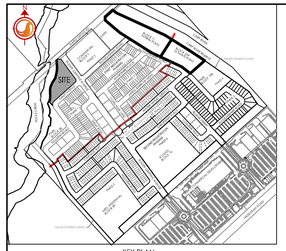

160401608 - Kanata West Block 29

ICD Table

Last updated on 2021-03-19 from PCSWMM model and drawings updated that same date

Area ID	CB Name	Diameter (mm)	Invert (m)	2-Year Head (m)	2-Year Flow	100-Year Head (m)	100-Year Flow (L/s)
L103A	L103A-1	83	96.40	1.22	14.9	1.67	17.5
L103A	L103A-2	**CB L103A-1 and L103A-2 to be interconnected w single ICD at L103A-1*					
L104A	L104A-1	83	96.44	1.36	15.7	1.60	17.1
L104A	L104A-2	83	96.44	1.36	15.7	1.60	17.1
L106A	L106A-1	152	96.54	1.12	47.0	1.54	55.7

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR TOP	WTR BTM	NOTES
1	94.98 (94.88)	95.66 (95.76)	93.98	94.18	96.46	96.26	DEFLECT WATER OVER STORM (AS PER W25.2)
2	94.99 (94.89)	95.67 (95.77)	94.07	94.27			
3	95.27	95.65	94.23	94.43	96.35	96.15	DEFLECT WATER OVER STORM (AS PER W25.2)
4	95.29	95.67	94.31	94.51			

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS

200mm Ø WATERMAIN A

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	98.10	95.70	CONNECTION TO EX. 300mmØ WATERMAIN
0+004.0	98.15	95.75	45° VERTICAL BEND
0+004.7	98.13	96.41	45° VERTICAL BEND
0+005.3	98.11	96.41	45° VERTICAL BEND
0+006.0	98.09	95.69	45° VERTICAL BEND
0+012.0	98.02	95.62	200mmØ VALVE AND BOX
0+020	98.05	95.65	TOP OF WATERMAIN
0+025.1	98.04	95.64	11.25° HORIZONTAL BEND
0+033.6	97.96	95.56	200mmØ VALVE AND BOX
0+036.1	97.99	95.59	200mmØ x 200mmØ TEE
0+040	98.03	95.63	TOP OF WATERMAIN
0+060	97.88	95.48	TOP OF WATERMAIN
0+081.5	98.24	95.84	22.5° HORIZONTAL BEND
0+093.8	97.80	95.40	200mmØ x 38mmØ REDUCER

200mm Ø WATERMAIN B

STATION	FINISHED GRADE	TOP OF W/M	ITEM
0+000	97.99	95.59	200mmØ x 200mmØ TEE
0+003.6	98.05	95.65	45° VERTICAL BEND
0+004.3	98.02	96.30	45° VERTICAL BEND
0+004.9	98.00	96.30	45° VERTICAL BEND
0+005.7	97.98	95.58	45° VERTICAL BEND
0+006.7	98.17	95.77	200mmØ VALVE AND BOX
0+010.4	98.17	95.77	150mmØ FIRE HYDRANT TEE
0+020	98.12	95.72	TOP OF WATERMAIN
0+040	98.16	95.76	TOP OF WATERMAIN
0+060	98.28	95.88	TOP OF WATERMAIN
0+070.8	98.40	96.00	200mmØ x 38mmØ REDUCER

MAPLE GROVE ROAD

ROAD ALLOWANCE BETWEEN THE

EX. SAN STUB INV=88.40

H.B.C.G.St.

SAN 5 (1200Ø) T/G=97.67 S INV=94.62

SAN 4 (1200Ø) T/G=98.24 SE INV=94.47 N INV=94.50

STM 104 (1200Ø) T/G=98.17 SE INV=95.56

17.6m-200mmØ @ 4.8% SAN

49.3m - 450mmØ CONC. SAN TRUNK @ 1.00%

58.31m

PRV T/WM=95.99 T/P SAN=96.06

BLOCK - 4 12 - UNITS FF=99.82 TF=98.62 BFE=96.77 USF=96.47 MUSF=96.17 DOWNSPOUTS TO DISCHARGE TOWARDS THE PARKING LOT

T/P STM=96.06 T/WM=95.99 T/P SAN=96.06

EX. SAN T/G=97.45 NW INV=88.89 SE INV=90.78

EX. STM T/G=97.71 SE INV=95.32

1.2m-200mmØ CB LEAD @ 1.00%

CB 104A-1 T/G=97.82 NE INV=96.44

4.8m-200mmØ CB LEAD @ 1.00%

CB 104A-2 T/G=97.82 SW INV=96.44

38.7m-300mmØ STM @ 0.50%

43.0m-200mmØ SAN @ 0.50%

200mm WATERMAIN

SWLK

ACCESSORY BLDG FF=98.29 T/P SAN=95.70 TF=98.44 USF=96.74

MAIL BOX

1.5m ASPH SWLK

M-PLAN BLOCK 30 WALKWAY

MEDIUM DENSITY RESIDENTIAL M-PLAN BLOCK 29

3.0m PATHWAY WITH 1.0m BUFFER

STM 103 (1200Ø) T/G=98.10 SE INV=95.29 NW INV=95.37 SW INV=95.37

CB 106A-1 T/G=97.92 SE INV=96.54

3.6m-200mmØ CB LEAD @ 1.00%

SAN 3 (1200Ø) T/G=98.10 SE INV=94.25 NW INV=94.26 SW INV=94.31

STM 106 (1200Ø) T/G=98.19 NE INV=95.62

50.1m-300mmØ STM @ 0.51%

70.2m-200mmØ SAN @ 0.50%

200mm WATERMAIN B

FH FLANGE ELEV=98.34

13.9m-200mmØ SAN @ 0.50%

6.0m-200mmØ CB LEAD @ 1.00%

CB 103A-2 T/G=97.90 SW INV=96.50

13.9m-375mmØ STM @ 0.50%

CB 103A-1 T/G=97.90 NE INV=96.40 NE INV=96.46

1.1m-200mmØ CB LEAD @ 1.00%

STM 102 (1200Ø) T/G=98.01 SE INV=95.20 NW INV=95.22

SAN 2 (1200Ø) T/G=98.08 SE INV=94.17 NW INV=94.18

BLOCK - 3 12 - UNITS FF=99.75 TF=98.60 BFE=96.75 MUSF=96.13 DOWNSPOUTS TO DISCHARGE TOWARDS THE PARKING LOT

EX. 1.0m x 6.0m BELL EASEMENT

EX. 1.5m x 3.0m ROGERS EASEMENT

GLB

CSP

T/P STM=96.14 T/WM=95.97 T/P SAN=96.14

BLOCK - 1 12 - UNITS FF=100.24 TF=98.89 BFE=97.04 USF=96.48 MUSF=96.30 DOWNSPOUTS TO DISCHARGE TOWARDS THE PARKING LOT

BLOCK - 2 12 - UNITS FF=99.96 TF=98.61 BFE=96.76 USF=96.20 MUSF=96.14 DOWNSPOUTS TO DISCHARGE TOWARDS THE PARKING LOT

1.5m ASPH SWLK

31.72m

CONNECT EX. STM TO NEW MH

STM 101 (1200Ø) T/G=98.17 NE INV=94.99 SW INV=94.99 NW INV=95.10

21.2m-375mmØ STM @ 0.50%

22.5m-200mmØ SAN @ 0.50%

200mm WATERMAIN

EX. CAPPED ROGERS DUCTS

EX. STM T/G=97.83 NW INV=95.19 SE INV=94.38 SW INV=94.89 NE INV=94.00

EX. 71.0m - 375mmØ PVC SAN TRUNK @ 0.14%

EX. 300mmØ WATERMAIN

ROGER GRIFFITHS AVENUE

OHW

EX. 54.0m - 375mmØ PVC STM @ 0.25%

EX. STM T/G=98.58 S INV=95.95 NE INV=95.87

EX. SAN T/G=98.63 NE INV=95.39 S INV=95.42

EX. 71.4m - 600mmØ CONC. STM @ 0.40%

EX. 71.2m - 200mmØ PVC SAN @ 0.50%

EX. 300mmØ WATERMAIN

MAIZE STREET

EX. 51.3m - 675mmØ CONC. STM @ 0.25%

EX. 51.6m - 200mmØ PVC SAN @ 0.50%

EX. STM T/G=98.19 NE INV=95.01 SW INV=95.59

EX. SAN T/G=98.19 NE INV=94.04 SW INV=95.03

SAN 1 (1200Ø) T/G=98.21 NE INV=94.00 SW INV=94.00 NW INV=94.06

CONNECT EX. SAN TO NEW MH

ROAD CUT AS PER CITY OF OTTAWA STANDARD DETAIL R10 (IF REQUIRED BASED ON SUBDIVISION CONSTRUCTION TIMING)

TVS CONNECTION TO EXISTING 300mmØ WATERMAIN. CONNECTION BY CITY FORCES, EXCAVATION, BACKFILL, AND REINSTATEMENT BY CONTRACTOR. CONNECTION TOP OF MAIN=±95.70

EX. HYDRO SERVICE MANUHOLE

EX. SAN T/G=97.89 NW INV=90.87 SW INV=93.78 SE INV=90.88 NE INV=92.07 NE INV=94.15

EXISTING SERVICING AND GRADING DETAILS SHOWN AS PER KANATA WEST 1st REGISTRATION DRAWINGS PROJECT 160401393 PREPARED BY STANTEC CONSULTING DATED OCTOBER 5, 2020. TO BE CONFIRMED PRIOR TO CONSTRUCTION.

MVCA TOP OF BANK

BANK FULL / HIGH WATER MARK

TOPOGRAPHICAL SURVEY WATER'S EDGE

MVCA WATER'S EDGE

Top of Bank

REFER TO GEOTECHNICAL REPORT PG5398-1 DATED JULY 14, 2020 PREPARED BY PATERSON GROUP FOR POOLE CREEK SLOPE STABILITY ASSESSMENT.

SAN 6 (1200Ø) T/G=97.65 NE INV=94.66

M-PLAN BLOCK 31 OPEN SPACE

5m TOE EROSION ALLOWANCE

GEOTECHNICAL LIMIT OF HAZARD LANDS

3m EROSION ACCESS ALLOWANCE

MVCA TOP OF VALLEY

TOPO SURVEY TOP OF VALLEY (APRIL 28, 2014)

MVCA FLOODPLAIN

MVCA MEANDER BELT

Legend

- PROPOSED WATERMAIN
- PROPOSED VALVE AND VALVE BOX
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN
- PROPOSED SUBDRAIN CATCHBASIN
- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN
- CIRCULAR ORIFICE (SEE DWG SD-1)
- INTERCONNECTED CATCHBASIN
- PROPOSED DEPRESSED CURB LOCATIONS
- PROPOSED MOUNTABLE/BARRIER CURB LOCATION (BARRIER / MOUNTABLE)
- EXISTING EASEMENT
- EXISTING 4-PARTY UTILITY TRENCH (H.B.C.G.St.)
- EXISTING CONCRETE ENCASED DUCT BANK
- EXISTING HYDRO TRANSFORMER
- EXISTING ROGERS VAULT/PEDESTAL
- EXISTING BELL PEDESTAL (B)
- EXISTING CSP
- EXISTING GLB
- EXISTING COMMUNITY MAIL BOX LOCATION (CMB)
- EXISTING STREET LIGHT
- THERMAL INSULATION AS PER W22
- CLAY SEAL LOCATION AS PER S8 REFER TO GEOTECHNICAL REPORT FOR DETAILS
- PRV — UNIT TO BE EQUIPPED WITH PRESSURE REDUCING VALVE
- PROPOSED RETAINING WALL

BUILDING SERVICES

0.50m BEHIND BACK OF CURB/SIDEWALK AS SHOWN ON PLAN

- 200mmØ STORM SERVICE PVC SDR 28 @ 1% MIN
- 150mmØ SANITARY SEWER PVC SDR 28 @ 1% MIN
- 38mmØ PEX WATER SERVICE C/W CURB STOP AND SERVICE POST UNLESS OTHERWISE SHOWN

NOTES:

1. PROPOSED UNITS TO BE EQUIPPED WITH PRESSURE REDUCING VALVES (PRV'S) AS PER THE ONTARIO BUILDING CODE.

Stantec

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LICENSED PROFESSIONAL ENGINEER A.M. PAREZ FERNANDEZ 100105130 2021-03-25 PROVINCE OF ONTARIO

Client/Project

RICHCRAFT GROUP OF COMPANIES

KANATA WEST BLOCK 29

OTTAWA, ON

Title

SITE SERVICING PLAN

Project No.	Scale	Sheet	Revision
160401608	1:250 (0, 2.5, 7.5, 12.5m)	2 of 6	1
Drawing No.			
SSP-1			

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