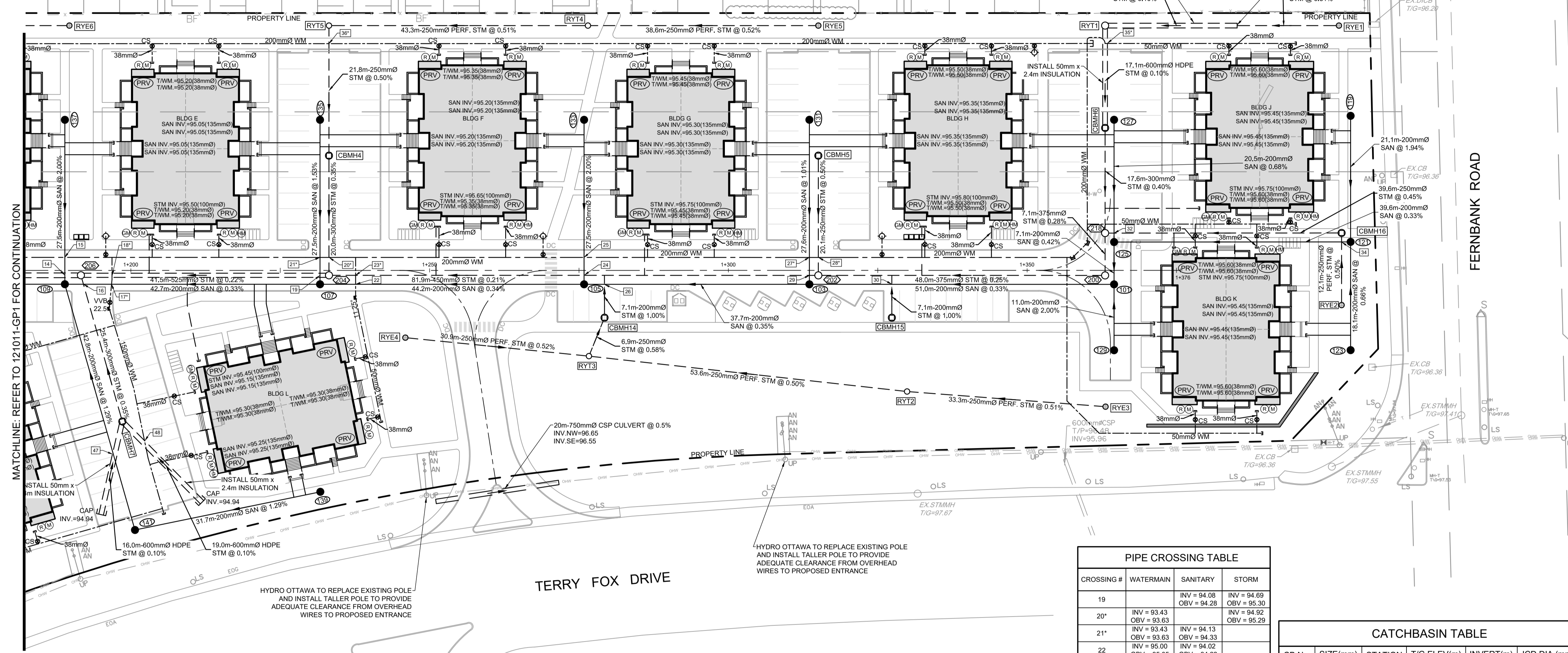
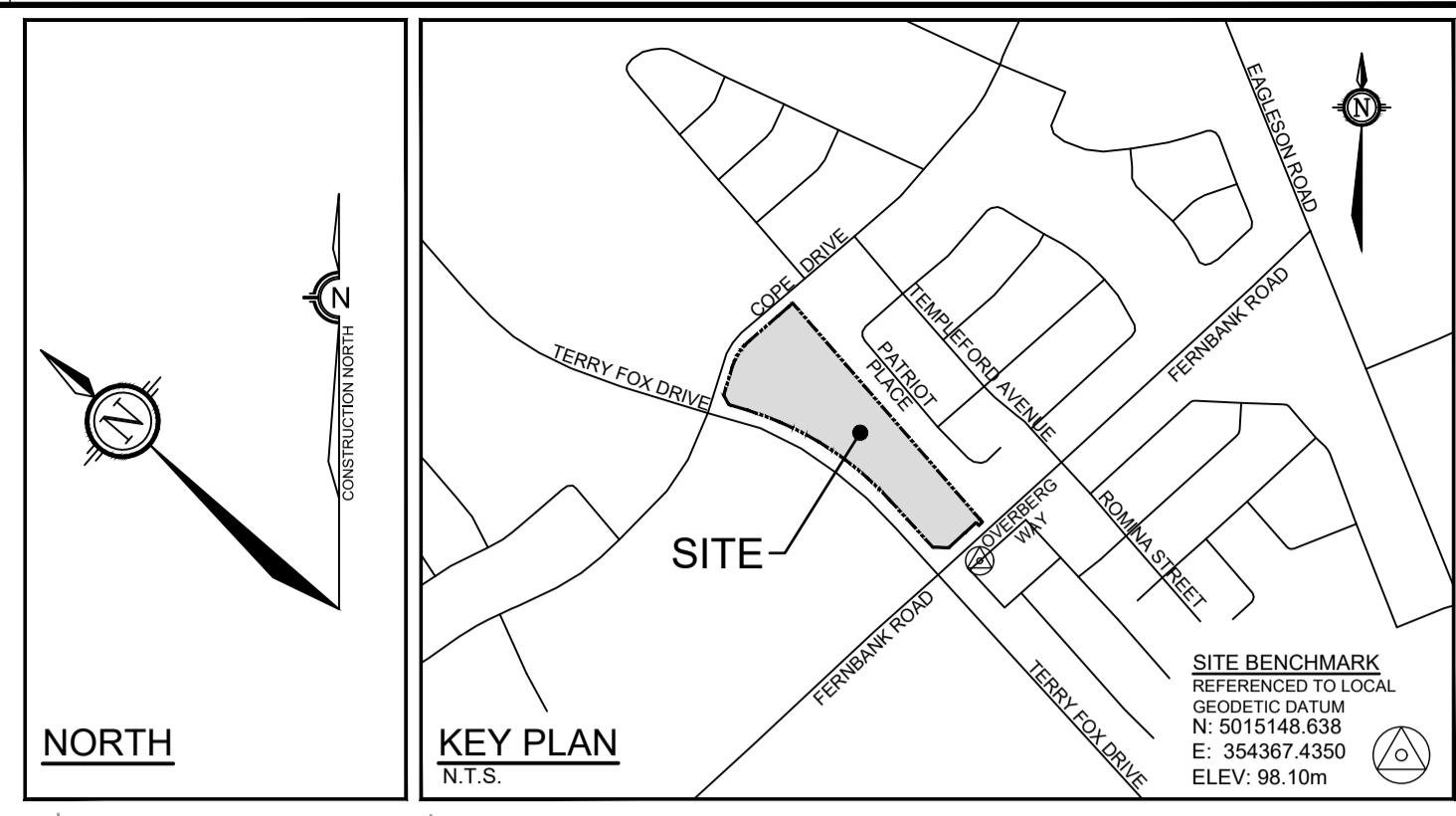


LEGEND

- SITE BOUNDARY
- PROPOSED STORM MANHOLE & SEWER
- PROPOSED SANITARY MANHOLE & SEWER
- PROPOSED WATERMAIN
- CS — PROPOSED CURB STOP LOCATION
- DMA — PROPOSED WATER CHAMBER (AS PER CITY OF OTTAWA DETAIL W3)
- HYD — PROPOSED HYDRANT C/W VALVE
- CBM1 — PROPOSED CATCHBASIN
- CBMH1 — PROPOSED CATCHBASIN MANHOLE
- RYE1 — PROPOSED REAR YARD ELBOW
- RYT1 — PROPOSED REAR YARD TEE
- PROPOSED WATER METER LOCATION
- PROPOSED REMOTE WATER METER LOCATION
- PROPOSED GAS METER LOCATION
- PROPOSED PRESSURE REDUCING VALVE
- PROPOSED RETAINING WALL
- EXISTING STORM MANHOLE AND SEWER
- EXISTING SANITARY MANHOLE AND SEWER
- EXISTING WATERMAIN
- G — EXISTING UNDERGROUND GAS
- WB — EXISTING VALVE AND VALE BOX
- EX. HYD — EXISTING FIRE HYDRANT
- EX. CB — EXISTING CATCHBASIN
- T/G — EXISTING TOP OF GRATE
- HGL — EXISTING HYDRAULIC GRADE LINE
- EX. UP — EXISTING UTILITY POLE C/W GUY WIRES
- EXISTING STREETLIGHT



| SAN MANHOLE TABLE | | | | |
|-------------------|----------|----------|-------------|----------------------------------|
| MANHOLE ID | SIZE(mm) | STATION | T/G ELEV(m) | INVERT(m) |
| 101 | 1200 | 1+364.55 | 97.63 | NW=94.45 SW=94.85 NE=94.51 |
| 103 | 1200 | 1+313.56 | 97.56 | SE=94.28 NW=94.28 NE=94.34 |
| 105 | 1200 | 1+275.85 | 97.41 | SE=94.15 NW=94.15 NE=94.21 |
| 107 | 1200 | 1+231.65 | 97.41 | SE=94.00 NW=94.00 NE=94.06 |
| 109 | 1200 | 1+188.95 | 97.23 | SE=93.86 NW=93.86 SW=93.92 |
| 119 | 1200 | | 97.90 | SW=95.20 |
| 121 | 1200 | | 97.50 | NE=94.79 SW=94.73 NW=94.73 |
| 123 | 1200 | | 97.40 | NE=94.91 |
| 125 | 1200 | | 95.51 | SE=94.60 NE=94.54 SW=94.54 |
| 127 | 1200 | | 97.42 | SW=94.68 |
| 129 | 1200 | | 97.75 | NE=95.07 |
| 131 | 1200 | | 97.38 | SW=94.62 |
| 133 | 1200 | | 97.59 | SW=94.76 |
| 135 | 1200 | | 97.22 | SW=94.48 |
| 137 | 1200 | | 97.54 | SW=94.47 |
| 139 | 1200 | | 97.70 | NW=94.94 |
| 141 | 1200 | | 97.44 | SE=94.53 NE=94.47 |

| STM MANHOLE TABLE | | | | |
|-------------------|----------|----------|-------------|----------------------------------|
| MANHOLE ID | SIZE(mm) | STATION | T/G ELEV(m) | INVERT(m) |
| 200 | 1200 | 1+363.05 | 97.60 | NW=95.12 NE=95.18 |
| 202 | 1200 | 1+315.06 | 97.57 | SE=95.00 NE=95.13 NW=94.93 |
| 204 | 1200 | 1+233.15 | 97.42 | SE=94.76 NE=94.91 NW=94.69 |
| 206 | 1200 | 1+191.63 | 97.26 | SE=94.60 SW=94.83 NW=94.53 |
| 218 | 1200 | 1+363.05 | 97.54 | SE=95.32 NE=95.27 SW=95.20 |

| PIPE CROSSING TABLE | | | |
|---------------------|----------------------------|----------------------------|----------------------------|
| CROSSING # | WATERMAIN | SANITARY | STORM |
| 19 | INV = 93.43 OBV = 93.63 | INV = 94.08 OBV = 94.28 | INV = 94.69 OBV = 95.30 |
| 20* | INV = 93.43 OBV = 93.63 | INV = 94.13 OBV = 94.33 | INV = 94.92 OBV = 95.29 |
| 21* | INV = 95.00 OBV = 95.05 | INV = 94.02 OBV = 94.22 | |
| 22 | INV = 94.22 OBV = 94.27 | | INV = 94.77 OBV = 95.30 |
| 23* | INV = 94.95 OBV = 95.15 | INV = 94.24 OBV = 94.44 | INV = 94.85 OBV = 95.38 |
| 24 | INV = 94.95 OBV = 95.15 | INV = 94.30 OBV = 94.50 | |
| 25 | INV = 93.69 OBV = 93.89 | INV = 94.16 OBV = 94.36 | INV = 95.12 OBV = 95.32 |
| 26 | INV = 93.69 OBV = 93.89 | INV = 94.39 OBV = 94.59 | |
| 27* | INV = 93.69 OBV = 93.89 | INV = 94.30 OBV = 94.50 | INV = 95.14 OBV = 95.39 |
| 28* | INV = 94.36 OBV = 94.56 | INV = 94.93 OBV = 95.38 | INV = 94.93 OBV = 95.38 |
| 29 | INV = 94.33 OBV = 94.53 | INV = 95.54 OBV = 95.74 | |
| 30 | INV = 94.55 OBV = 94.75 | INV = 95.33 OBV = 95.53 | INV = 94.75 OBV = 95.82 |
| 32 | INV = 94.43 OBV = 94.63 | INV = 95.67 OBV = 95.87 | |
| 34 | INV = 94.85 OBV = 94.85 | INV = 95.35 OBV = 95.95 | INV = 94.85 OBV = 95.38 |
| 35* | INV = 94.43 OBV = 94.63 | INV = 95.13 OBV = 95.38 | |
| 36* | INV = 94.27 OBV = 94.47 | INV = 93.20 OBV = 93.40 | INV = 94.93 OBV = 95.53 |
| 43 | INV = 94.27 OBV = 94.47 | INV = 94.31 OBV = 94.51 | INV = 94.93 OBV = 95.53 |
| 47 | INV = 94.28 OBV = 94.43 | | INV = 94.93 OBV = 95.53 |
| 48 | | | INV = 94.93 OBV = 95.53 |

| CATCHBASIN TABLE | | | | |
|------------------|----------|----------|-------------|----------------------|
| CB No. | SIZE(mm) | STATION | T/G ELEV(m) | INVERT(m) |
| CBM4 | 1200 | | 97.15 | SW=94.98 NE=95.03 |
| CBM5 | 1200 | | 97.30 | SW=95.23 |
| CBM6 | 1500 | | 97.35 | SW=95.34 W=95.21 |
| CBMH4 | 1200 | 1+279.26 | 97.25 | NE=95.18 W=95.21 |
| CBMH5 | 1200 | 1+327.36 | 97.30 | NE=95.60 |
| CBMH6 | 1200 | | 97.45 | NW=95.50 SW=95.56 |

| REAR YARD CATCHBASIN TABLE | | | |
|----------------------------|----------|-------------|---------------------------------|
| CB No. | SIZE(mm) | T/G ELEV(m) | INVERT(m) |
| RYE1 | 375 | 96.80 | NW=95.48 |
| RYE2 | 375 | 97.20 | NE=95.62 |
| RYE3 | 375 | 97.25 | NW=95.75 |
| RYE4 | 375 | 97.30 | SE=95.60 |
| RYE5 | 375 | 97.10 | NW=95.62 |
| RYE6 | 375 | 97.05 | NW=95.45 |
| RYT1 | 750 | 97.05 | SW=95.36 SE=95.36 |
| RYT2 | 375 | 97.25 | SE=95.58 NW=95.58 |
| RYT3 | 375 | 97.25 | SE=95.31 NW=95.44 E=95.25 |
| RYT4 | 375 | 97.15 | NW=95.42 SE=95.42 |
| RYT5 | 375 | 97.05 | SW=95.14 SE=95.20 |

| SANITARY MANHOLES THAT REQUIRE WATERTIGHT LIDS AS PER OP&SD 401.030 | |
|---------------------------------------------------------------------|--|
| MH ID | |
| 105 | |
| 127 | |
| 131 | |
| 135 | |

* WATERMAIN CROSSING AS PER W25 & W25.2 PROVIDE THERMAL INSULATION AS PER W22 WHERE THERE IS LESS THAN 2.4m COVER.

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, 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.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

| SCALE | | | |
|--------|---------|-------|----------|
| DESIGN | CHECKED | DRAWN | APPROVED |
| DBB | | | |
| MSP | | | |
| MTM | | | |
| DBB | | | |
| MSP | | | |

| FOR REVIEW ONLY | | | |
|-----------------|----------------------------------|----------|-----|
| No. | REVISION | DATE | BY |
| 1. | ISSUED FOR CITY OF OTTAWA REVIEW | JUN 2/21 | DBB |

FOR REVIEW ONLY

DESIGN: DBB
CHECKED: MSP
DRAWN: MTM
CHECKED: DBB
APPROVED: MSP

PROFESSIONAL ENGINEER
D. D. BLAIR
100122737
June 2, 2021
PROVINCE OF ONTARIO

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Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

CITY OF OTTAWA
5331 FERNBANK ROAD
FERNBANK ZENS

DRAWING NAME: GENERAL PLAN OF SERVICES

PROJECT No.: 121011-00
REV: REV #1
DRAWING No.: 121011-GP2