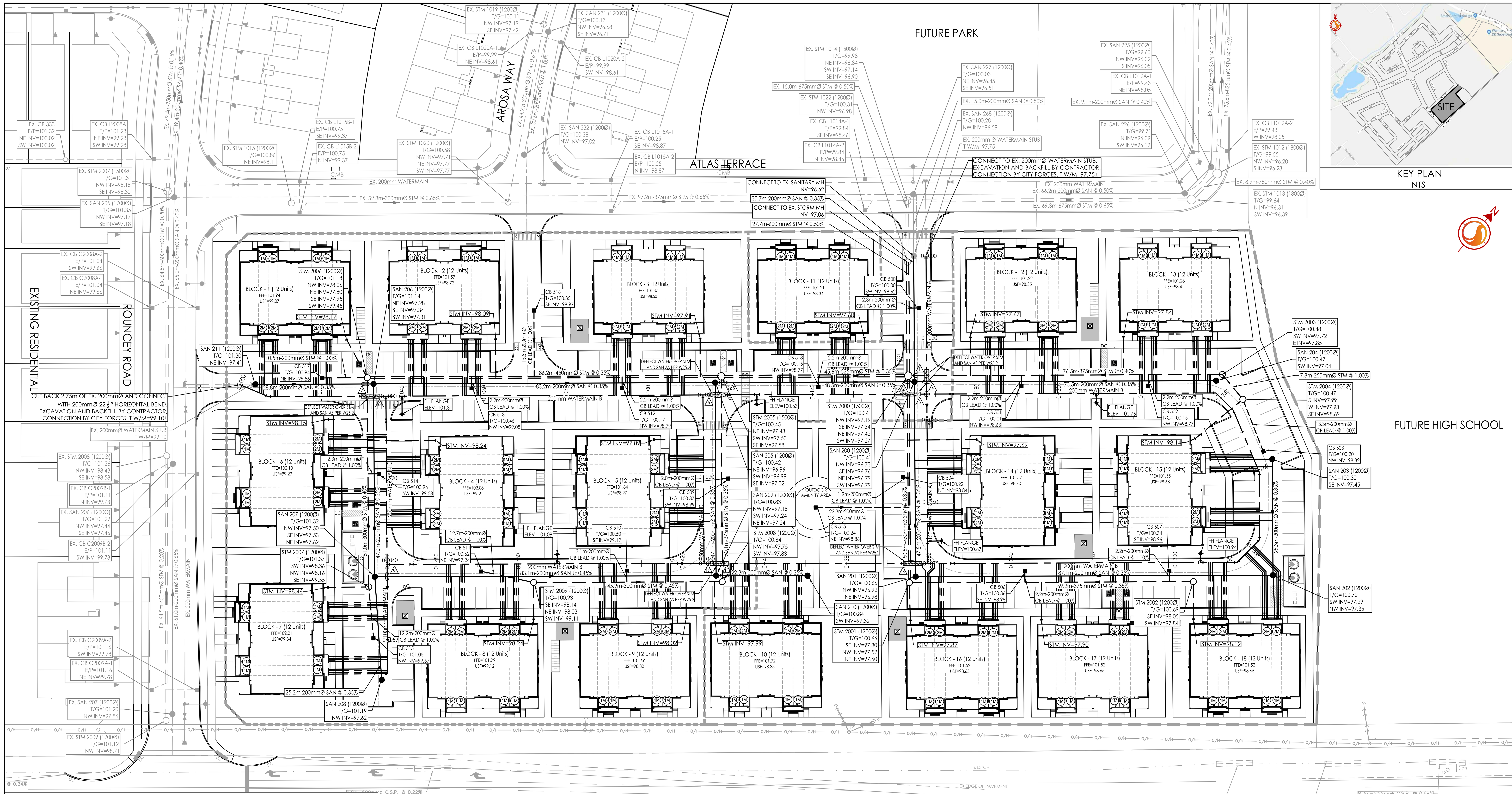


## 200mmØ / 150mmØ WATERMAIN A

| STATION | FINISHED GRADE | TOP OF W/M | ITEM |
|---|---|---|---|
| 0+000 | 100.16 | 97.75± | CONNECT TO EX. 200mmØ WATERMAIN STUB |
| 0+020 | 100.28 | 97.880 | TOP OF PIPE |
| 0+033.7 | 100.43 | 98.030 | 200mmØ X200mmØ CROSS |
| 0+036.7 | 100.47 | 98.070 | 200mmØ X 150mmØ REDUCER |
| 0+039.7 | 100.52 | 90.780 | 150mmØ VALVE AND VALVE BOX |
| 0+060 | 100.43 | 90.780 | TOP OF PIPE |
| 0+069.5 | 100.61 | 90.780 | FIRE HYDRANT LEAD |
| 0+075 | 100.64 | 98.240 | 200mmØ X 150mmØ TEE |

## 200mmØ WATERMAIN B

| STATION | FINISHED GRADE | TOP OF W/M | ITEM |
|---|---|---|---|
| 0+000 | 101.27 | 99.10± | CONNECT TO EX. 200mmØ WATERMAIN WITH 22½° HORIZONTAL BEND |
| 0+007.5 | 101.29 | 98.890 | 22½° HORIZONTAL BEND |
| 0+020 | 101.19 | 98.790 | TOP OF PIPE |
| 0+030.1 | 101.19 | 98.790 | 200mmØ VALVE AND VALVE BOX |
| 0+036.1 | 101.07 | 98.670 | 200mmØ X 200mmØ TEE |
| 0+040 | 100.99 | 98.590 | FIRE HYDRANT LEAD |
| 0+060 | 100.59 | 98.190 | TOP OF PIPE |
| 0+080 | 100.67 | 98.270 | TOP OF PIPE |
| 0+100 | 100.46 | 98.060 | TOP OF PIPE |
| 0+113.3 | 100.49 | 98.090 | 200mmØ X 150mmØ TEE |
| 0+119.3 | 100.45 | 98.050 | 200mmØ VALVE AND VALVE BOX |
| 0+126.5 | 100.38 | 97.980 | FIRE HYDRANT LEAD |
| 0+140 | 100.21 | 97.810 | TOP OF PIPE |
| 0+161.9 | 100.45 | 98.050 | 200mmØ VALVE AND VALVE BOX |
| 0+167.9 | 100.43 | 98.030 | 200mmØ X 200mmØ CROSS |
| 0+173.9 | 100.39 | 97.990 | 200mmØ VALVE AND VALVE BOX |
| 0+200 | 100.24 | 97.840 | TOP OF PIPE |
| 0+209.1 | 100.43 | 98.030 | FIRE HYDRANT LEAD |
| 0+220 | 100.22 | 97.820 | TOP OF PIPE |
| 0+238.3 | 100.48 | 98.080 | 45° HORIZONTAL BEND |
| 0+244.3 | 100.45 | 98.050 | 22½° HORIZONTAL BEND |
| 0+260.7 | 100.35 | 97.950 | 22½° HORIZONTAL BEND |
| 0+277.1 | 100.57 | 98.170 | 45° HORIZONTAL BEND |
| 0+284.9 | 100.66 | 98.260 | 45° HORIZONTAL BEND |
| 0+293.8 | 100.57 | 98.170 | FIRE HYDRANT LEAD |
| 0+320 | 100.73 | 98.330 | TOP OF PIPE |
| 0+340 | 100.50 | 98.100 | TOP OF PIPE |
| 0+354.2 | 100.68 | 98.280 | 200mmØ VALVE AND VALVE BOX |
| 0+360.2 | 100.64 | 98.240 | 200mmØ X 150mmØ TEE |
| 0+366.2 | 100.62 | 98.220 | 200mmØ VALVE AND VALVE BOX |
| 0+380 | 100.71 | 98.310 | TOP OF PIPE |
| 0+400 | 100.85 | 98.450 | TOP OF PIPE |
| 0+414.7 | 100.80 | 98.400 | 200mmØ X 150mmØ TEE |
| 0+420.7 | 100.84 | 98.440 | 200mmØ VALVE AND VALVE BOX |
| 0+440 | 100.73 | 98.330 | TOP OF PIPE |
| 0+450.5 | 100.91 | 98.510 | FIRE HYDRANT LEAD |
| 0+480 | 101.06 | 98.660 | TOP OF PIPE |
| 0+486 | 101.20 | 98.800 | 200mmØ VALVE AND VALVE BOX |
| 0+492 | 101.25 | 98.850 | 200mmØ X 200mmØ TEE |

## 200mmØ / 100mmØ WATERMAIN C

| STATION | FINISHED GRADE | TOP OF W/M | ITEM |
|---|---|---|---|
| 0+000 | 101.07 | 98.670 | 200mmØ X 200mmØ TEE |
| 0+006 | 101.06 | 98.660 | 200mmØ VALVE AND VALVE BOX |
| 0+020 | 101.06 | 98.660 | TOP OF PIPE |
| 0+035 | 101.29 | 98.890 | 200mmØ VALVE AND VALVE BOX |
| 0+041 | 101.25 | 98.850 | 200mmØ X 200mmØ TEE |
| 0+047 | 101.33 | 98.930 | 200mmØ X 100mmØ REDUCER |
| 0+058.9 | 101.13 | 98.730 | 50mmØ TVS |
| 0+59.4 | 101.13 | 98.730 | 100mmØ CAP AND THRUST BLOCK |

## 150mmØ WATERMAIN D

| STATION | FINISHED GRADE | TOP OF W/M | ITEM |
|---|---|---|---|
| 0+000 | 100.49 | 98.090 | 200mmØ X 150mmØ TEE |
| 0+006 | 100.64 | 98.240 | 150mmØ VALVE AND VALVE BOX |
| 0+020 | 100.54 | 98.140 | TOP OF PIPE |
| 0+035.1 | 100.72 | 98.320 | 150mmØ VALVE AND VALVE BOX |
| 0+041.1 | 100.80 | 98.400 | 200mmØ X 150mmØ TEE |

## INLET CONTROL DEVICES

| TRIBUTARY AREA ID | CATCHBASIN ID | 100YR HEAD (m) | 100YR RELEASE RATE (L/s) | ICD TYPE |
|---|---|---|---|---|
| L2000A | CB500 | 1.58 | 17.2 | IPEX TEMPEST HF (83mm ORIFICE) |
| L2001A | CB504 | 1.68 | 23.3 | IPEX TEMPEST HF (95mm ORIFICE) |
| L2001B | CB505 | 1.63 | 4.6 | IPEX TEMPEST LMF 65 |
| L2002A | CB506 | 1.71 | 27.1 | IPEX TEMPEST HF (102mm ORIFICE) |
| L2002B | CB507 | 1.73 | 42.2 | IPEX TEMPEST HF (127mm ORIFICE) |
| L2003A | CB501 | 1.73 | 23.6 | IPEX TEMPEST HF (95mm ORIFICE) |
| L2003B | CB502 | 1.68 | 23.3 | IPEX TEMPEST HF (95mm ORIFICE) |
| L2004A | CB503 | 1.68 | 17.8 | IPEX TEMPEST HF (83mm ORIFICE) |
| L2005A | CB508 | 1.68 | 23.3 | IPEX TEMPEST HF (95mm ORIFICE) |
| L2006A | CB512 | 1.73 | 42.2 | IPEX TEMPEST HF (127mm ORIFICE) |
| L2006B | CB516 | 1.68 | 4.7 | IPEX TEMPEST LMF 65 |
| L2006C | CB513 | 1.66 | 41.4 | IPEX TEMPEST HF (127mm ORIFICE) |
| L2006D | CB517 | 1.63 | 26.4 | IPEX TEMPEST HF (102mm ORIFICE) |
| L2007A | CB514 | 1.71 | 30.4 | IPEX TEMPEST HF (108mm" ORIFICE) |
| L2007B | CB515 | 1.68 | 11.6 | IPEX TEMPEST LMF 100 |
| L2008A | CB509 | 1.73 | 18.0 | IPEX TEMPEST HF (83mm ORIFICE) |
| L2009A | CB510 | 1.73 | 42.2 | IPEX TEMPEST HF (127mm ORIFICE) |
| L2009B | CB511 | 1.71 | 42.0 | IPEX TEMPEST HF (127mm ORIFICE) |

## SEWER AND WATERMAIN CROSSING TABLE

| CROSSING | STM INV | STM OBV | SAN INV | SAN OBV | WTR TOP | WTR BTM |
|---|---|---|---|---|---|---|
| 1 | 97.43 | 97.80 | 96.72 | 96.92 | 98.50 | 98.30 |
| 2 | (97.27) 97.35 | (97.88) 97.80 | 96.79 | 96.96 | | |
| 3 | (97.28) 97.36 | (97.89) 97.81 | 96.77 | 96.97 | 98.51 | 98.51 |
| 4 | | | 96.80 | 97.00 | 98.00 | 97.80 |
| 5 | 97.58 | 97.96 | 96.95 | 97.15 | | |
| 6 | 97.59 | 97.97 | 97.03 | 97.23 | 98.67 | 98.47 |
| 7 | 97.96 | 98.26 | 97.31 | 97.51 | | |
| 8 | 97.97 | 98.27 | 97.35 | 97.55 | 98.97 | 98.77 |
| 9 | | | 97.60 | 97.80 | 98.88 | 98.68 |
| 10 | 97.74 | 98.11 | 97.17 | 97.37 | 98.81 | 98.68 |
| 11 | 97.57 | 97.95 | 97.25 | 97.45 | | |
| 12 | (97.42) 97.50 | (98.03) 97.95 | 96.91 | 97.11 | 98.65 | 98.45 |

* BRACKETS DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS


Stantec

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## Legend

- PROPOSED WATERMAIN
- PROPOSED VALVE AND VALVE BOX
- PROPOSED VALVE CHAMBER
- PROPOSED REDUCER
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED DITCH INLET CATCHBASIN
- PROPOSED SUBDRAIN CATCHBASIN
- EXISTING WATERMAIN
- EXISTING VALVE AND VALVE BOX
- EXISTING VALVE CHAMBER
- EXISTING REDUCER
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING CATCHBASIN MANHOLE
- EXISTING CATCHBASIN
- EXISTING SUBDRAIN CATCHBASIN
- EXISTING SWALE
- DC — PROPOSED DEPRESSED CURB LOCATIONS
- PROPOSED BARRIER CURB
- THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 1.5m. THERMAL INSULATION ON WATERMAIN WHERE COVER IS LESS THAN 2.4m AS PER W22.
- 1M 2M — NUMBER OF WATER METERS
- 1RM 2RM — NUMBER OF REMOTE WATER METER
- W — ADDITIONAL 19mmØ PEX WATER SERVICE FOR IRRIGATION.
- C — CONTROL CENTER FOR IRRIGATION SYSTEM.
- CMB — PROPOSED COMMUNITY MAILBOX LOCATIONS
- BACK TO BACK TERRACE HOME SERVICES
  - 200mm STORM SERVICE PVC SDR 28 @ 1% MIN
  - 150mm SANITARY SERVICE PVC SDR 28 @ 1% MIN
  - 19mm PEX TUBING WATER SERVICE C/W CURB STOP AND SERVICE POST
- PHASE 1 BOUNDARY
- PHASE 2 BOUNDARY

1. FINAL SERVICE LATERAL SIZES TO BE CONFIRMED BY MECHANICAL CONSULTANT.
2. ALL ROOF EAVES TROUGH TO OUTLET TO INTERNAL SURFACE PARKING AREAS.

| | | | | |
|---|---|---|---|---|
| 1 | ISSUED TO CITY FOR SPA | MJS | DCT | 19.05.15 |
| Revision | | By | Appd. | YY.MM.DD |
| File Name: | 160401433-DB | MJS | DT/SG | MJS | 19.05.14 |
| | | Dwn. | Chkd. | Dsgn. | YY.MM.DD |

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. C. THIFFAULT
100186107
15/05/2019
PROVINCE OF ONTARIO

Client/Project

MATTAMY (MONARCH) LIMITED
50 Hines Road, suite 100

BLACKSTONE BLOCK 428

OTTAWA, ON

Title

# SITE SERVICING PLAN

Project No. 160401433
Scale 1:500 (0, 5, 15, 25m)

Drawing No. SSP-1
Sheet 3 of 7
Revision 1

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2019/05/15 8:21 AM By: Sharp, Mike

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