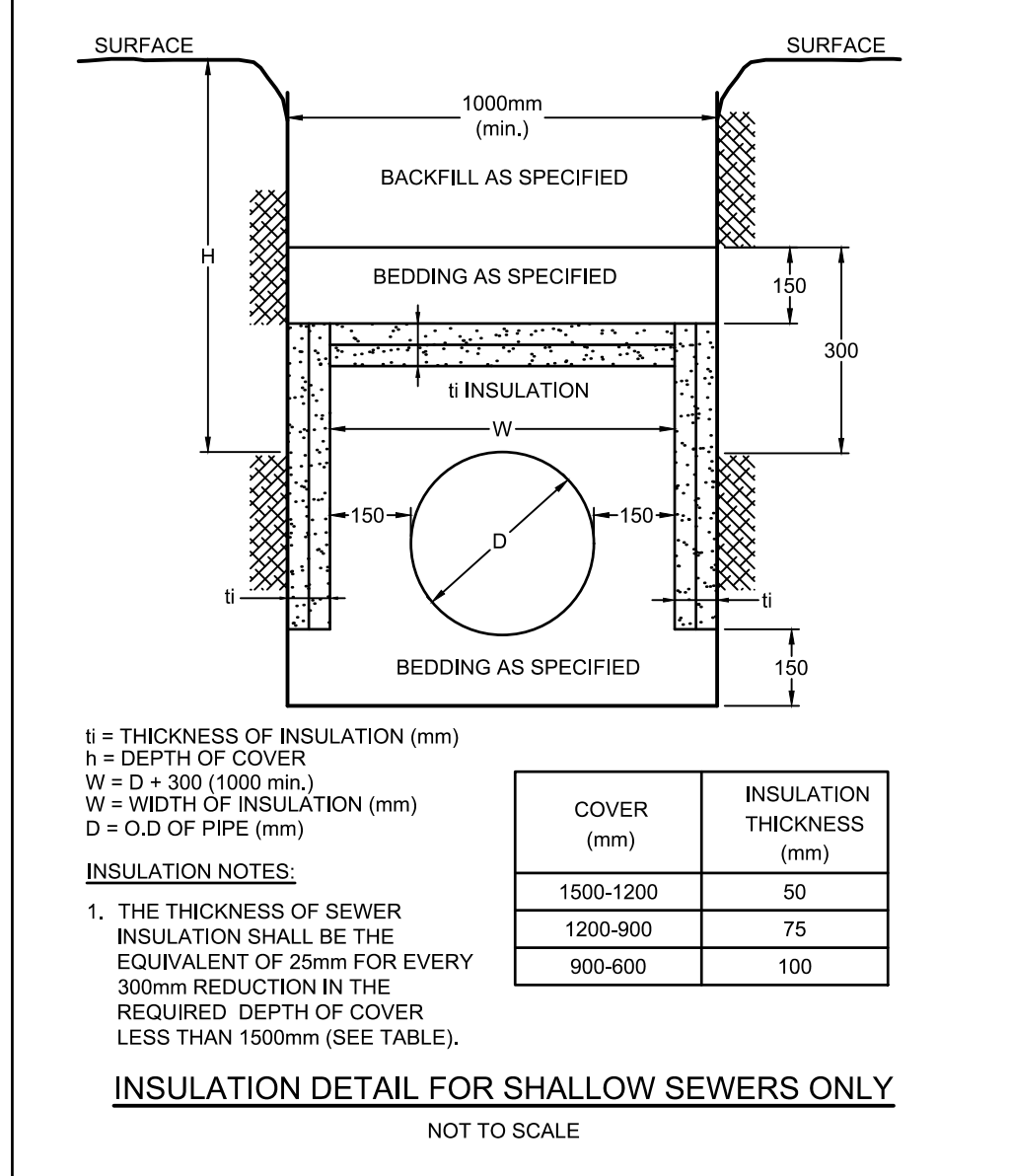
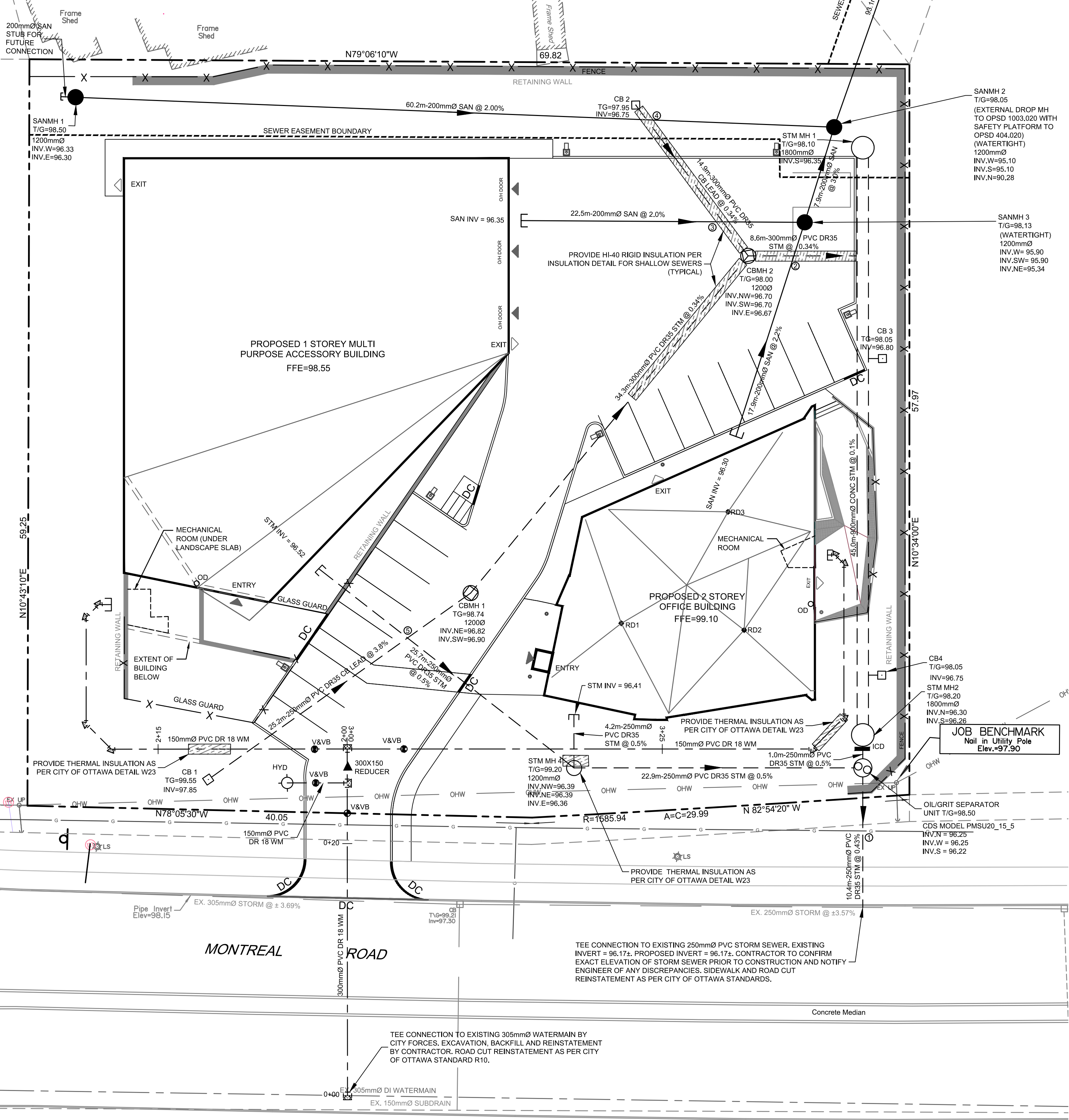


INLET CONTROL DEVICE DATA - STM MH 2					
DESIGN EVENT	CIRCULAR ORIFICE ICD	DIAMETER OF OUTLET PIPE	DESIGN FLOW	DESIGN HEAD	WATER ELEVATION
1.5 YR	83mm PLUG	250mm Ø	17.8 L/s	1.43m	97.65m
1:100 YR	83mm PLUG	250mm Ø	21.0 L/s	2.02m	98.24m

ROOF DRAIN TABLE - AREA R-1 (ROOF DRAINS 1 to 3)					
AREA ID	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5 YR PONDING DEPTH	1:100 YEAR RELEASE RATE
R-1	RD 1 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	10 cm	0.87 L/s
R-1	RD 2 (RD-100-A-ADJ)	1/4 EXPOSED	0.71 L/s	8 cm	0.87 L/s
R-1	RD 3 (RD-100-A-ADJ)	1/4 EXPOSED	0.71 L/s	8 cm	0.87 L/s

* REFER TO THE 'DEVELOPMENT SERVICING AND STORMWATER MANAGEMENT REPORT' (R-2017-179) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.
 **ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDING TO BE WATTS ADJUSTABLE ACCUTROL ROOF DRAINS.



WATERMAIN NOTES:

- SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
THERMAL INSULATION BY OPEN STRUCTURES	W23	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER	W25	CITY OF OTTAWA
WATER SERVICE	PVC DR 18	
- EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
- WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
- PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.
- WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

PROPOSED 300Ø/150Ø WATER SERVICE CONNECTION TABLE

STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
0+00	99.75	97.35*	T.V.S. CONNECTION TO EX. 305mmØ WM
0+15.5	99.56	97.16	CROSS BELOW EX.305Ø STM (±0.53m CLEARANCE)
0+21.5	99.64	97.24	CROSS BELOW EX. GAS
0+22.4	99.75	97.35	50mmØ STANDPOST @ PROPERTY LINE
0+24.8	99.55	97.15	300 X 300 X 300 TEE
0+25.8	99.53	97.13	300 X 150 REDUCER
0+27.5	99.45	97.05	150 X 150 X 150 TEE

PROPOSED 150Ø WATER SERVICE TO STORAGE FACILITY TABLE

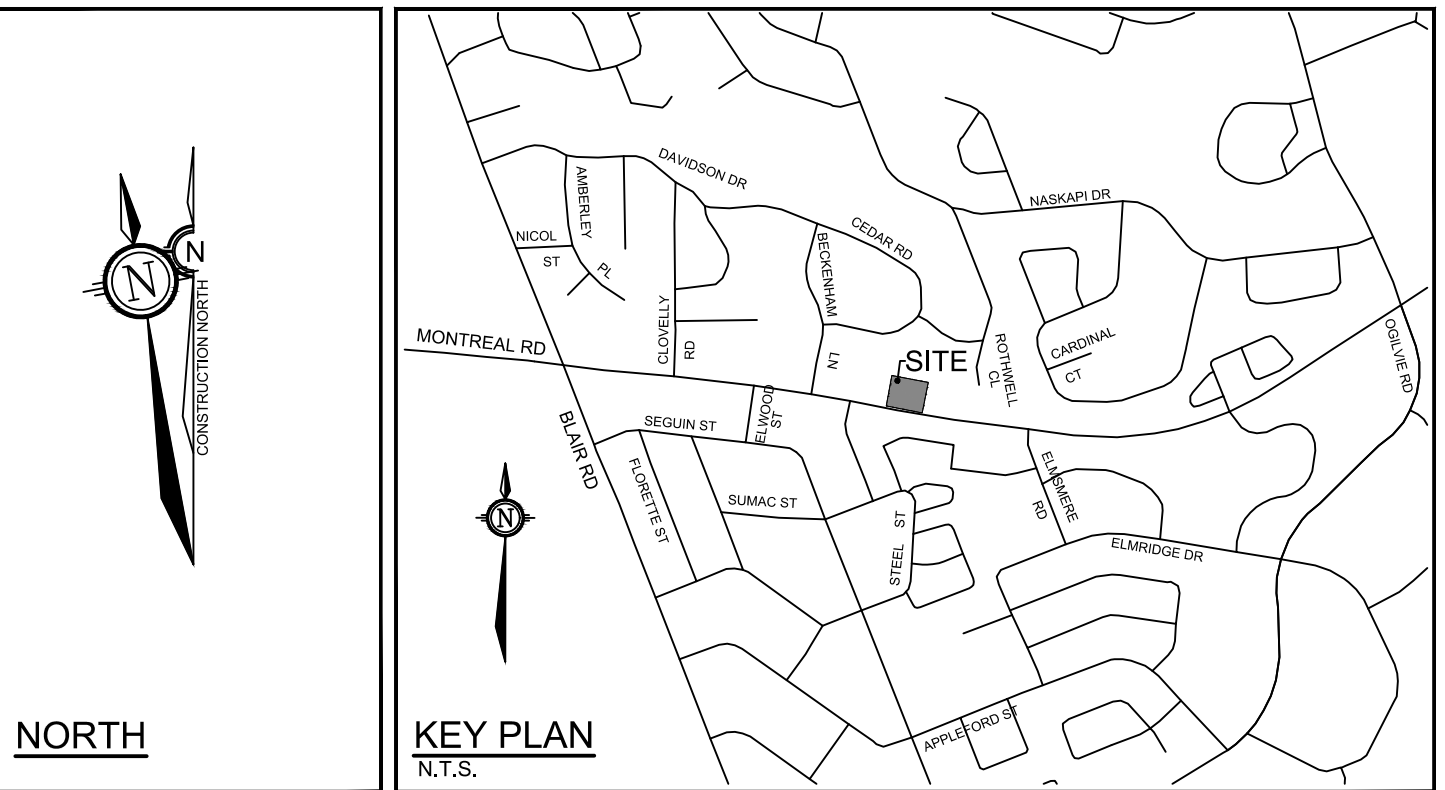
STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
2+02.6	99.58	97.18	150MMØ VALVE AND VALVE BOX
2+07.6	99.65	97.25***	CROSS BELOW 250Ø STM (±0.47m CLEARANCE)
2+18.7	99.70	97.30	45° HORIZONTAL BEND
2+21.5	99.25	96.85	45° HORIZONTAL BEND
2+30.0	99.06	96.66	45° HORIZONTAL BEND
2+31.4	99.08	96.66	45° HORIZONTAL BEND
2+32.4	99.10	96.66	CAP 1.0M FROM BUILDING FACE

PROPOSED 150Ø WATER SERVICE TO OFFICE BUILDING TABLE

STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
3+04.5	99.25	96.85	150MMØ VALVE AND VALVE BOX
3+16.1	98.60	95.87**	CROSS BELOW 250Ø STM (±0.5m CLEARANCE)
3+18.0	98.15	95.75**	CROSS BELOW 250Ø STM (±0.5m CLEARANCE)
3+36.9	98.14	95.74***	45° HORIZONTAL BEND
3+40.4	98.23	95.83***	45° HORIZONTAL BEND
3+52.6	99.08	95.83	45° HORIZONTAL BEND
3+53.6	99.09	95.83	45° HORIZONTAL BEND
3+54.2	99.09	95.83	CAP 1.0M FROM BUILDING FACE

- * 250mmØ CONNECTION TO EXISTING 305mmØ WATERMAIN. EXACT ELEVATION TO BE FIELD DETERMINED.
- ** PROVIDE WATERMAIN CROSSING BELOW BOTH STORM SEWERS AS PER CITY OF OTTAWA DETAIL W25.
- *** PROVIDE THERMAL INSULATION AS PER CITY OF OTTAWA DETAIL W22 AND DETAIL W23 WHERE COVER IS LESS THAN 2.4m AND/OR ADJACENT TO OPEN STRUCTURES.

CRITICAL SEWER PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
①	250mmØ STM OBV=96.45	GAS = APPROX. 1M DEEP	±0.3m
②	200mmØ SAN OBV=96.16	300mmØ STM INV = 96.66	±0.50m
③	200mmØ SAN OBV=96.23	300mmØ STM INV= 96.71	±0.48m
④	200mmØ SAN OBV=95.60	300mmØ STM INV= 96.75	±1.15m
⑤	250mmØ STM OBV=96.73	250mmØ STM INV=97.13	±0.40m



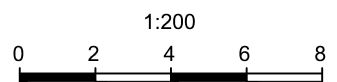
NOTE:
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

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 SIMON FRIGON
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 E-MAIL: storm@redteam.ca

No.	REVISION	DATE	BY
2.	ISSUED FOR SITE PLAN APPLICATION	MAR 9/18	MS
1.	ISSUED FOR COORDINATION	NOV 29/17	LGB

SCALE

1:200



DESIGN

LGB

CHECKED

MS

DRAWN

LGB

CHECKED

MS

APPROVED

MS

FOR REVIEW ONLY



NOVATECH

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LOCATION
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 OTTAWA, ONTARIO

DRAWING NAME

GENERAL PLAN OF SERVICES

PROJECT No.

116151-00

REV

REV # 2

DRAWING No.

116151-GP