GENERAL NOTES:

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION. 4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS
- 5. RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
- 6. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- 7. ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARKS ARE THE FIRE HYDRANT TOP OF SPINDLE FOR THE 3 HYDRANTS AROUND THE CITIGATE DRIVE AND CROSSKEY PLACE ROUNDABOUT (BM NO. 1 ELEV = 99.51, BM NO. 2 ELEV = 99.39, BM NO. 3 ELEV = 98.87). REFER TO ANNIS, O'SULLIVAN, VOLLEBEKK LTD. TOPOGRAPHICAL PLAN OF SURVY OF BLOCK 13, REGISTERED PLAN 4M-1538, CITY OF OTTAWA.
- 8. REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. PG5284-1 (DATED APRIL 28, 2020) PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- 9. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND
- 10. REFER TO THE STORMWATER MANAGEMENT REPORT No. R-2020-044, DATED JUNE 01, 2020 PREPARED BY NOVATECH. 11. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS

SEWER NOTES:

(R10 AND R25).

- 1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 2. SPECIFICATIONS: REFERENCE OPSD ITEM SANITARY/STORM/CATCHBASIN MANHOLE (1200Ø) 701.010 STORM MANHOLE (1500Ø) 701.011 OPSD OPSD STORM MANHOLE (1800Ø) 701.012 OPSD 701 013 STORM MANHOLE (2400Ø) STORM MANHOLE (3000Ø) 701.014 OPSD CATCHBASIN (600x600) 705.010 CATCHBASIN FRAME AND COVER 400.020 CITY OF OTTAWA STORM/SANITARY MH FRAME S25 SANITARY COVER CITY OF OTTAWA STORM COVER (CLOSED S24 1 CITY OF OTTAWA STORM COVER (OPEN) CITY OF OTTAWA SEWER TRENCH S6 &S7 CITY OF OTTAWA PVC DR 35(UNLESS SPECIFIED OTHERWISE) STORM SEWER < 450mm@ STORM SEWER >= 450mmØ CONC 65D (UNLESS SPECIFIED OTHERWISE) SANITARY SEWER PVC DR 35 CITY OF OTTAWA
- 3. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM THE FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
- 4. ALL STORM AND SANITARY LATERALS SHALL BE EQUIPED WITH BACKFLOW PREVENTION DEVICES AS PER THE CITY OF OTTAWA STANDARD DETAILS S14 AND S14,1 OR S14.2.
- 5. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
- 6. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX; POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- 7. ALL STORM MANHOLES MANHOLES WITH PIPE SIZES LESS THAN 900mm ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL STORM MANHOLES WITH PIPE SIZES 900mm AND LARGER ARE TO BE BENCHED.

8. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS 200mm OR GREATER IN DIAMETER PRIOR TO BASE COURSE

- ASPHALT TO ENSURE THAT THEY ARE CLEAN AND OPERATIONAL. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES AND RE CCTV PRIOR TO ACCEPTANCE. OBTAIN APPROVAL FROM THE CITY'S SEWER OPERATIONS. PROVIDE THE CCTV INSPECTION AND REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 9. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL APPLICABLE SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES, ETC.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24, DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- 11. INSULATE ALL STORM SEWERS THAT HAVE LESS THAN 1.5m COVER PER INSULATION DETAIL FOR SHALLOW SEWERS, PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.

WATERMAIN NOTES:

- 1. SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 2. SPECIFICATIONS: WATERMAIN TRENCHING
- THERMAL INSULATION IN SHALLOW TRENCHES W22 THERMAL INSULATION BY OPEN STRUCTURES PVC DR 18
- 3. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS, 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.

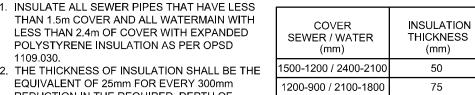
CITY OF OTTAWA

CITY OF OTTAWA

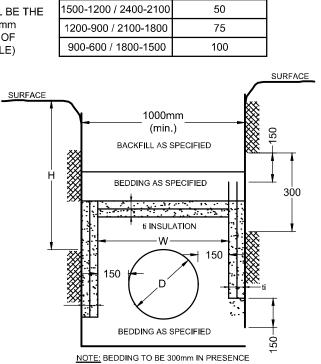
- 4. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
- 5. PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.
- 6. WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.

WATERMAIN NOTES ARE APPLICABLE FOR DOMESTIC SERVICES ONLY. REFER TO NOTES AND SPECIFICATIONS PREPARED BY CIVELEC CONSULTANTS INC. FOR FIRE PROTECTION WATERMAIN REQUIREMENTS.

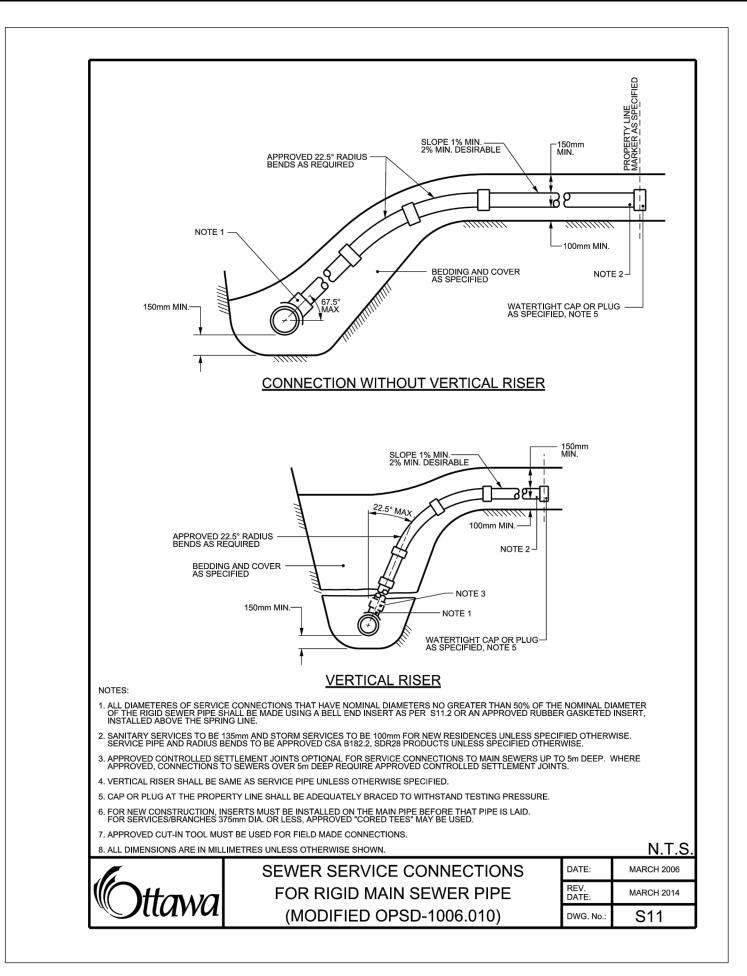
SEWER & WATERMAIN INSULATION NOTES:



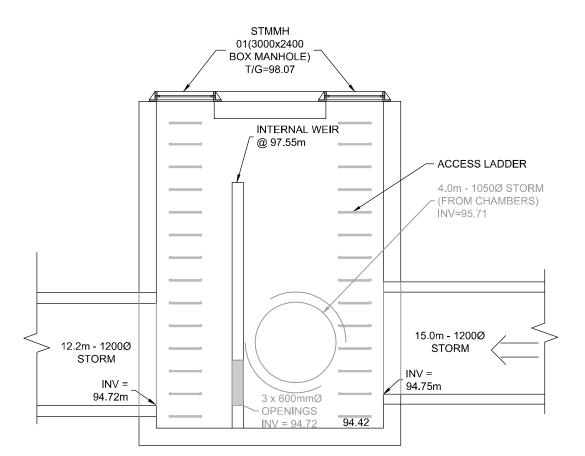
REDUCTION IN THE REQUIRED DEPTH OF COVER WITH 50mm MINIMUM (SEE TABLE) T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm) W = D + 300 (1000 min.)D = O.D OF PIPE (mm)



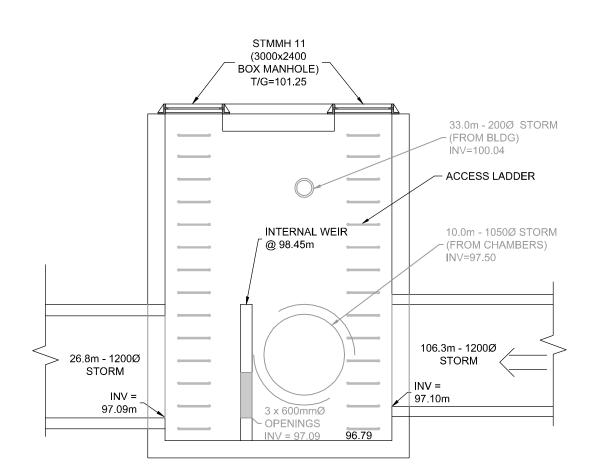
INSULATION DETAIL FOR SHALLOW SEWERS & WATERMAIN



INLET CONTROL DEVICE TABLE:		
LOCATION	ICD SIZE	
MH118	108mm	
MH108	300mm	
MH103	340mm	
MH11*	3 x 600mm; 2.4m weir at 98.45	
MH01*	3 x 600mm; 2.4m weir at 97.55	
* REFER TO DETAILS FOR WEIR SPECIFICATIONS		



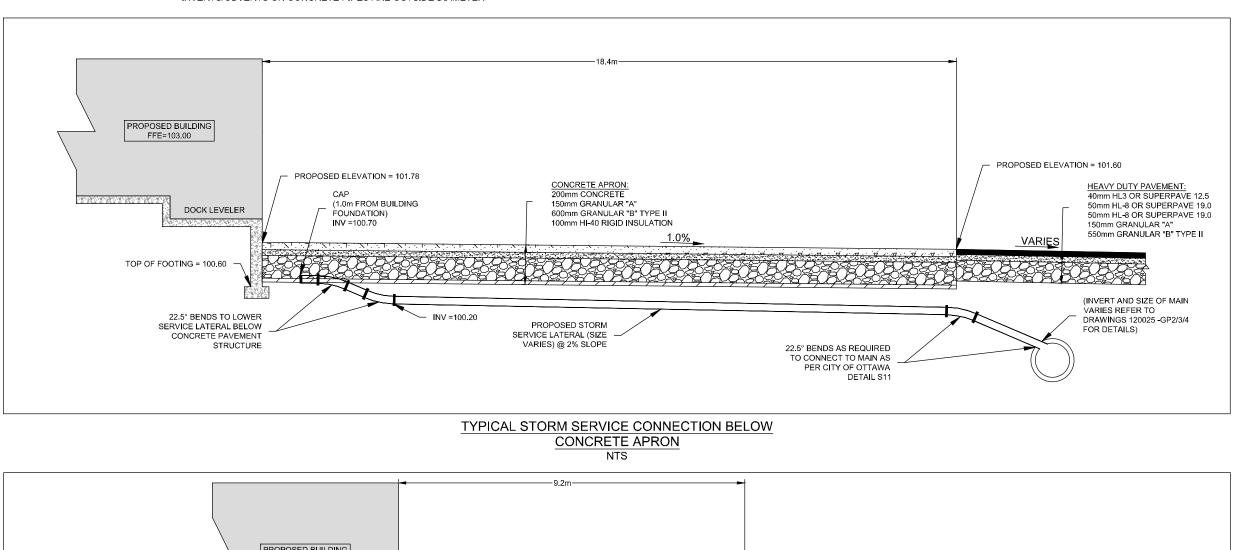
STMMH 01 DETAIL SCALE: N.T.S

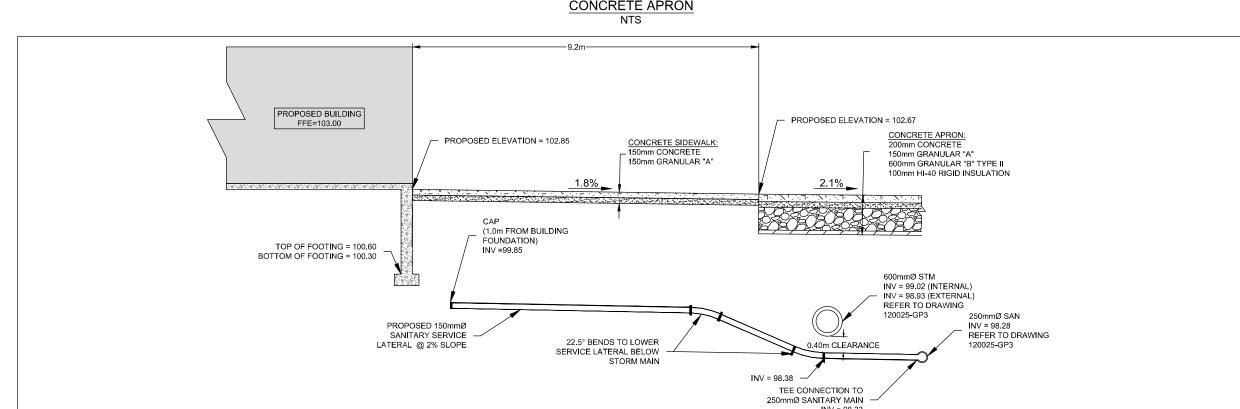


STMMH 11 DETAIL



STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
1+000.0	98.10	95.64	CONNECTION TO EXISTING 250mmØ WM
1+013.7	97.96	95.56	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.83 CLEARANCE)
1+024.9	98.59	96.19	22.5° HORIZONTAL BEND
1+030.9	98.91	96.51	11.25° HORIZONTAL BEND
1+072.3	100.08	97.68	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.86 CLEARANCE)
1+099.0	100.70	98.30	22.5° HORIZONTAL BEND
1+114.4	100.86	98.46	22.5° HORIZONTAL BEND
1+166.6	100.35	97.95	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.86 CLEARANCE)
1+213.4	99.22	96.82	250mmØ VALVE AND VALVE BOX
1+219.4	99.24	96.84	CAP
PROPOS	SED WATE	RMAIN (250	mmØ DOMESTIC SERVICE) TABLE
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
3+000.0	98.67	95.70	CONNECTION TO EXISTING
3+000.5	98.86	95.75	45.0° HORIZONTAL BEND
3+003.0	99.05	95.75	250mm x 250mm x 250mm TEE
3+005.5	99.23	95.75	45.0° HORIZONTAL BEND
3+006.8	98.70	95.67	CONNECTION TO EXISTING
4+000.0	99.05	95.75	250mm x 250mm x 250mm TEE
4+006.4	100.22	95.80	1500mm x 1800mm WATER METRE CHAMBER
4+028.3	100.62	98.25	CROSS ABOVE 600mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.50 CLEARANCE)
4+105.6	101.79	99.39	CROSS ABOVE 250mmØ SAN AS PER CITY OF OTTAWA STANDARD W25.2 (±1.31 CLEARANCE
4+108.1	101.84	99.44	CROSS ABOVE 1200mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±1.45 CLEARANCE
4+110.7	101.89	99.49	22.5° HORIZONTAL BEND
4+119.9	102.14	99.74	250mm x 250mm x 25mm x TEE
4+132.9	101.06	98.66	250mm x 250mm x 100mm x TEE
4+133.3	101.06	98.66	CROSS BELOW 200mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.69 CLEARANCE)
4+135.4	101.08	99.68	250mmØ VALVE AND VALVE BOX
4+141.2	101.16	99.58	CROSS ABOVE 1050mmØ STM AS PER CITY OF OTTAWA STANDARD W25.2 (±0.50 CLEARANCE
4+142.9	101.18	98.78	22.5° HORIZONTAL BEND
4+179.7	101.43	98.98	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
4+212.8	101.42	98.98	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
4+242.4	101.43	98.98	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
4+271.2	101.42	98.98	CROSS BELOW 375mmØ STM AS PER CITY OF OTTAWA STANDARD W25 (±0.50 CLEARANCE)
4+283.8	101.49	99.09	45.0° HORIZONTAL BEND
4+285.9	101.54	99.14	250mmØ (F.P) WM CROSSING (±0.50 CLEARANCE
4+288.0	101.55	99.15	45.0° HORIZONTAL BEND
4+289.5	101.57	99.65	CROSS ABOVE 1200mmØ STM AS PER CITY OF
4+317.5	102.43	100.03	OTTAWA STANDARD W25.2 (±0.50 CLEARANCE HYDRANT CONNECTION
4+319.4	102.47	100.07	HYDRANT CONNECTION
T'010.T			





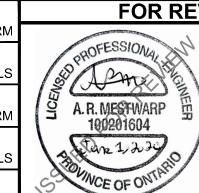
SANITARY SERVICE CONNECTION DETAIL

NOT FOR
CONSTRUCTION

				SCALE	DESIGN
					MJH/ARM
					CHECKED
5	REVISED PER CITY COMMENTS	JUNE 1/2020	MJH	AS SHOWN	JLS
4	ISSUED FOR INTERNAL REVIEW	MAY 19/2020	MJH		DRAWN
3	ISSUED FOR FOUNDATION PERMIT	MAY 5/2020	MJH		MJH/ARM CHECKED
2	ISSUED FOR DESIGN REVIEW	APR 20/2020	МЈН		JLS
1	APPLICATION FOR SITE PLAN APPROVAL	APR 6/2020	MJH		APPROVED

REVISION

DATE BY





	NO	∕ ∧T∃CH
		ners & Landscape Architec
	· ·) Michael Cowpland Driv tario, Canada K2M 1P6
'	Telephone	(613) 254-964
	Facsimile	(613) 254-586
	Website	www.novatech-eng.co

LOCATION PROJECT PYTHON 222 CITIGATE DRIVE, CITY OF OTTAWA

> DRAWING NAME NOTES AND DETAILS

PROPOSED WATERMAIN (250mmØ FIRE PROTECTION) TABLE

COMMENTS

250mm x 250mm x 250mm TEE

250mm VALVE AND VALVE BOX

250mm x 250mm x 250mm TEE

45° HORIZONTAL BEND CROSS BELOW 100mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

CROSS BELOW 1200mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.58 CLEARANCE)

45° HORIZONTAL BEND

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (+0.55 CLEARANCE)

ROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.58 CLEARANCE)

HYDRANT CONNECTION

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.58 CLEARANCE)

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.59 CLEARANCE)

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.58 CLEARANCE)

45° HORIZONTAL BEND

CROSS BELOW 1200mmØ STM AS PER CITY OF

OTTAWA STANDARD W25. (±0.50 CLEARANCE)

45° HORIZONTAL BEND

250mm x 250mm x 200mm TEE

250mm VALVE AND VALVE BOX

250mm x 250mm x 200mm TEE

45° HORIZONTAL BEND

CROSS BELOW 1200mmØ STM AS PER CITY OF

OTTAWA STANDARD W25. (±0.50 CLEARANCE)

45° HORIZONTAL BEND

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.57 CLEARANCE)

45° HORIZONTAL BEND

CROSS BELOW 1200mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (+0.50 CLEARANCE)

CROSS BELOW 250mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

CROSS ABOVE 25mmØ (DS) WATERMAIN

(±0.50m CLEARANCE)

45° HORIZONTAL BEND

HYDRANT CONNECTION

CROSS BELOW 300mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

CROSS BELOW 250mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.61 CLEARANCE)

CROSS BELOW 250mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.51 CLEARANCE)

CROSS BELOW 250mmØ STM AS PER CITY OF

HYDRANT CONNECTION

CROSS BELOW 250mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

45° HORIZONTAL BEND

CROSS ABOVE 825mmØ STM AS PER CITY OF

OTTAWA STANDARD W25.2 (±0.66 CLEARANCE)

OTTAWA STANDARD W25 (±0.57 CLEARANCE)

CROSS BELOW 200mmØ STM AS PER CITY OF

45° HORIZONTAL BEND

250mm x 250mm x 200mm TEE

250mm VALVE AND VALVE BOX

250mm x 250mm x 200mm TEE

CROSS BELOW 150mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

OTTAWA STANDARD W25.2 (±1.08 CLEARANCE)

45° HORIZONTAL BEND

CROSS ABOVE 250mmØ SAN AS PER CITY OF

OTTAWA STANDARD W25.2 (±0.50 CLEARANCE)

CROSS ABOVE 825mmØ STM AS PER CITY OF

OTTAWA STANDARD W25.2 (±0.85 CLEARANCE)

45° HORIZONTAL BEND

HYDRANT CONNECTION

HYDRANT CONNECTION

45° HORIZONTAL BEND

45° HORIZONTAL BEND

250mm x 250mm x 200mm TEE

250mm VALVE AND VALVE BOX

250mm x 250mm x 200mm TEE

HYDRANT CONNECTION

45° HORIZONTAL BEND

CROSS ABOVE 250mmØ SAN AS PER CITY OF

OTTAWA STANDARD W25 2 (+1 80 CLEARANCE) CROSS ABOVE 600mmØ STM AS PER CITY OF

OTTAWA STANDARD W25.2 (±1.84 CLEARANCE)

CROSS ABOVE 1200mmØ STM AS PER CITY OF

45° HORIZONTAL BEND

OTTAWA STANDARD W25.2 (±1.40 CLEARANCE)

CROSS BELOW 100mmØ (DS) WATERMAIN

(±0.50m CLEARANCE)

CROSS BELOW 200mmØ STM AS PER CITY O

OTTAWA STANDARD W25 (±0.57 CLEARANCE)

CROSS ABOVE1050mmØ STM AS PER CITY OF

TTAWA STANDARD W25.2 (±0.30 CLEARANCE)

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE

HYDRANT CONNECTION

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

ROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE) CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (+0.50 CLEARANCE)

CROSS BELOW 250mmØ (DS) WATERMAIN

CROSS BELOW 375mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.50 CLEARANCE)

CROSS ABOVE 1200mmØ STM AS PER CITY OF

OTTAWA STANDARD W25.2(±0.50 CLEARANCE)

45° HORIZONTAL BEND

45° HORIZONTAL BEND

ROSS ABOVE 825mmØ STM AS PER CITY OF

OTTAWA STANDARD W25 (±0.52 CLEARANCE)

OTTAWA STANDARD W25 (±0.52 CLEARANCE) CROSS BELOW 250mmØ STM AS PER CITY OF

SURFACE

101.98

101.96

101.89

101.83

101.82

101.55

101.43

101.43

101.40

101.47

101.40

101.41

101.41

101.51

101.63

101.63

101.78

101.63

101.63

101.59

101.57

101.42

101.81

101.83

101.81

101.85

101.82

102.14

102.16

102.33

102.52

102.48

102.42

102.56

102.41

102.38

102.43

102.73

102.74

102.73

102.72

102.70

102.69

102.31

102.24

102.07

101.80

102.50

102.24

102.62

102.62

102.62

102.62

102.27

102.03

102.39

102.37

102.40

102.60

101.46

101.16

101.20

101.47

101.46

101.55

101.46

101.46

101.54

101.50

101.46

101.56

102.00

101.70

102.50

| ELEVATION | ELEVATION

99.58

99.56

97.23

99.00

99.00

97.86

99.23

99.23

97.93

99.17

99.02

99.41

99.45

99.42

99.62

100.12

100.08

100.02

99.99

100.03

100.34

100.33

99.93

100.10

100.02

99.30

100.10

100.22

100.22

100.22

100.22

99.87

99.63

99.97

100.00

100.00

98.96

98.96

98.39

99.71

99.60

STATION

5+010.7

5+011.5

5+012.3

5+014.4

5+015.1

5+022.6

5+026.8

5+027.2

5+066.7

5+098.1

5+106.9

5+147.1

5+187.4

5+223.4

5+227.6

5+235.7

5+237.7

5+240.3

5+242.6

5+244.7

5+252.8

5+257.1

5+275.7

5+311 1

5+315.3

5+328.9

5+346.3

5+356.7

5+372.6

5+377.9

5+388.3

5+419.6

5+440.3

5+462.3

5+469.5

5+483.01

5+494.6

5+498.9

5+508.9

5+511.5

5+512.4

5+513.9

5+515.3

5+520.5

5+542.0

5+547.3

5+553.5

5+558.7

5+580.9

5+587.2

5+703.4

5+803.6

5+814.9

5+816.9

5+818.5

5+845.3

5+885.3

5+906.3

5+909.8

5+921.1

5+925.3

5+931.9

5+933.8

5+941.1

5+979.5

6+012.6

6+028.2

6+042.2

6+071.0

6+085.1

6+101.3

6+103.8

6+108.1

6+129.6

120025 GENERAL PLAN OF SERVICES REV #5 120025-NDGP

PLAN # 18129

BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

WATERMAINS, SEWERS AND OTHER

THE POSITION OF ALL POLE LINES, CONDUITS.

UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON

THE CONTRACT DRAWINGS. AND WHERE SHOWN.

UTILITIES AND STRUCTURES IS NOT GUARANTEED.

THE ACCURACY OF THE POSITION OF SUCH