

THE REGIONAL MUNICIPALITY OF DURHAM

ARIAL (250 = 5.5, 500 = 11.0)

WORKS DEPARTMENT
ROAD NAME (REGIONAL ROAD XX)
ROAD, SANITARY SEWER AND WATERMAIN CONSTRUCTION
CITY OF XXXX



CONTRACT NO. D20XX-XX

ARIAL (250 = 4.25, 500 = 8.5)

USE THE 'DRAWING INDEX' TEMPLATE DRAWING TO INDEX DRAWING NUMBERS IF A CONTRACT HAS TOO MANY SHEETS TO BE INDEXED ON THIS PAGE

RomanS (250 = 1.30 , 500 = 2.60)

— PROJECT —

ROADWORKS:

RECONSTRUCTION OF RITSON ROAD (REG. RD. 16) FROM 50 m SOUTH OF ST. ELOI AVENUE TO RICHMOND STREET

SANITARY SEWERS:

CONSTRUCTION OF A 375 mm VITRIFIED CLAY SANITARY SEWER ON RITSON ROAD (REG RD. 16) FROM EULALIE AVENUE TO KING STREET

CONSTRUCTION OF A 200 mm PVC SANITARY SEWER ON RITSON ROAD (REG RD. 16) FROM ST. ELOI AVENUE TO EULALIE AVENUE.

WATERMAINS:

CONSTRUCTION OF A 300 mm PVC WATERMAIN ON RITSON ROAD (REG. RD. 16) FROM ST. ELOI AVENUE TO RICHMOND STREET



RomanS (250 = 1.30, 500 = 2.60)

— INDEX TO DRAWING NUMBERS —

RomanS (250 = 1.10 , 500 = 2.20)

1

2

3

4

5

6

7

8

X-0X-SW-XXX

X-0X-SW-XXX

X-0X-SW-XXX

X-0X-R-XXX

X-0X-R-XXX

TITLE SHEET

LEGENDS AND ABBREVIATIONS

RITSON RD. (REG. RD. 16) FROM ST. ELOI AVE. TO EULALIE AVE.

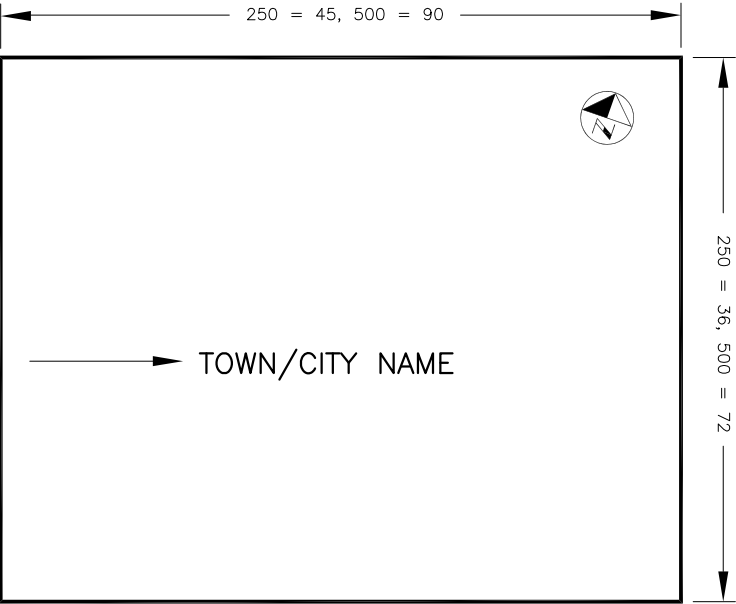
RITSON RD. S. (REG. RD. 16) FROM EULALIE AVE. TO ATHOL ST. E.

RITSON RD. (REG. RD. 16) FROM ATHOL ST. E. TO RICHMOND ST. E.

RITSON RD. (REG. RD. 16) FROM 50 m S. OF ST. ELOI AVE. TO 50 m N. OF EULALIE AVE.

RITSON RD. (REG. RD. 16) FROM 50 N. OF EULALIE AVE. TO RICHMOND ST. E.

STANDARD DRAWINGS



RomanS (250 = 1.30, 500 = 2.60)

TOWN/CITY NAME

SHEET SIZE A1 (594 mm X 841 mm)

KEY PLAN

N.T.S.

RomanS (250 = 1.30, 500 = 2.60)

RomanS (250 = 0.75, 500 = 1.50)

ARIAL (250 = 0.90, 500 = 1.80)

RomanS (250 = 0.75, 500 = 1.50)

ARIAL (250 = 3.2, 500 = 6.4)

METRIC PROJECT
ALL DIMENSIONS
AND QUANTITIES
IN METRIC UNITS

RomanS (250 = 0.90, 500 = 1.80)

SHEET 1 OF -

FONT (SCALE = HEIGHT, SCALE = HEIGHT)

[illegible][illegible][illegible]

ABBREVIATIONS

ALUM	ALUMINUM	MH	MAINTENANCE HOLE
APT	APARTMENT	MAX	MAXIMUM
AC	ASBESTOS CEMENT	MJ	MECHANICAL JOINT
ASPH	ASPHALT	MPa	MEGAPASCAL
Ⓐ	AT	m	METRE
AVE	AVENUE	m2	SQUARE METRE
		m3	CUBIC METRE
BED	BEDDING	mm	MILLIMETRE
BP	BELL POLE	MIN	MINIMUM
BM	BENCH MARK		
BLVD	BOULEVARD	N	NORTH
BR	BRICK	NTS	NOT TO SCALE
BLDG	BUILDING	NO	NUMBER
BV	BUTTERFLY VALVE		
		OD	OUTSIDE DIAMETER
CSA	CANADIAN STANDARDS ASSOCIATION		
CI	CAST IRON	PAVT	PAVEMENT
CB	CATCH BASIN	%	PERCENTAGE
CBMH	CATCH BASIN MAINTENANCE HOLE	PTP	PERMANENT TURNING POINT
℄	CENTRE LINE	PI	POINT OF INTERSECTION
C/C	CENTRE TO CENTRE	PE	POLYETHYLENE
CV	CHECK VALVE	PVC	POLYVINYL CHLORIDE
CL	CLASS	℄	PROPERTY LINE
CONC	CONCRETE	PROP	PROPOSED
CML	CONCRETE MORTAR LINED		
CPP	CONCRETE PRESSURE PIPE	REINF	REINFORCED
CONN	CONNECTION	RC	REINFORCED CONCRETE
CPT	CONTROL POINT	REST	RESTAURANT
CSP	CORRUGATED STEEL PIPE	ROW	RIGHT-OF-WAY
CRES	CRESCENT	RD	ROAD
CU	CUBIC		
CULV	CULVERT	SI	INTERNATIONAL SYSTEM OF UNITS
		SAN	SANITARY
DEPT	DEPARTMENT	ST	SEPTIC TANK
DIA, ∅	DIAMETER	SC	SERVICE CONNECTION
DICB	DITCH INLET CATCH BASIN	SHLD	SHOULDER
DCB	DOUBLE CATCH BASIN	S/W	SIDEWALK
DWG	DRAWING	SQ	SQUARE
DR	DRIVEWAY	SIB	STANDARD IRON BAR
DI	DUCTILE IRON	SS	STAINLESS STEEL
		STD	STANDARD
E	EAST	STA	STATION
EP	EDGE OF PAVEMENT	S	STONE OR SOUTH
EL	ELEVATION	STM	STORM
ENT	ENTRANCE	STY	STOREY
ES	EDGE OF SHOULDER	ST	STREET
EX	EXISTING	S TR	SURFACE TREATED
FTY	FACTORY	TAN	TANGENT
FM	FORCEMAIN	TV	TELEVISION CABLE
FR	FRAME	TB	THRUST BLOCK
		TWP	TOWNSHIP
GALV	GALVANIZED	TC	TRAFFIC CONDUIT
GAR	GARAGE	TLP	TRAFFIC LIGHT POLE
G-HP	GAS-HIGH PRESSURE	TS	TRAFFIC SIGN
GV	GAS VALVE OR GATE VALVE	TR	TRANSFORMER
GBM	GEODETIC BENCHMARK	TYP	TYPICAL
GRAN	GRANULAR	TJ	TYTON JOINT
GR	GRAVEL OR GRADE		
GP	GUY POLE	V CH	VALVE CHAMBER
		VERT	VERTICAL
HH	HANDHOLE	VPI	VERTICAL POINT OF INTERSECTION
HWL	HIGH WATER LEVEL	VC	VITRIFIED CLAY
HWY	HIGHWAY		
HORIZ	HORIZONTAL	WL	WATER LEVEL
HSE	HOUSE	WM	WATERMAIN
HOT	HUB ON TANGENT	WPCP	WATER POLLUTION CONTROL PLAN
HYD	HYDRANT	WS	WATER SERVICE
HLP	HYDRO LIGHT POLE	WSP	WATER SUPPLY PLANT
HP	HYDRO POLE	WV	WATER VALVE
		W	WEST
ID	INSIDE DIAMETER		
INV	INVERT		
IB	IRON BAR		
IP	IRON PIPE		
kg	KILOGRAM		
kPa	KILOPASCAL		
LS	LIGHT STANDARD		
LWL	LOW WATER LEVEL		

LEGEND

TOPOGRAPHY

SLOPE IN PLAN

CLEARING

CLEARING & GRUBBING

GRUBBING

TREE, SIZE – DECIDUOUS & CONIFEROUS

HEDGE

TREE LINE OR BUSH

SWAMP

WATERCOURSE & DIRECTION OF FLOW

ANSI31 (4.25) (0')

CL&GB (1.00) (0')

DASH (3.50) (135°)

SPECIAL LINES (TREE LINE)
WIDTH OF ARC = 1
HEIGHT OF ARC = 0.25
OVERLAP OF ARC = 0.1

200mm

TREE SIZES ONLY
IF NECESSARY

WIDTH OF 0.5m

LARGER THAN 0.5m

SPECIAL LINES (TREE LINE)
WIDTH OF ARC = 2
HEIGHT OF ARC = 0.5
OVERLAP OF ARC = 0.2

DASH (2.50) (0°)

The diagram illustrates various topography symbols and standards. It includes a vertical label 'TOPOGRAPHY' on the left. The symbols are listed on the left: SLOPE IN PLAN, CLEARING, CLEARING & GRUBBING, GRUBBING, TREE, SIZE – DECIDUOUS & CONIFEROUS, HEDGE, TREE LINE OR BUSH, SWAMP, and WATERCOURSE & DIRECTION OF FLOW. To the right of these are the corresponding symbols and their standards. The standards are: ANSI31 (4.25) (0') for SLOPE IN PLAN, CL&GB (1.00) (0') for CLEARING, DASH (3.50) (135°) for CLEARING & GRUBBING, SPECIAL LINES (TREE LINE) with WIDTH OF ARC = 1, HEIGHT OF ARC = 0.25, and OVERLAP OF ARC = 0.1 for GRUBBING, a tree symbol with a 200mm scale for TREE, SIZE – DECIDUOUS & CONIFEROUS, a dashed line with a width of 0.5m for HEDGE, a dashed line with a width of 0.5m for TREE LINE OR BUSH, a dashed line with a width of 0.5m for SWAMP, and a dashed line with a width of 0.5m for WATERCOURSE & DIRECTION OF FLOW. A note 'TREE SIZES ONLY IF NECESSARY' is also present.

LEGEND

SANITARY	SANITARY SEWER & SIZE – PROPOSED
	SANITARY SEWER , SIZE & MATERIAL – EXISTING
	SANITARY FORCEMAIN & SIZE – PROPOSED
	SANITARY FORCEMAIN, SIZE & MATERIAL – EXISTING
	SANITARY MAINTENANCE HOLE & LABEL – PROPOSED
	SANITARY MAINTENANCE HOLE & LABEL – EXISTING

STORM SEWER & SIZE – PROPOSED

STORM SEWER & SIZE – EXISTING

SUB–DRAINAGE PIPE – PROPOSED

STORM MAINTENANCE HOLE, COVER LOCATION & LABEL – PROPOSED

STORM MAINTENANCE HOLE, & LABEL – EXISTING

CATCH BASIN MAINTENANCE HOLE, COVER LOCATION & LABEL – PROPOSED

CATCH BASIN MAINTENANCE HOLE & LABEL – EXISTING

CATCH BASIN & LABEL – PROPOSED

CATCH BASIN & LABEL – EXISTING

DOUBLE CATCH BASIN & LABEL – PROPOSED

DOUBLE CATCH BASIN & LABEL – EXISTING

DITCH – PROPOSED

DITCH & CULVERT, SIZE – EXISTING

WATERMAIN & SIZE – PROPOSED
WATERMAIN, SIZE & MATERIAL – EXISTING
WATERMAIN VALVE & LABEL– PROPOSED
WATERMAIN VALVE & LABEL – EXISTING
HYDRANT, VALVE & LABEL – PROPOSED
HYDRANT, VALVE & LABEL – EXISTING
WATER SERVICE VALVE OR CURB STOP – EXISTING
REDUCER – PROPOSED
TRANSITION COUPLING – PROPOSED
PLUG – WATER, SEWER OR FORCEMAIN
WELL (WATER)

PAVEMENT & SIDEWALK	
	PAVEMENT – PROPOSED
	PAVEMENT REMOVAL – FULL DEPTH
	PAVEMENT REMOVAL – PARTIAL DEPTH
	CONCRETE SIDEWALK – PROPOSED
	SIDEWALK & TYPE – EXISTING
	GRAVEL AREA
	RIP RAP & GABION BASKETS
	PULVERIZING – EXISTING ASPHALT

UTILITIES	
	CABLE – UNDERGROUND
	CONDUIT – UNDERGROUND
	CABLE – AERIAL
	MAINTENANCE HOLE
	BELL & TELEVISION CABLE PEDESTAL OR MARKER
	TELEVISION CABLE – UNDERGROUND
	FIBRE OPTIC CABLE – UNDERGROUND
	GAS MAIN, SIZE, MATERIAL, VALVE & PRESSURE DESIGNATION

UTILITY POLES	
STEEL POLE	— PROPOSED
STEEL POLE	— EXISTING
CONCRETE POLE	— EXISTING
WOOD UTILITY POLE	— PROPOSED
WOOD UTILITY POLE	— EXISTING
FRANGIBLE BASE POLE	— PROPOSED
FRANGIBLE BASE POLE	— EXISTING
GUY POLE	— EXISTING

LEGEND

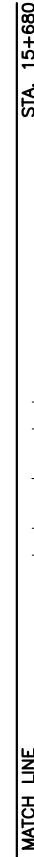
TRAFFIC CONDUIT (TC) & SIZE - PROPOSED	
TRAFFIC CONDUIT - EXISTING	
TRAFFIC SIGNAL CABLE, AERIAL WITH MESSENGER - PROP	
TRAFFIC SIGNAL CABLE, AERIAL - EXISTING	
GROUND ELECTRODE, PLATE OR ROD - PROPOSED	
GROUND ELECTRODE, PLATE OR ROD - EXISTING	
VEHICLE LOOP DETECTOR	
TRAFFIC SIGNAL CONTROLLER AND FOOTING - PROP OR RELOCATED	
TRAFFIC SIGNAL CONTROLLER AND FOOTING - EXISTING	
ELECTRICAL HANDHOLE, PRECAST CONCRETE 675mm DIA - PROPOSED	
ELECTRICAL HANDHOLE, PRECAST CONCRETE 675mm DIA - EXISTING	
ELECTRICAL HANDHOLE, NON CONCRETE 450mm DIA - PROPOSED	
ELECTRICAL HANDHOLE, NON CONCRETE 450mm DIA - EXISTING	
ELECTRICAL HANDHOLE, NON CONCRETE 370mm DIA - PROPOSED	
ELECTRICAL HANDHOLE, NON CONCRETE 370mm DIA - EXISTING	
ELECTRICAL HANDHOLE, NON CONCRETE RECTANGULAR - PROPOSED	
ELECTRICAL HANDHOLE, NON CONCRETE RECTANGULAR - EXISTING	
SUPPLY CONTROL CABINET - PROPOSED	
SUPPLY CONTROL CABINET - EXISTING	
COMMUNICATION PED	
TRAFFIC SIGN & FLASHING BEACON - PROPOSED	
TRAFFIC SIGN & FLASHING BEACON - EXISTING	
TRAFFIC SIGN - PROPOSED	
TRAFFIC SIGN - EXISTING	
LUMINAIRE - PROPOSED	
LUMINAIRE - EXISTING	
POST TOP LUMINAIRE - EXISTING	
PEDESTRIAN PUSH BUTTON	
PRE-EMPTION DETECTOR - PROPOSED	
PRE-EMPTION DETECTOR - EXISTING	
SIGNAL HEAD WITH BACKBOARD, MAST ARM & MAST ARM SIGN	
SIGNAL HEAD WITH BACKBOARD	
SIGNAL HEAD WITH BACKBOARD & SPANWIRE	
PEDESTRIAN SIGNAL HEAD WITH MOUNTING BRACKET	

- FENCE, POST & WIRE AND GATE
- FENCE, CHAIN LINK AND GATE
- FENCE, STOCK AND GATE
- GUIDE RAIL
- RAILWAY
- IRON BAR – SQUARE & ROUND
- BOREHOLE & NUMBER
- BASEMENT ELEVATION & MUNICIPAL ADDRESS
- BUILDING – ACTUAL LOCATION & MUNICIPAL ADDRESS
- BUILDING – WHEN LOCATED OUTSIDE DRAWING LIMITS

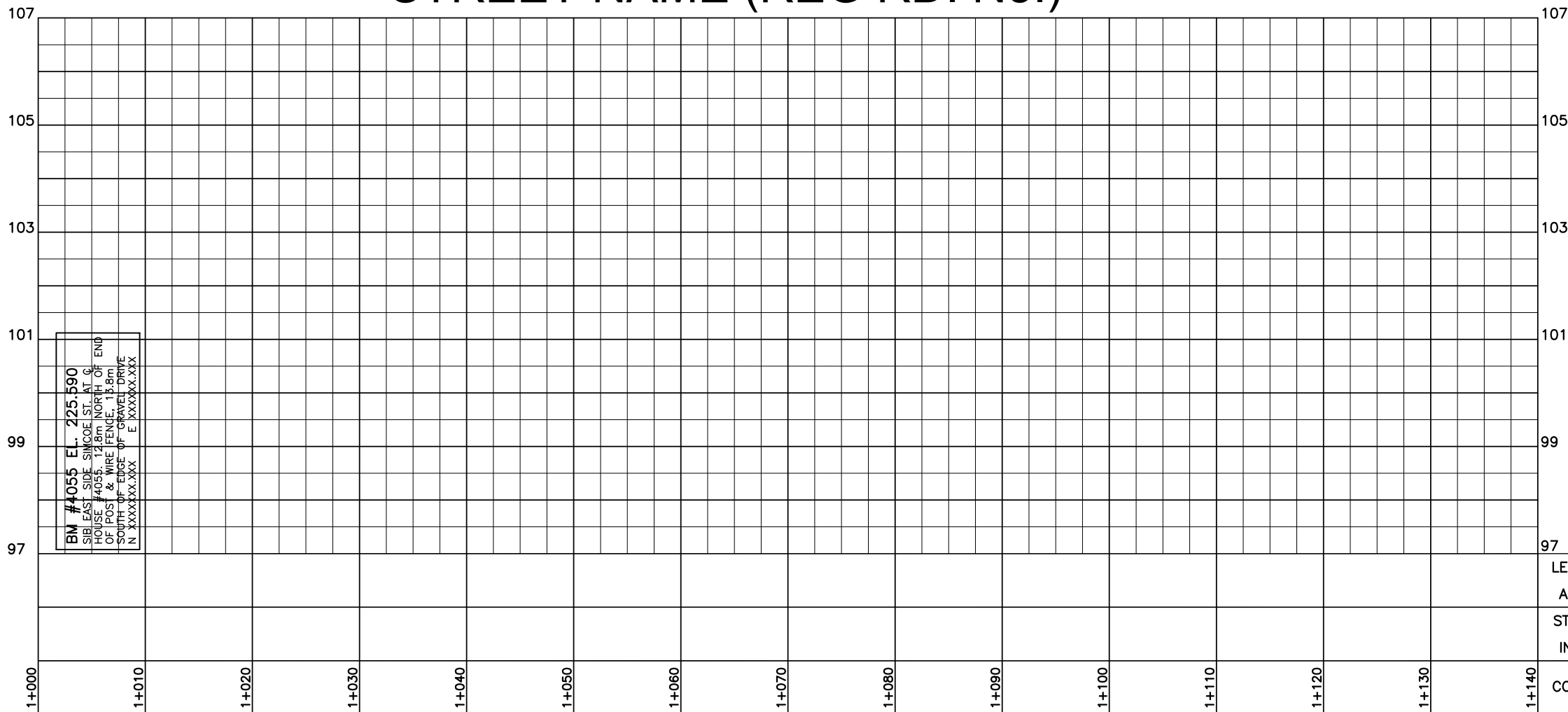
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DESIGN:	DATE:
CHECKED:	DATE:
APPROVED:	DATE:

	THE REGIONAL MUNICIPALITY	
	OF DURHAM	
	WORKS	DEPARTMENT
WHITBY	ONTARIO	

LEGEND AND ABBREVIATIONS		
CONCESSION —	REG. RD. NO. —	AREA MUNICIPALITY CITY OF XXX
DRAWING NUMBER LEG	CONTRACT NUMBER D20XX—XX	SHEET NUMBER 3 OF —



STREET NAME (REG RD. No.)

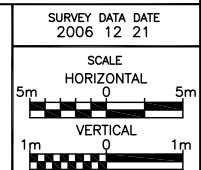
[illegible][illegible]

NOTES:

- 1.
- 2.

NO.	DATE	NAME	REVISIONS	
CABLE T.V.		XXXX XX XX	HYDRO	XXXX XX XX
BELL CANADA		XXXX XX XX	CITY OF XXXX	XXXX XX XX
ENBRIDGE GAS		XXXX XX XX		

APPROXIMATE UTILITY LOCATIONS ARE SHOWN PER MARK-UPS RECEIVED FROM THIRD PARTIES ON THE DATES NOTED ABOVE. CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES REQUIRE ADVANCE NOTICE PRIOR TO DIGGING, FOR STAKE OUT. THE REGION ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.



DRAWN: X. X	DATE: 2008 02
DESIGN: X. X	DATE: 2008 02
CHECKED: X. X	DATE: 2008 02
APPROVED: X. X	DATE: 2008 02

 THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
WHITBY ONTARIO

STREET NAME
FROM XX ST. TO XX ST.

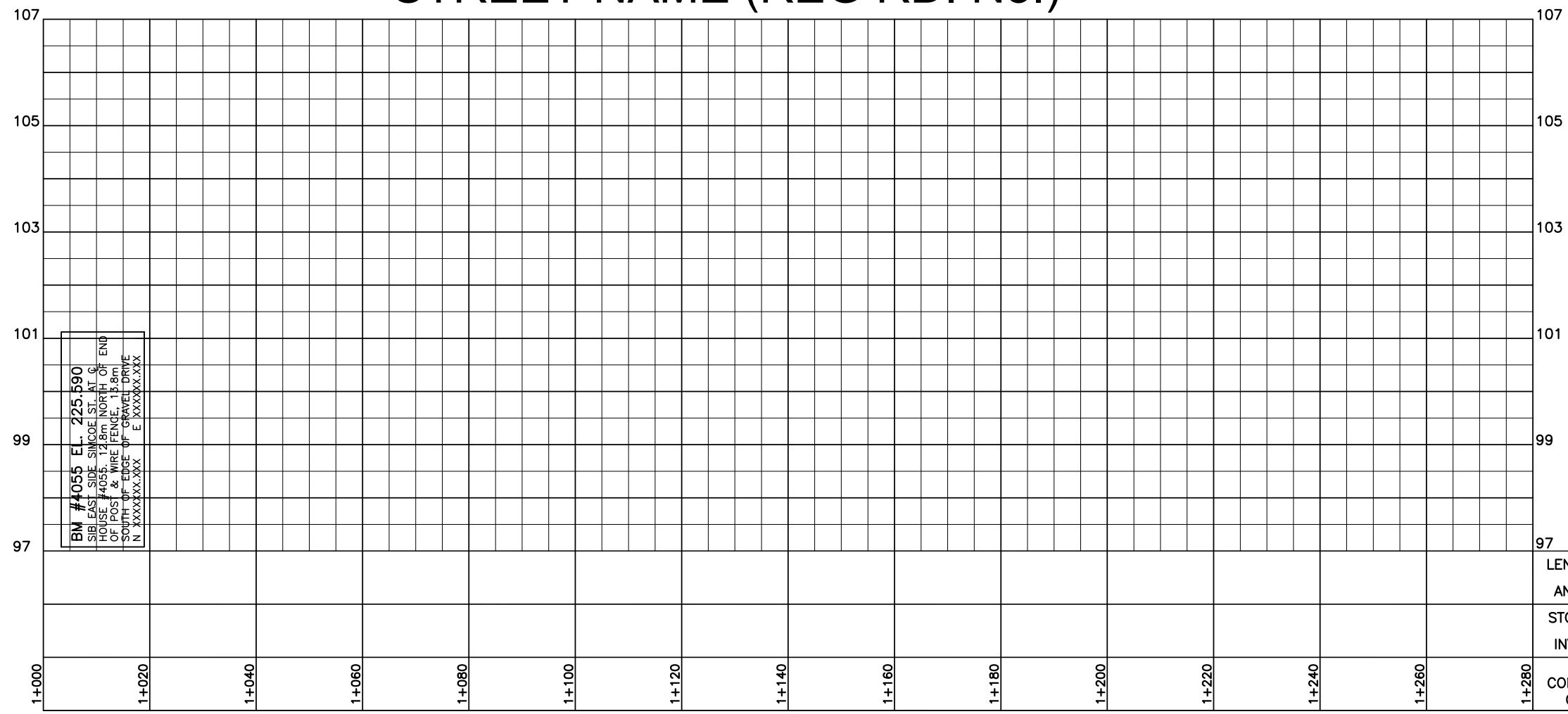
CONCESSION —	REG. RD. NO. —	AREA MUNICIPALITY CITY OF XXXX	
DRAWING NUMBER X-XX-R-XXX	CONTRACT NUMBER D20XX-XX		SHEET NUMBER X OF XX

NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED



STREET NAME

STREET NAME (REG RD. No.)



NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

05 ROAD & STORM SEWER PLAN AND PROFILE (SCALE 500) TEMPLATE DRAWING - JUNE 2021



PROPOSED WATERMAIN DATA			
MARK	DESCRIPTION	CHAINAGE	TOP OF WATERMAIN ELEVATION
X	XXXX	X+XXX.XX	XXX.XXX

NO.	DATE	NAME	REVISIONS
-----	------	------	-----------

LOCATION APPROVAL			
CITY OF XXXX	2004	01	01
CABLE T.V.	2004	01	01
BELL CANADA	2004	01	01
CONSUMERS GAS	2004	01	01

APPROXIMATE UTILITY LOCATIONS ARE SHOWN PER MARK-UPS RECEIVED FROM THIRD PARTIES ON THE DATES NOTED ABOVE. CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES REQUIRE ADVANCE NOTICE PRIOR TO DIGGING, FOR STAKE OUT. THE REGION ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

SURVEY DATA DATE
2004 01 01

SCALE
HORIZONTAL
5m 0 5m
VERTICAL
1m 0 1m

DRAWN: X. X	DATE: 2004 01
DESIGN: X. X	DATE: 2004 01
CHECKED: X. X	DATE: 2004 01
APPROVED: X. X	DATE: 2004 01



THE REGIONAL MUNICIPALITY
OF DURHAM
WORKS DEPARTMENT
WHITBY ONTARIO

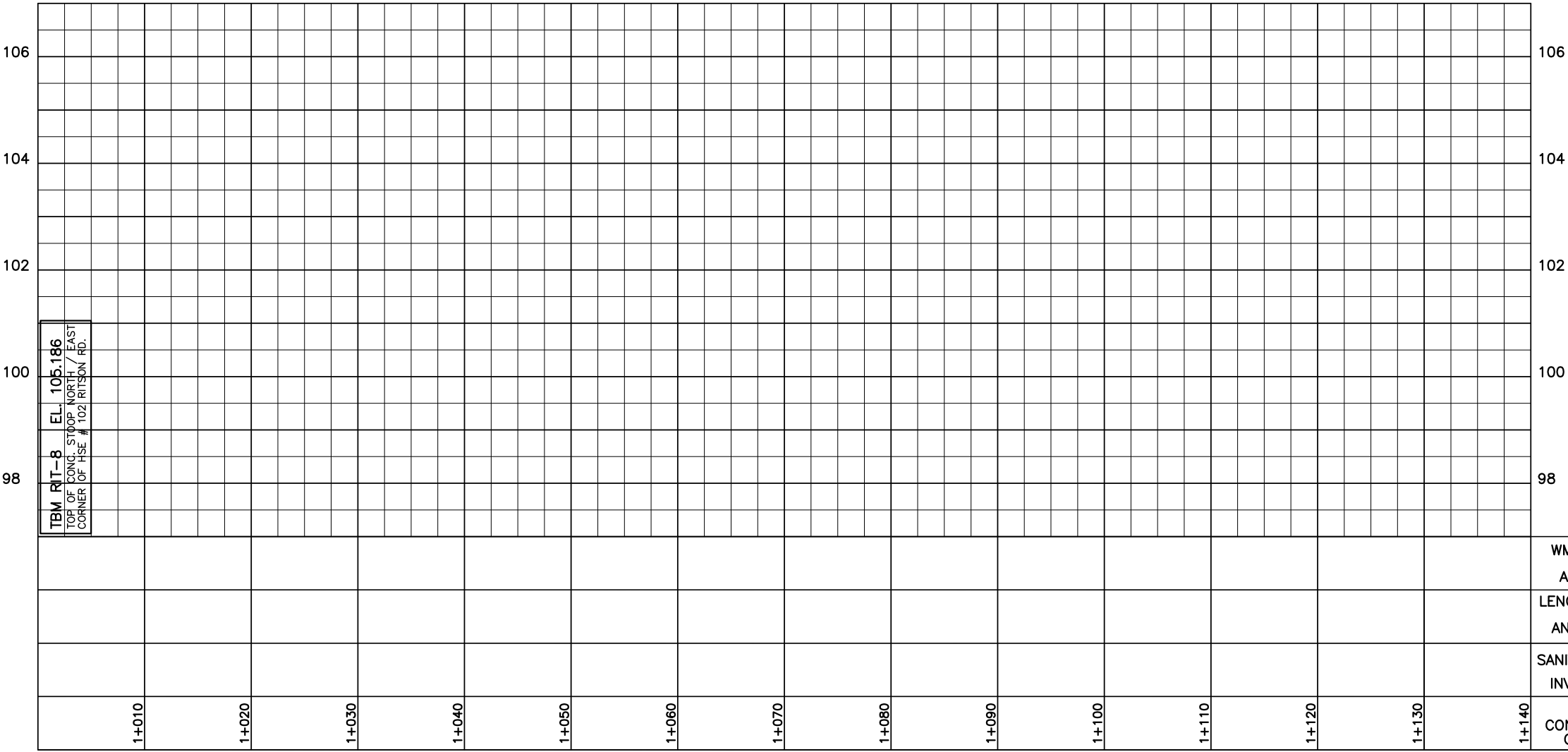
STREET NAME
FROM XX ST. TO XX ST.

CONCESSION	REG. RD. NO.	AREA MUNICIPALITY
—	—	CITY OF XXXX

DRAWING NUMBER	CONTRACT NUMBER	SHEET NUMBER
X-XX-SW-XXX	D20XX-XX	4 OF —

STREET NAME

STREET NAME





PROPOSED WATERMAIN DATA			
MARK	DESCRIPTION	CHAINAGE	TOP OF WATERMAIN ELEVATION
X	XXXX	X+XXX.XX	XXX.XXX

NO.	DATE	NAME	REVISIONS
-----	------	------	-----------

LOCATION APPROVAL			
CITY OF XXXX	2004	01	01
CABLE T.V.	2004	01	01
BELL CANADA	2004	01	01
CONSUMERS GAS	2004	01	01

APPROXIMATE UTILITY LOCATIONS ARE SHOWN PER MARK-UPS RECEIVED FROM THIRD PARTIES ON THE DATES NOTED ABOVE. CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES REQUIRE ADVANCE NOTICE PRIOR TO DIGGING, FOR STAKE OUT. THE REGION ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

SURVEY DATA DATE
2004 01 01

SCALE
HORIZONTAL
5m 0 5m
VERTICAL
1m 0 1m

DRAWN: X. X	DATE: 2004 01
DESIGN: X. X	DATE: 2004 01
CHECKED: X. X	DATE: 2004 01
APPROVED: X. X	DATE: 2004 01



THE REGIONAL MUNICIPALITY
OF DURHAM

WORKS DEPARTMENT

WHITBY

ONTARIO

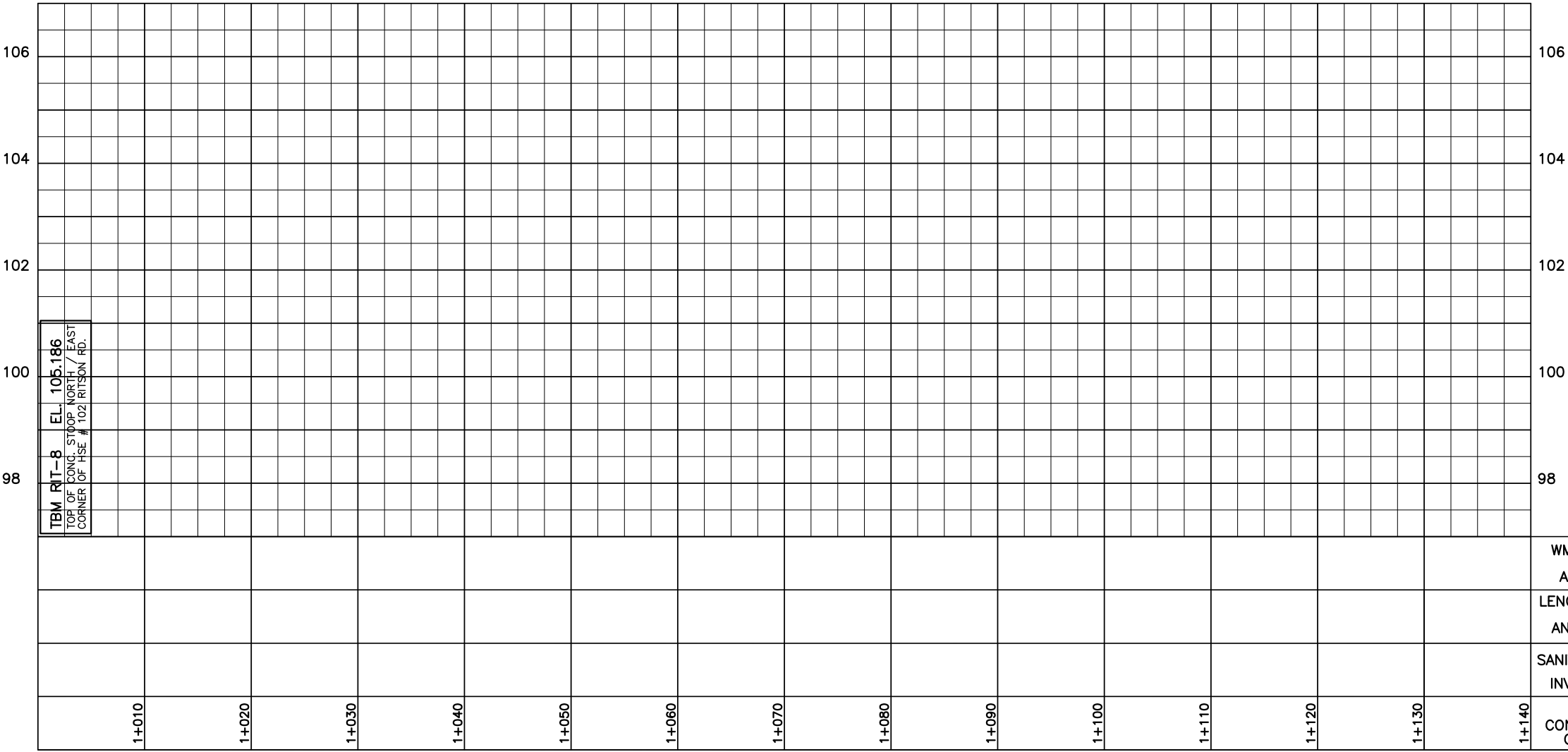
STREET NAME
FROM XX ST. TO XX ST.

CONCESSION	REG. RD. NO.	AREA MUNICIPALITY
—	—	CITY OF XXXX

DRAWING NUMBER	CONTRACT NUMBER	SHEET NUMBER
X-XX-SW-XXX	D20XX-XX	4 OF —

STREET NAME

STREET NAME





CABLE T.V. BELL CANADA ENBRIDGE GAS										20XX XX XX OSHAWA P.U.C.										20XX XX XX																														DRAWN: X. X DESIGN: X. X CHECKED: X. X APPROVED: X. X										DATE: 20XX XX DATE: 20XX XX DATE: 20XX XX DATE: 20XX XX										 THE REGIONAL MUNICIPALITY OF DURHAM WORKS DEPARTMENT WHITBY ONTARIO										CONTRACT NO. D20XX--XX																													
APPROXIMATE UTILITY LOCATIONS ARE SHOWN PER MARK--UPS RECEIVED FROM THIRD PARTIES ON THE DATES NOTED ABOVE. CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES REQUIRE ADVANCE NOTICE PRIOR TO DIGGING, FOR STAKE OUT. THE REGION ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.																																																												AREA MUNICIPALITY CITY OF XXXX										STRUCTURE NAME (SITE ID XXXXX) DRAWING TITLE																														DRAWING NO. --									
NO.										DATE										NAME										REVISIONS										SCALE										SURVEY DATA DATE 20XX XX XX										CONCESSION --										REG. RD. NO. --										SHEET -- OF --																													

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