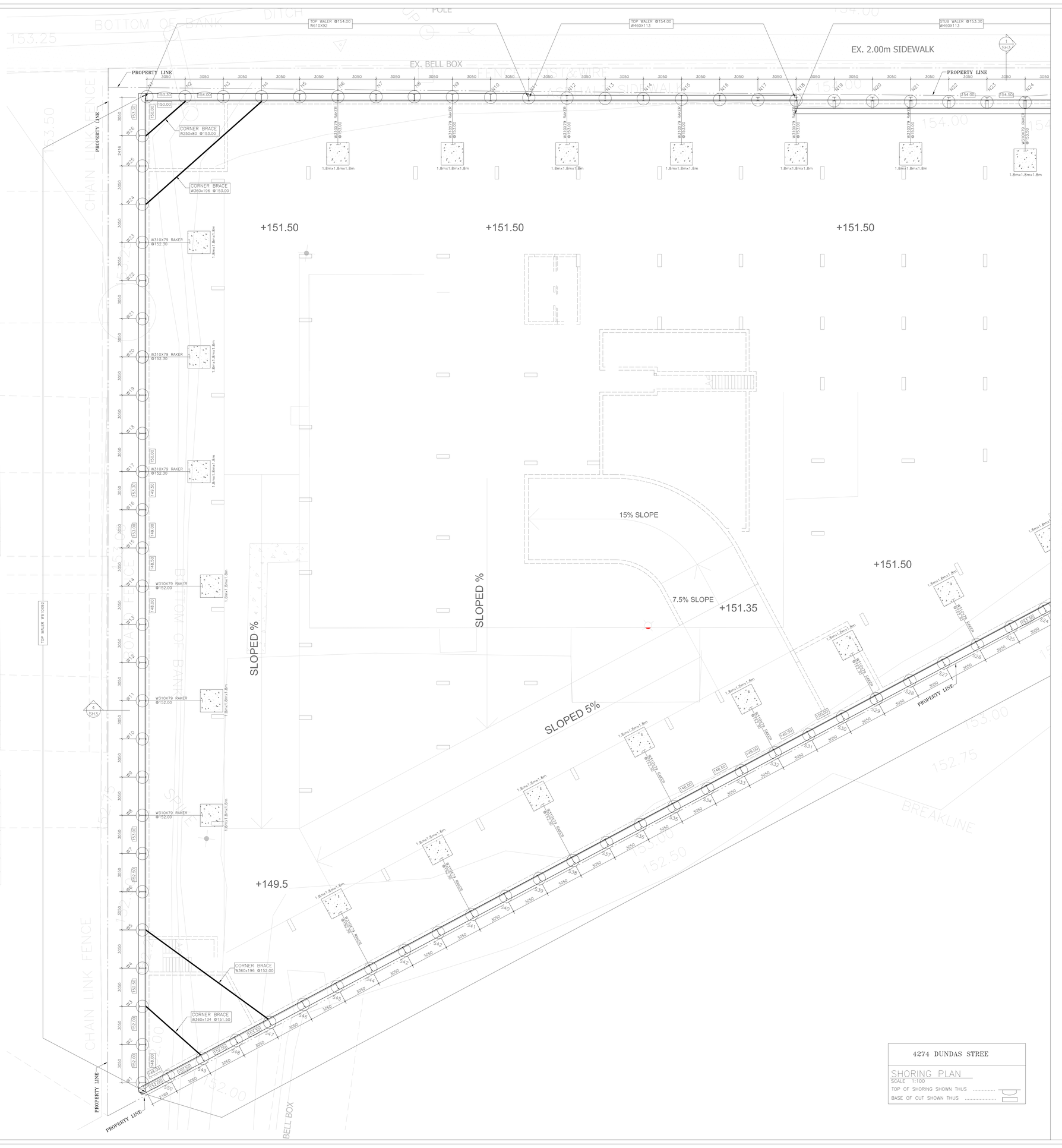
NO.4172 RAWLINS COMMON

NO.4170 RAWLINS COMMON

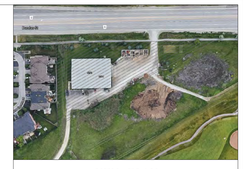
NO.4168 RAWLINS COMMON

NO.4166 RAWLINS COMMON

NO.4164 RAWLINS COMMON



FOR SHORING CONTINUATION, SEE DWG. SH2



KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
	SHORING PILES & CAISSONS
	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
HydroV	EXISTING UTILITIES
BH1	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

GAS_MAIN	COLOR 30
SANITARY	COLOR 210
STORM	COLOR 90
WATER	COLOR 150
HYDRO	COLOR 12
TELE	COLOR 30
ROGERS	COLOR 210
LINE_TYPE_ORDI	COLOR 30
DEFPOINTS_LAYER	COLOR 149

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

NOTES

THIS DRAWING IS THE SOLE PROPERTY OF TARRA ENGINEERING INC. AND MAY NOT BE REPRODUCED IN ANY WAY SHAPE OR FORM WITHOUT THE WRITTEN PERMISSION OF TARRA ENGINEERING INC.

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS IT IS SPECIFICALLY STATED IN THE REVISIONS COLUMN THAT IT HAS BEEN ISSUED FOR CONSTRUCTION.

DO NOT SCALE THIS DRAWING.

LICENCED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

Tarra Engineering & Structural Consultants Inc.
2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-0952
Fax: (905) 248-3267

Project

4274 DUNDAS STREE

BURLINGTON ONTARIO

Drawing Title

SHORING PLAN

Drawn:	C.L.	Scale:	AS NOTED
Checked:	L.Y.	Date:	MAR 2020
Project No.	20141	Drawing Number	SH1

4274 DUNDAS STREE

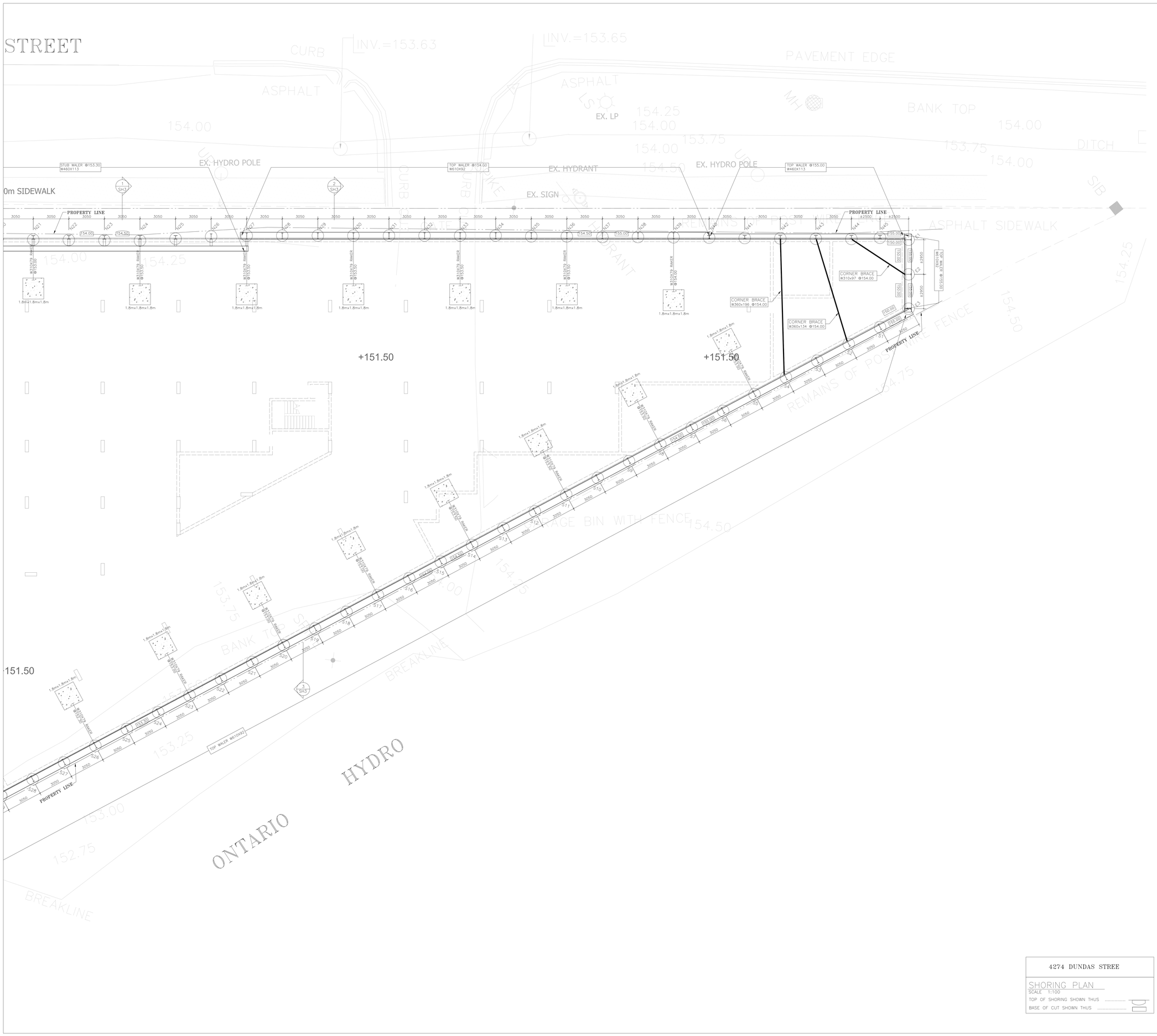
SHORING PLAN

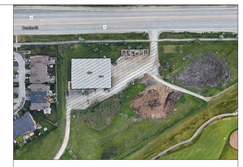
SCALE 1:100

TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....

FOR SHORING CONTINUATION, SEE DWG. SH2





KEY PLAN

TARRA LEGENDS

179.00	TOP OF SHORING/ GRADE
160.50	BASE OF EXCAVATION/ FOUNDATION
	SHORING PILES & CAISSONS
	COMBINED & SHORING STRUCTUARL CAISSONS
	INCLINOMETER LOCATIONS
OR	PROPOSED BUILDING
	EXISTING BUILDING
HydroV	EXISTING UTILITIES
BH11	BORE HOLE LOCATIONS
	EXISTING SHORING
EX. BUILDING	REQUESTED PIT LOCATIONS TO VERIFY EXISTING BUILDING/ FOUNDATION (IF REQUIRED)

TARRA UTILITY LEGENDS

WAS_MAIN	COLOR 30
SANITARY	COLOR 210
STORM	COLOR 150
WATER	COLOR 150
HYDRO	COLOR 12
TELE	COLOR 30
ROGERS	COLOR 210
LINE_TYPE_ORDY	COLOR 30
DEFPOINTS_LAYER	COLOR 149

4274 DUNDAS STREE

SHORING PLAN

SCALE 1:100

TOP OF SHORING SHOWN THUS .....

BASE OF CUT SHOWN THUS .....

No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

NOTES

THIS DRAWING IS THE SOLE PROPERTY OF TARRA ENGINEERING INC. AND MAY NOT BE REPRODUCED IN ANY WAY SHAPE OR FORM WITHOUT THE WRITTEN PERMISSION OF TARRA ENGINEERING INC.

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS IT IS SPECIFICALLY STATED IN THE REVISIONS COLUMN THAT IT HAS BEEN ISSUED FOR CONSTRUCTION.

DO NOT SCALE THIS DRAWING.

LICENSED PROFESSIONAL ENGINEER
S. HEIDARI
DEC-15-2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

Tarra Engineering & Structural Consultants Inc.
2800-14th Ave., Suite 300
Markham,ON L3R 0E4
Tel: (905) 470-8952
Fax: (905) 248-3267

Project

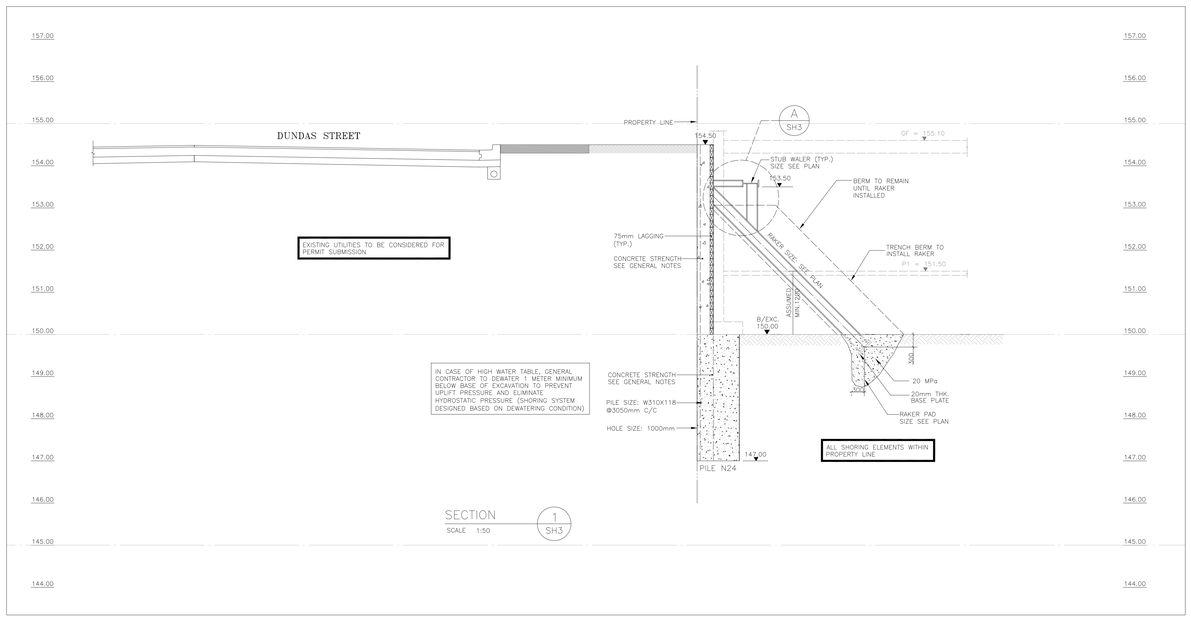
4274 DUNDAS STREE

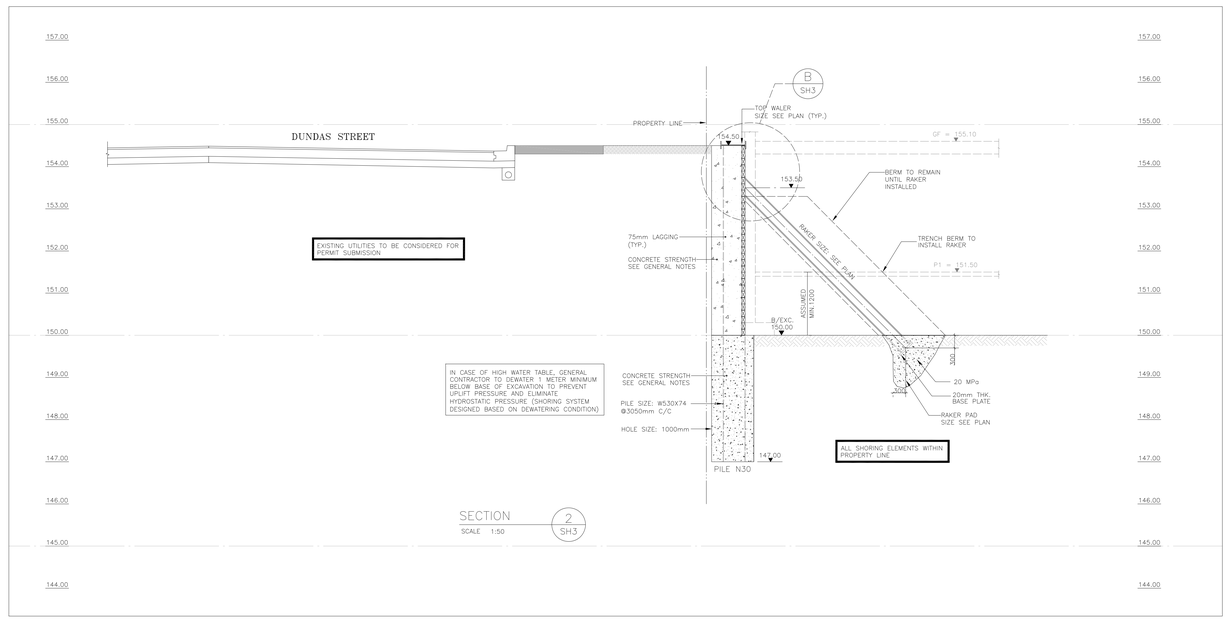
BURLINGTON ONTARIO

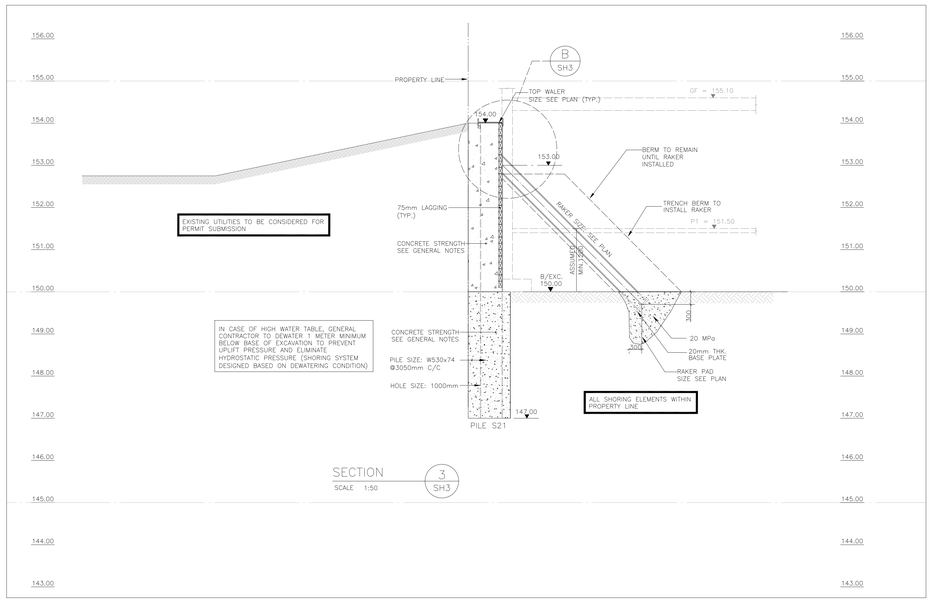
Drawing Title

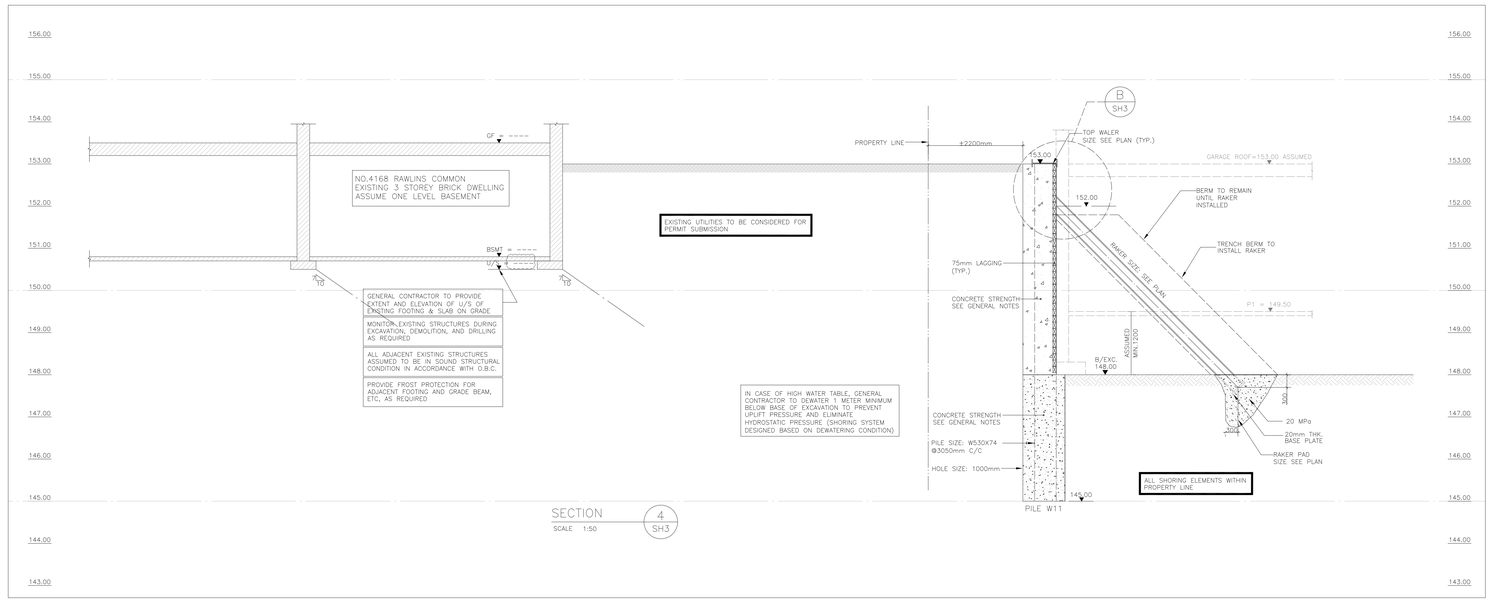
SHORING PLAN

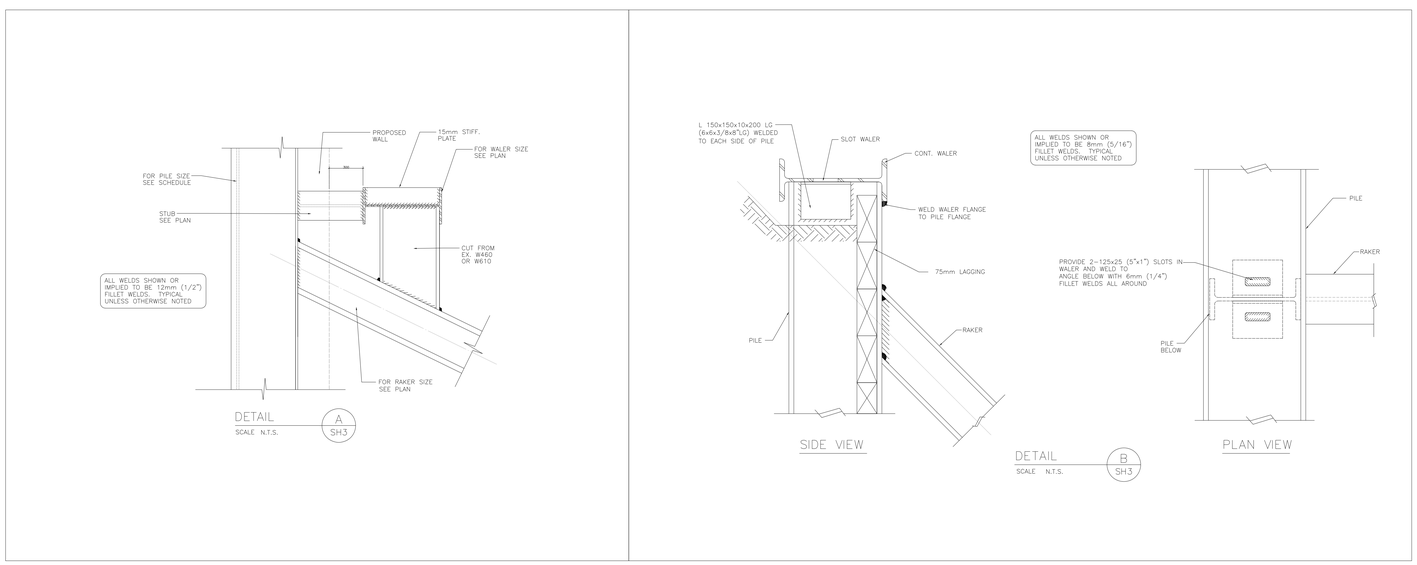
Drawn:	C.L.	Scale	AS NOTED
Checked:	L.Y.	Date	MAR 2020
Project No.	20141	Drawing Number	SH2











No.	DESCRIPTION	Date
1	ISSUED FOR ZONING SUBMISSION	DEC-15-2020

REVISION

NOTES

THIS DRAWING IS THE SOLE PROPERTY OF TARRA ENGINEERING AND STRUCTURAL CONSULTANTS INC. AND MAY NOT BE REPRODUCED IN ANY WAY SHAPE OR FORM WITHOUT THE WRITTEN PERMISSION OF TARRA ENGINEERING AND STRUCTURAL CONSULTANTS INC.

THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNLESS IT IS SPECIFICALLY STATED IN THE REVISIONS COLUMN THAT IT HAS BEEN ISSUED FOR CONSTRUCTION.

DO NOT SCALE THIS DRAWING.

Stamp

LICENSED PROFESSIONAL ENGINEER
S. HEIDARI
DEC.15 2020
PROVINCE OF ONTARIO

Client

MILLCROFT GREENS CORP.

BURLINGTON ONTARIO

Consultant

tarra

Tarra Engineering & Structural Consultants Inc.
2800-14th Ave., Suite 300
Markham ON L3R 0E4
Tel: (905) 470-0952
Fax: (905) 248-3267

Project

4274 DUNDAS STREE

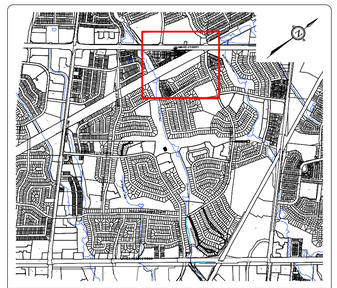
BURLINGTON ONTARIO

Drawing Title

SECTIONS & DETAILS

Drawn:	C.L.	Scale	AS NOTED
Checked:	L.Y.	Date	DEC. 2020
Project No.	20141	Drawing Number	SH3 1





KEY PLAN
N.T.S.

LEGEND:

- EXISTING CONTOURS & LABELS
- EXISTING SITE DRAINAGE BOUNDARY
- EXISTING EXTERNAL DRAINAGE BOUNDARY
- DRAINAGE DIRECTION
- EASEMENT
- EXISTING STORM SEWER AND MANHOLE
- PROPERTY LIMIT LINE
- 215 / 0.390 / 0.42 — AREA ID, WEIGHTED RUNOFF COEFFICIENT, DRAINAGE AREA
- EXISTING FLOODLINE

A. M. FATA
100159089
Dec/18/2020
LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

URBANTECH®

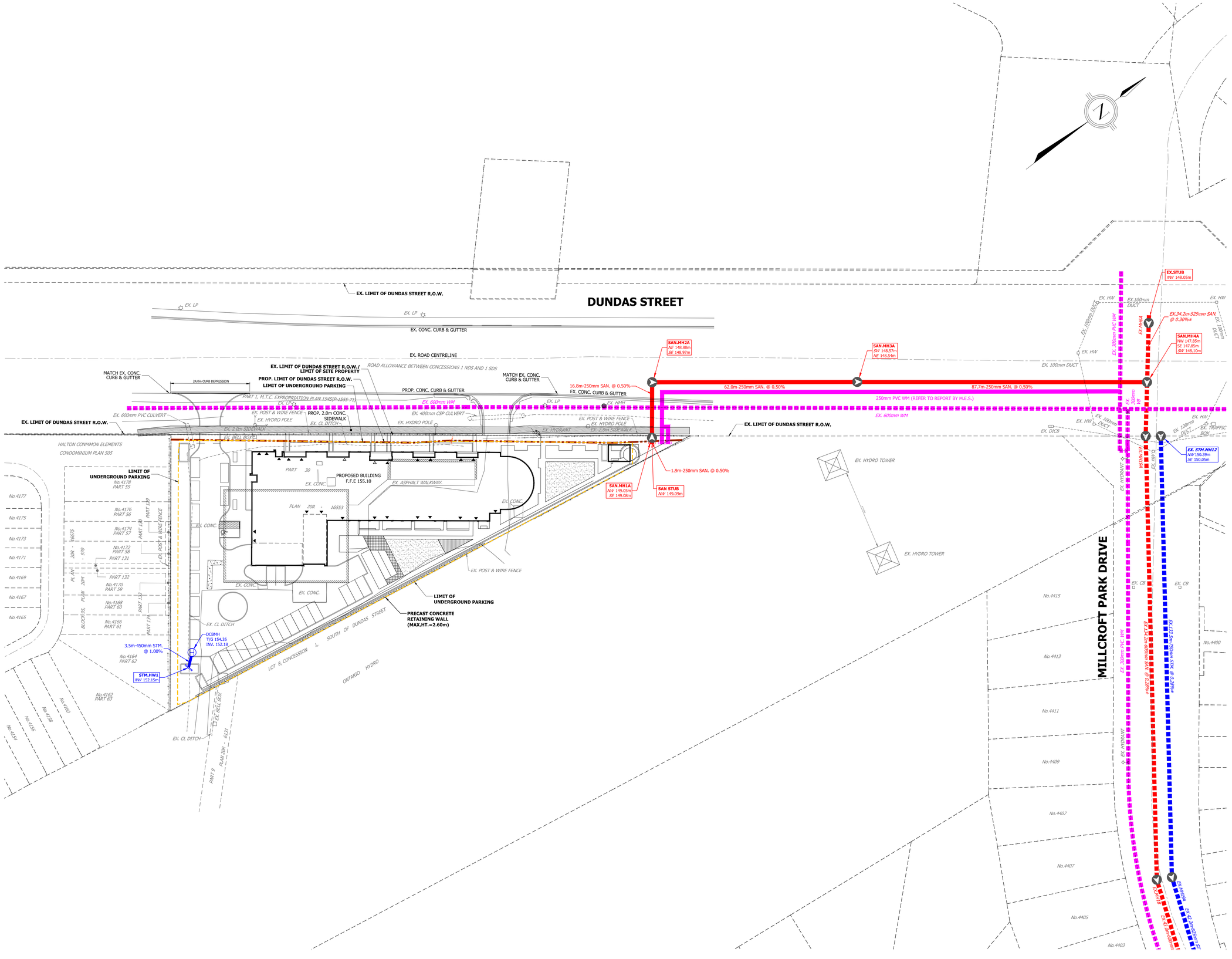
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7

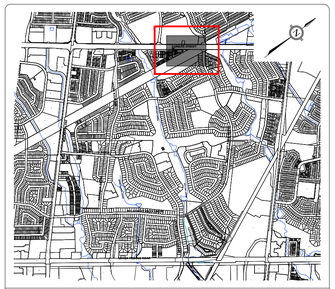
TEL 905.946.9461 • urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

EXISTING DRAINAGE PLAN
(PARCEL E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:750	EX-E





KEY PLAN
N.T.S.

LEGEND

- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- LIMIT OF UNDERGROUND PARKING
- LIMIT OF SITE PROPERTY

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100150059
Dec/18/2020
PROVINCE OF ONTARIO

BENCHMARK

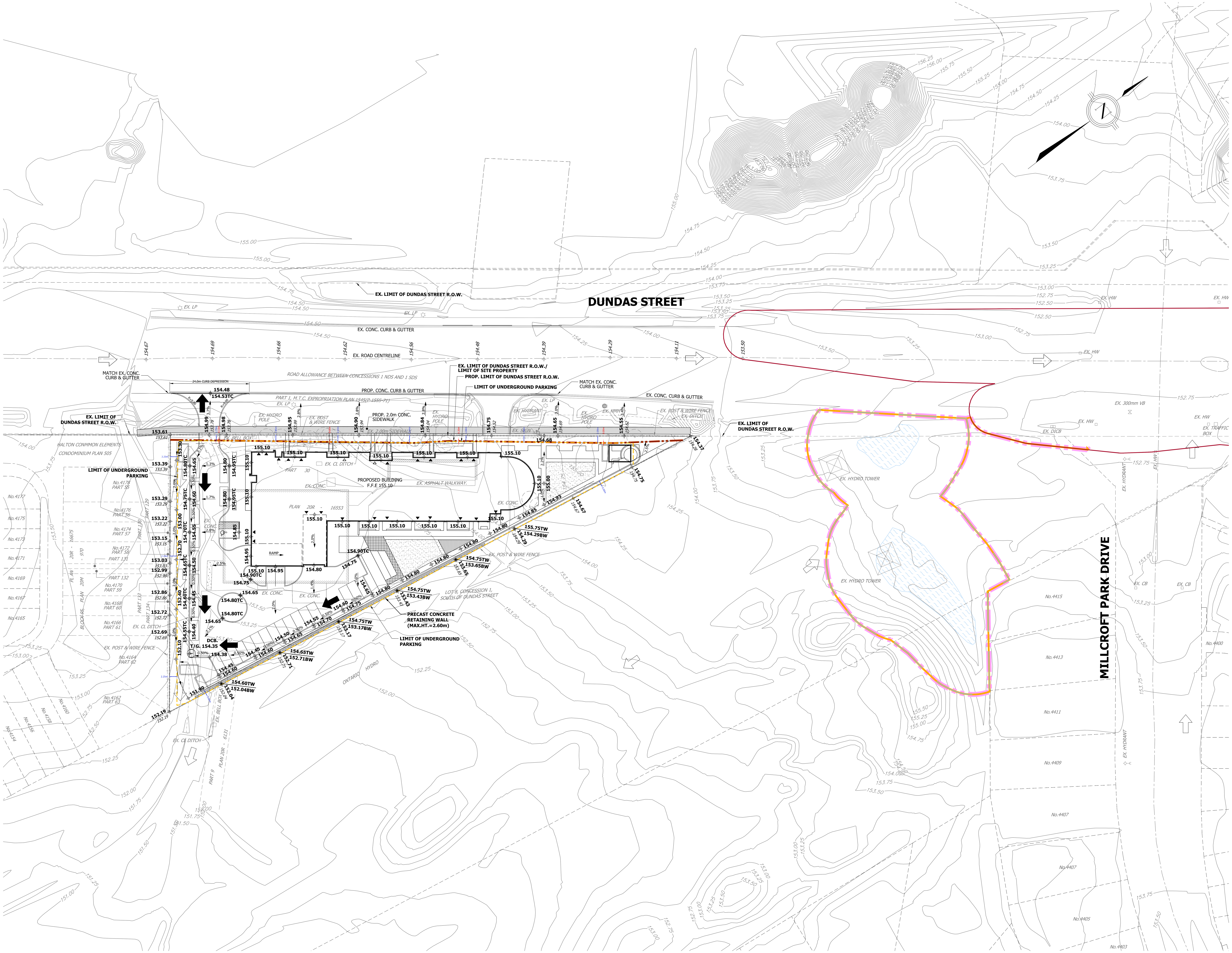
ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

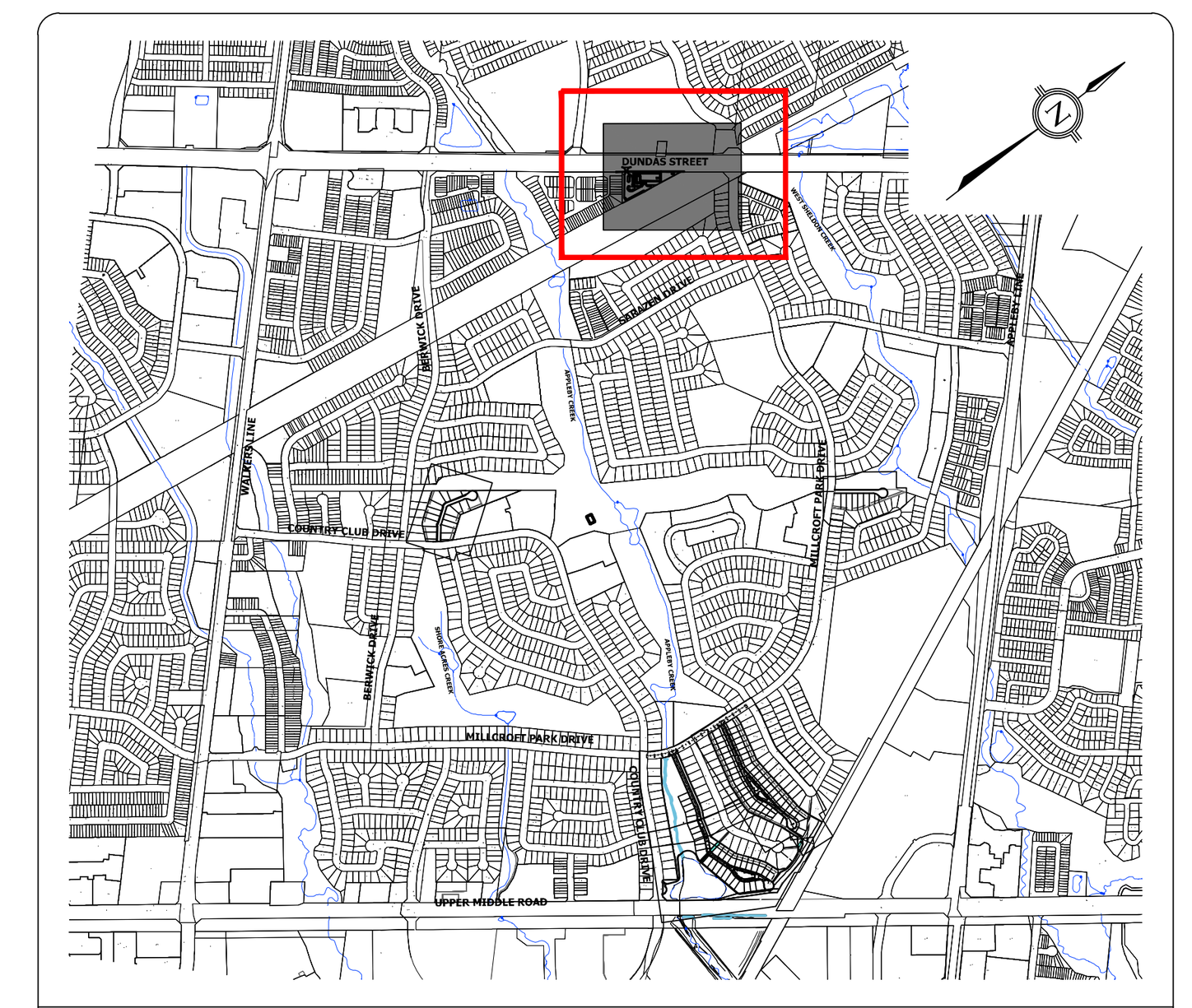
URBANTECH®
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 - urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

GENERAL PLAN
(AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	GP-E





KEY PLAN
N.T.S.

LEGEND

252.55	PROPOSED GRADE
252.74	EXISTING GRADE
252.82 / 125.54	PROPOSED AND EXISTING GRADE
124.00	EXISTING CONTOUR & ELEVATION
	MAJOR OVERLAND FLOW
	EXISTING MAJOR OVERLAND FLOW
	EXISTING DEVELOPMENT CONSTRAINT LIMIT
	PROPOSED DEVELOPMENT CONSTRAINT LIMIT
	PROPOSED LIMIT OF DUNDAS STREET R.O.W.
	LIMIT OF UNDERGROUND PARKING
	LIMIT OF SITE PROPERTY
	WETLANDS (BEACON)
	WETLANDS (BEACON) + 15m
	FLOODPLAIN (CH) + 7.5m
4.20m	LIMIT OF UNDERGROUND PARKING TO EX. LIMIT OF DUNDAS STREET R.O.W. / LIMIT OF SITE PROPERTY
4.20m	LIMIT OF UNDERGROUND PARKING TO PROP. LIMIT OF DUNDAS STREET R.O.W.

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

URBANTECH®
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 • urbantech.com

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
DEC 15, 2020
PROVINCE OF ONTARIO

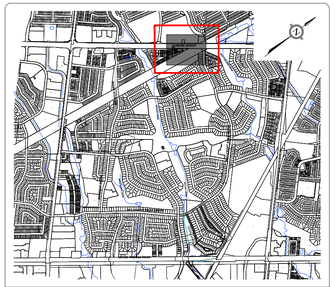
MILLCROFT GREEN
CITY OF BURLINGTON

GRADING PLAN
(AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	GR-E







KEY PLAN
N.T.S.

LEGEND

- 252.55 — PROPOSED GRADE
- 252.74 — EXISTING GRADE
- 252.82 / 125.54 — PROPOSED AND EXISTING GRADE
- 124.00 — EXISTING CONTOUR & ELEVATION
- MAJOR OVERLAND FLOW
- EXISTING MAJOR OVERLAND FLOW
- PROPOSED VEGETATED FILTER STRIP
- PROPOSED ENHANCED SWALE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- LIMIT OF UNDERGROUND PARKING
- LIMIT OF SITE PROPERTY

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978).
BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

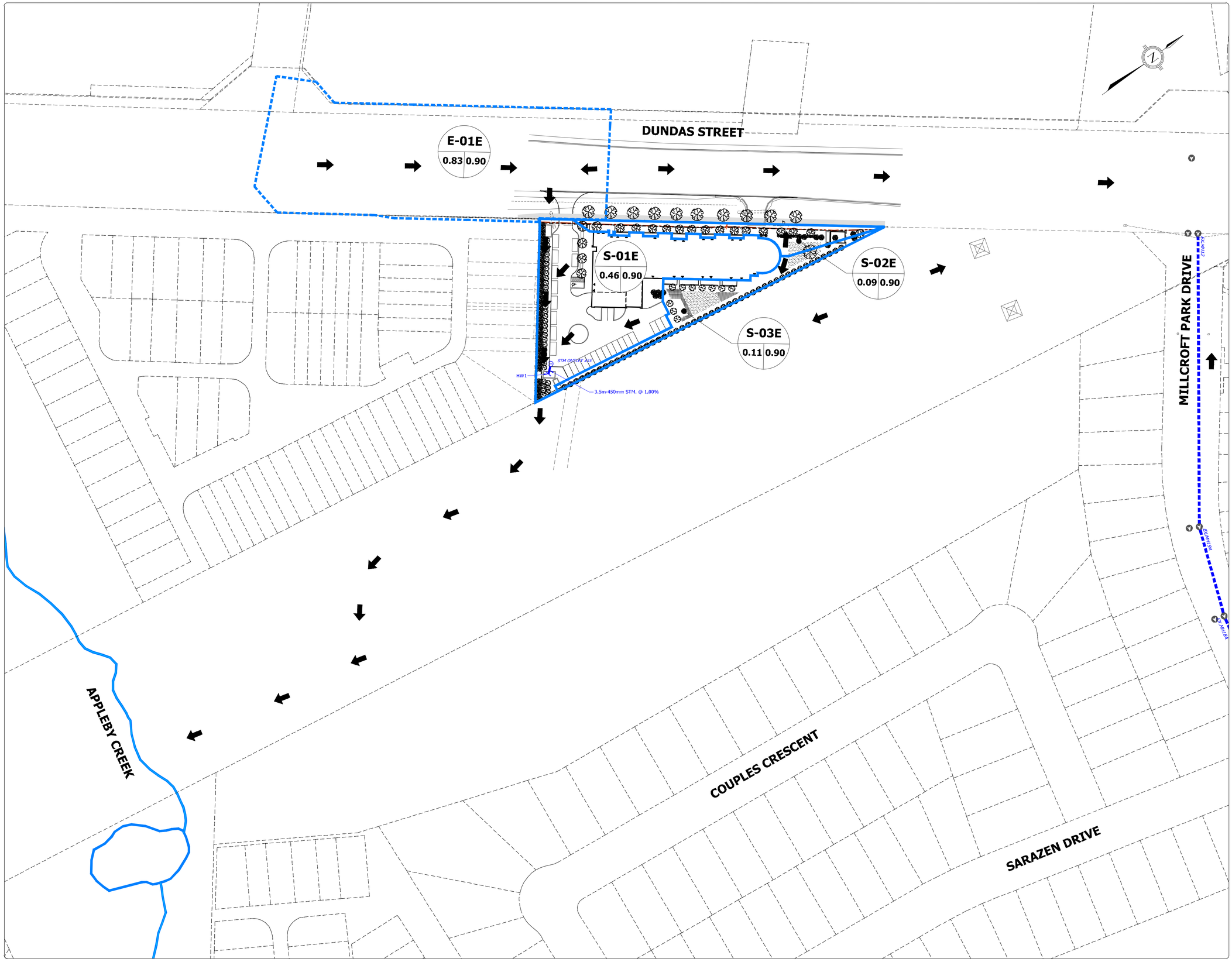
URBANTECH®

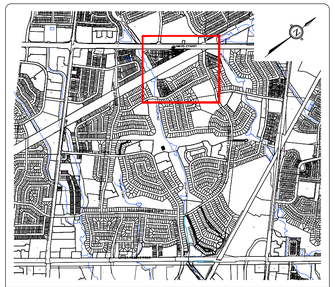
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 • urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

CONCEPTUAL LID PLAN
(AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:500	LID-E





KEY PLAN
N.T.S.

LEGEND:

- EXISTING CONTOURS & LABELS
- PROPOSED SITE DRAINAGE BOUNDARY
- PROPOSED EXTERNAL DRAINAGE BOUNDARY
- DRAINAGE DIRECTION
- EASEMENT
- PROPOSED STORM SEWER AND MANHOLE
- EXISTING STORM SEWER AND MANHOLE
- PROPERTY LIMIT LINE
- 215 (0.900) AREA ID
- WEIGHTED RUNOFF COEFFICIENT
- DRAINAGE AREA

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

BENCHMARK

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE CITY OF BURLINGTON VERTICAL BENCHMARK NUMBER 414 HAVING AN ORTHOMETRIC ELEVATION OF 139.893 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978). BRASS PLAQUE SET ON SOUTHWEST CORNER OF WING WALL OF CULVERT 0.50m FROM SOUTH END AND 0.13m BELOW TOP OF WALL ON MILLCROFT PARK DRIVE AND APPROXIMATELY 40m EAST OF COUNTRY CLUB DRIVE ON THE SOUTH SIDE OF THE ROAD.

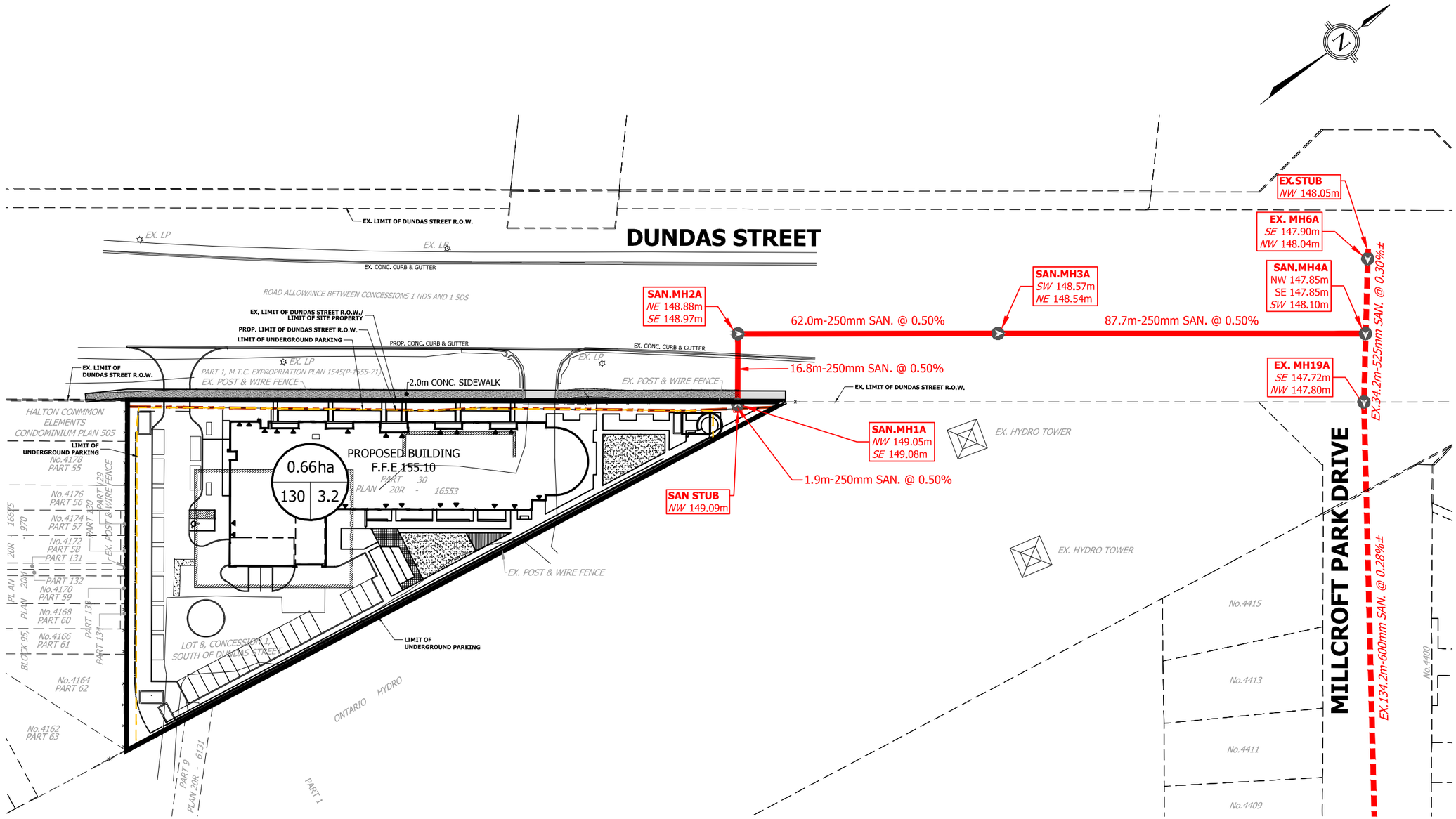
URBANTECH®

Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 • urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

PROPOSED DRAINAGE PLAN
(PARCEL E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:750	PR-E





KEY PLAN
N.T.S.

LEGEND

- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- 0.32ha — DRAIANGE AREA
- 10 | 3.2 — POPULATION PER UNIT / UNITS
- SANITARY DRAINAGE AREA
- SITE BOUNDARY
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- LIMIT OF UNDERGROUND PARKING

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

URBANTECH®
Urbantech® Consulting
A Division of Leighton-Zac Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 - urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

SANITARY DRAINAGE PLAN (AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:1000	SAN-E

DUNDAS STREET

EX. LIMIT OF DUNDAS STREET R.O.W.

EX. LIMIT OF DUNDAS STREET R.O.W./
LIMIT OF SITE PROPERTY
PROP. LIMIT OF DUNDAS STREET R.O.W.
LIMIT OF UNDERGROUND PARKING

ROAD ALLOWANCE BETWEEN CONCESSIONS 1 NDS AND 1 SDS

PROP. CONC. CURB & GUTTER

PROP. 2.0m CONC. SIDEWALK

EX. 600mm PVC CULVERT

EX. 400mm CSP CULVERT

EX. LP

EX. POST & WIRE FENCE

PART 1, M.T.C. EXPROPRIATION PLAN 1545(P-1555-71)

HALTON COMMON ELEMENTS CONDOMINIUM PLAN 505

LIMIT OF UNDERGROUND PARKING

E01-E
0.83 | 0.90

0.46ha
0.90

PROPOSED BUILDING
F.F.E 155.10

PART 30 PLAN 20R - 16553

0.09ha
0.90

0.11ha
0.90

EX. HYDRO TOWER

EX. DCB

EX. MH12
SE 150.05m

MILLCROFT PARK DRIVE

EX. CB

EX. CB

EX. CL DITCH

PROPOSED SWALE

LOT 8, CONCESSION 1, SOUTH OF DUNDAS STREET

ONTARIO HYDRO

LIMIT OF UNDERGROUND PARKING

STM OUTLET #1E
3.5m-450mm
STM. @ 1.00%

RCBMH

STM.HW1

No.4415

No.4413

No.4411

No.4409

No.4400

No.4162 PART 63

No.4164 PART 62

No.4166 PART 61

No.4168 PART 60

No.4170 PART 59

No.4172 PART 58

No.4174 PART 57

No.4176 PART 56

PART 55

PART 131

PART 132

PART 138

PART 134

PART 129

PART 1

PART 2

PART 3

PLAN 20R - 6131

PLAN 20R - 16675

BLOCK 95, PLAN 20M

PL. AN 20M

970

ALLOWABLE 100-YR CONSTANT FLOW = 0.521m³/s

EX DUNDAS STREET E-01E:
AREA = 0.83
R.C. = 0.90
100-YR CONSTANT FLOW = 0.213m³/s

PROP. SITE PLAN
AREA = 0.46
RC = =.90
100-YR CONSTANT FLOW = 0.118m³/s

TOTAL 100-YR CONSTANT FLOW = 0.331m³/s



KEY PLAN
N.T.S.

LEGEND

- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- STORM DRAINAGE AREA
- EXTERNAL STORM DRAINAGE AREA
- 124.00 — EXISTING CONTOUR & ELEVATION
- MAJOR OVERLAND FLOW ARROW
- EXISTING OVERLAND FLOW ARROW
- BLK 1, Q=0.012m³/s — CATCHMENT ID / ALLOWABLE RELEASE RATE *APPLIES TO BLOCKS WHERE THE 100Yr FLOWS ARE CONTROLLED TO THE MINOR SYSTEM STORM CAPACITY
- 0 / 0 — AREA (ha) / RUNOFF COEFFICIENT
- E02-C, 0.43 | 0.40 — EXISTING AREA ID / EXISTING RUNOFF COEFFICIENT / EXISTING AREA (ha)
- SITE BOUNDARY
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- LIMIT OF UNDERGROUND PARKING

URBANTECH®

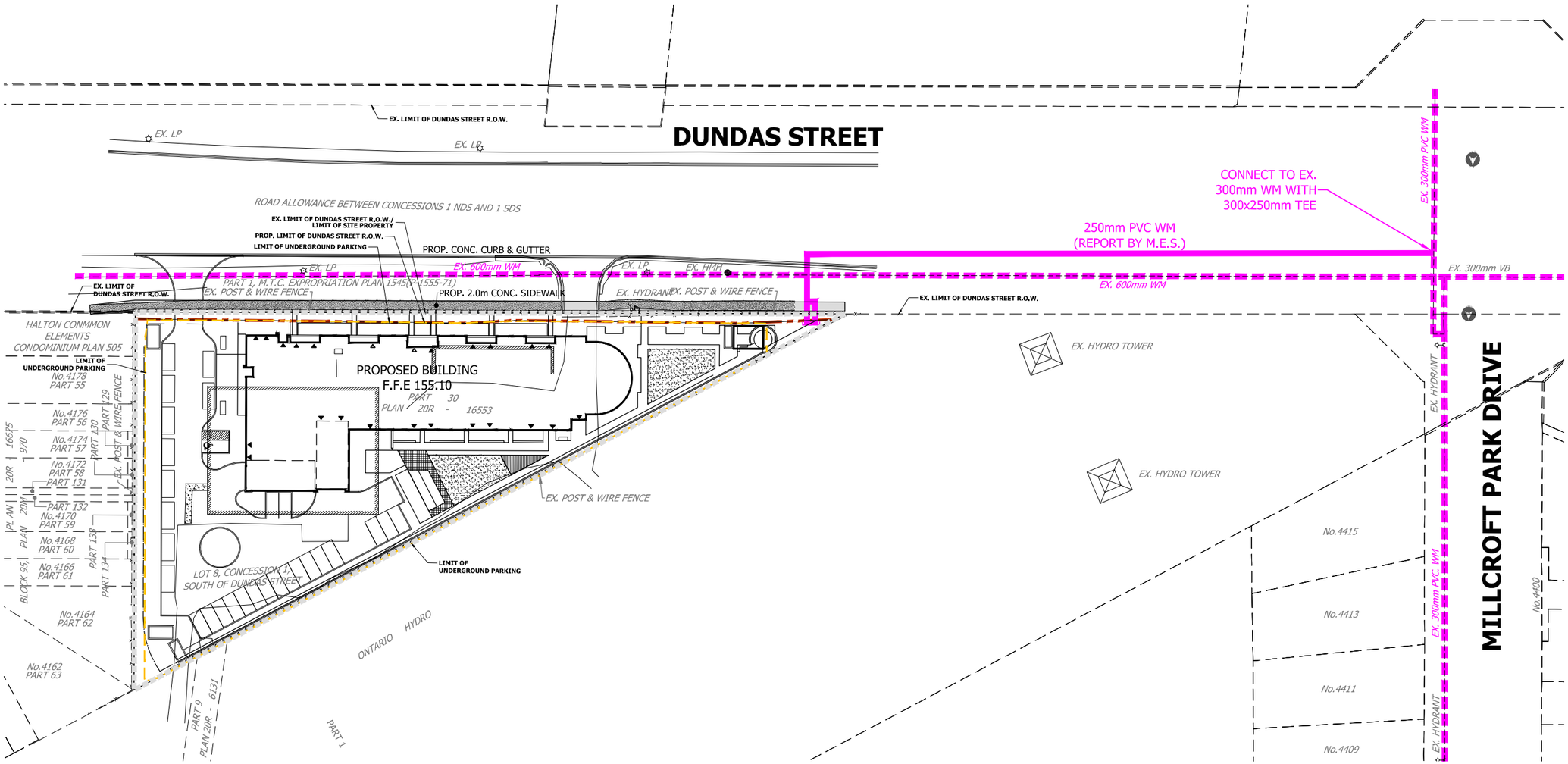
Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 - urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

STORM DRAINAGE PLAN
(AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:1000	STM-E

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO





KEY PLAN
N.T.S.

LEGEND

- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- SITE BOUNDARY
- PROPOSED LIMIT OF DUNDAS STREET R.O.W.
- LIMIT OF UNDERGROUND PARKING
- HYDRANT AND VALVE
- VALVE AND BOX

LICENSED PROFESSIONAL ENGINEER
A. M. FATA
100159069
Dec/18/2020
PROVINCE OF ONTARIO

URBANTECH®

Urbantech® Consulting
A Division of Leighton-Zec Ltd.
3760 14th Avenue, Suite 301,
Markham, ON. L3R 3T7
TEL 905.946.9461 - urbantech.com

MILLCROFT GREEN
CITY OF BURLINGTON

WATER DISTRIBUTION PLAN (AREA E)

PROJECT No.	DATE	SCALE	DWG No.
17-526	DEC. 2020	1:1000	WM-E