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The diagram illustrates various utility symbols used in engineering plans, organized into two columns. Each symbol is accompanied by its name and specific details.

- PROPOSED WATERMAIN**: Symbol shows a horizontal line with a vertical pipe crossing it.
- PROPOSED VALVE AND VALVED BOX**: Symbol shows a circle with a cross inside, representing a valve.
- PROPOSED VALVE CHAMBER**: Symbol shows a circle with a cross inside, representing a chamber.
- PROPOSED REDUCER**: Symbol shows a triangle pointing upwards.
- PROPOSED FIRE HYDRANT**: Symbol shows a circle with a cross inside, representing a hydrant.
- PROPOSED SANITARY SEWER**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- PROPOSED STORM SEWER**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- PROPOSED CATCHBASIN MANHOLE**: Symbol shows a circle with a cross inside, representing a manhole.
- PROPOSED CATCHBASIN**: Symbol shows a circle with a cross inside, representing a catchbasin.
- PROPOSED DITCH INLET CATCHBASIN**: Symbol shows a circle with a cross inside, representing a ditch inlet catchbasin.
- PROPOSED SUBDRAIN CATCHBASIN**: Symbol shows a circle with a cross inside, representing a subdrain catchbasin.
- EXISTING WATERMAIN**: Symbol shows a horizontal line with a vertical pipe crossing it.
- EXISTING VALVE AND VALVE BOX**: Symbol shows a circle with a cross inside, representing a valve.
- EXISTING VALVE CHAMBER**: Symbol shows a circle with a cross inside, representing a chamber.
- EXISTING REDUCER**: Symbol shows a triangle pointing upwards.
- EXISTING FIRE HYDRANT**: Symbol shows a circle with a cross inside, representing a hydrant.
- EXISTING SANITARY SEWER**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- EXISTING STORM SEWER**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- EXISTING CATCHBASIN MANHOLE**: Symbol shows a circle with a cross inside, representing a manhole.
- EXISTING CATCHBASIN**: Symbol shows a circle with a cross inside, representing a catchbasin.
- EXISTING SUBDRAIN CATCHBASIN**: Symbol shows a circle with a cross inside, representing a subdrain catchbasin.
- EXISTING SWALE**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- DC**: Symbol shows a horizontal line with a vertical pipe crossing it, similar to the watermain symbol.
- THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 1.5m**: Symbol shows a hatched rectangular area.
- THERMAL INSULATION ON WATERMAIN WHERE COVER IS LESS THAN 0.4m**: Symbol shows a hatched rectangular area.
- WATER METER**: Symbol shows a circle with the letters "M" inside.
- REMOTE WATER METER**: Symbol shows a circle with the letters "RM" inside.
- ADDITIONAL 19mmØ PEX WATER SERVICE FOR IRRIGATION**: Symbol shows a square with the letters "WI" inside.
- CONTROL CENTER FOR IRRIGATION SYSTEM**: Symbol shows a square with the letters "C" inside.
- PROPOSED COMMUNITY MAILBOX LOCATIONS**: Symbol shows a rectangle with the letters "COMB" inside.
- PROPOSED SERVICE LATERAL**: Symbol shows a downward-pointing arrow.
- TERRACE FLATS SERVICES**: Symbol shows a horizontal line with a vertical pipe crossing it.
- 200mm STORM SERVICE PVC SUR 28 Ø 1% MIN**: Symbol shows a horizontal line with a vertical pipe crossing it.
- 150mm SANITARY SERVICE PVC SUR 28 Ø 1% MIN**: Symbol shows a horizontal line with a vertical pipe crossing it.
- 38mm WATER SERVICE SOFT COPPER K**: Symbol shows a horizontal line with a vertical pipe crossing it.
- C/W CURB STOP AND SERVICE POST, UNLESS OTHERWISE SHOWN**: Symbol shows a horizontal line with a vertical pipe crossing it.
- CLAY SEAL LOCATION AS PER GEOTECHNICAL REPORT**: Symbol shows a horizontal line with a vertical pipe crossing it.
- PROPOSED STREET LIGHT**: Symbol shows a vertical pole with a light fixture at the top.

1. FINAL SERVICE LATERAL SIZES TO BE CONFIRMED BY MECHANICAL CONSULTANT.
2. ALL TERRACE FLATS ROOF EAVES TROUGH TO OUTLET TO INTERNAL SURFACE PARKING AREAS.
3. SERVICING INFORMATION ON COULOIR ROAD BY STANTEC CONSULTING, TRAILSEDGE EAST SUBDIVISION, PHASE 1 DETAILED DESIGN (FEB 28, 2020)

|          |                        |    |       |          |
|----------|------------------------|----|-------|----------|
| 5        | RELOCATION OF HYDRANTS | JP | GR    | 21.12.01 |
| 4        | ISSUED FOR SPA         | JP | DT    | 21.11.11 |
| 3        | ISSUED FOR SPA         | JP | DT    | 21.09.09 |
| 2        | ISSUED FOR SPA         | JP | DT    | 21.04.30 |
| 1        | ISSUED FOR SPA         | JP | DT    | 20.12.16 |
| Revision |                        | By | Appd. | YY.MM.DD |

|                         |      |       |       |          |
|-------------------------|------|-------|-------|----------|
| File Name: 160401585-DB | JP   | DT/SG | JP    | 20.11.06 |
|                         | Dwn. | Chkd. | Dsgn. | YY.MM.DD |

Permit-Seal

Client/Project

RICHCRAFT GROUP OF COMPANIES  
2280 ST. LAURENT BLVD

PROPOSED RESIDENTIAL DEVELOPMENT  
TRAILSEDGE BLOCK 193 & 194

OTTAWA, ON

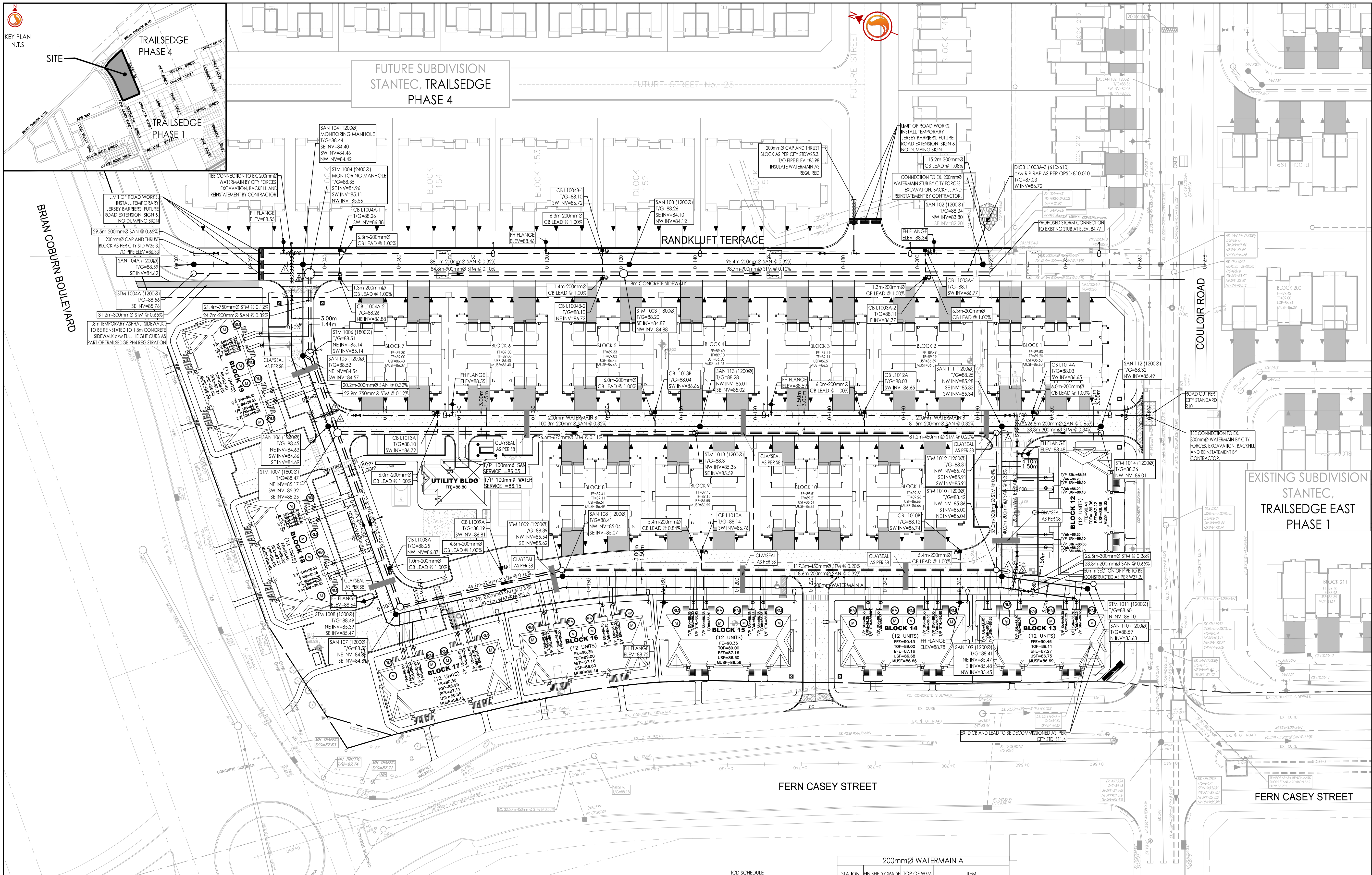
Title  
SITE SERVICING PLAN

Project No. 160401585

Scale 0 5 15 25m  
1:500

SSP-1 3 of 11 5

DWG# 18359



| 200mmØ WATERMAIN A |                |            |                                                 |
|--------------------|----------------|------------|-------------------------------------------------|
| STATION            | FINISHED GRADE | TOP OF W/M | ITEM                                            |
| D+000              | 88.44          | 85.96      | 200mmØ x 200mmØ RIE II SDR19<br>60mmØ WATERMAIN |
| D+002.9            | 88.53          | 86.13      | 45° VERTICAL BEND                               |
| D+003.3            | 88.52          | 86.56      | 45° VERTICAL BEND                               |
| D+007.7            | 88.42          | 86.52      | 45° VERTICAL BEND                               |
| D+008.2            | 88.43          | 86.53      | 45° VERTICAL BEND                               |
| D+012              | 88.52          | 86.12      | 200mmØ VALVE AND BOX                            |
| D+020              | 88.53          | 86.13      | 200mmØ VALVE AND BOX                            |
| D+028.2            | 88.53          | 86.13      | 22.5° HORIZONTAL BEND                           |
| D+040              | 88.49          | 86.09      | TOP OF WATERMAIN                                |
| D+045.8            | 88.42          | 86.02      | 200mmØ x 200mmØ RIE II SDR 18                   |
| D+060              | 88.57          | 86.17      | TOP OF WATERMAIN                                |

| 200mmØ WATERMAIN B |                |            |                                         |  |
|--------------------|----------------|------------|-----------------------------------------|--|
| STATION            | FINISHED GRADE | TOP OF W/M | ITEM                                    |  |
| +0+00              | 88.42          | 85.02      | 200mmØ x 20mmØ tie w/m w/ 3"            |  |
| +0+02              | 88.40          | 85.00      | 40" VERTICAL BEND                       |  |
| +0+04              | 88.72          | 85.34      | 40" VERTICAL BEND                       |  |
| +0+06.1            | 88.47          | 85.07      | 40" VERTICAL BEND                       |  |
| +0+06.9            | 89.36          | 85.96      | 40" VERTICAL BEND                       |  |
| +0+08              | 88.44          | 85.04      | 40" HORIZONTAL BEND                     |  |
| +0+10.7            | 89.36          | 85.96      | 40" HORIZONTAL BEND                     |  |
| +0+12.8            | 89.34          | 85.94      | 200mmØ VALVE AND BOX                    |  |
| +0+13.9            | 89.34          | 85.94      | TOP OF WATERMAIN                        |  |
| +0+18.2            | 88.21          | 84.81      | 200mmØ x 150mmØ HORIZONTAL TIE          |  |
| +0+20              | 88.20          | 84.80      | TOP OF WATERMAIN                        |  |
| +0+20              | 88.20          | 84.80      | TOP OF WATERMAIN                        |  |
| +0+20              | 88.25          | 85.85      | TOP OF WATERMAIN                        |  |
| +0+20              | 88.18          | 85.78      | TOP OF WATERMAIN                        |  |
| +0+20              | 88.35          | 85.95      | TOP OF WATERMAIN                        |  |
| +0+24.3            | 88.35          | 85.95      | 200mmØ x 150mmØ HORIZONTAL TIE          |  |
| +0+40              | 88.19          | 85.79      | TOP OF WATERMAIN                        |  |
| +0+46              | 88.16          | 85.76      | TOP OF WATERMAIN                        |  |
| +0+48              | 88.39          | 85.99      | TOP OF WATERMAIN                        |  |
| +0+58.6            | 88.24          | 85.84      | 200mmØ VALVE AND BOX                    |  |
| +0+59              | 88.18          | 85.78      | 200mmØ x 20mmØ tie w/m w/ 3"            |  |
| +0+58              | 88.19          | 85.79      | TOP OF WATERMAIN                        |  |
| +0+61.6            | 88.17          | 85.77      | 200mmØ VALVE AND BOX                    |  |
| +0+62              | 88.16          | 85.76      | TOP OF WATERMAIN                        |  |
| +0+66.4            | 88.125         | 85.725     | 200mmØ x 150mmØ HORIZONTAL TIE EXTERIOR |  |

| 200mm Ø WATERMAIN C |                |            |                               |
|---------------------|----------------|------------|-------------------------------|
| STATION             | FINISHED GRADE | TOP OF W/M | ITEM                          |
| +0000               | 88.18          | 85.78      | 200mm x 200mm TEE w/ 90° BEND |
| +0001.4             | 89.22          | 85.82      | 45° VERTICAL BEND             |
| +0002.6             | 89.24          | 85.84      | 45° VERTICAL BEND             |
| +0006.6             | 89.29          | 85.94      | 45° VERTICAL BEND             |
| +0007.2             | 89.30          | 85.95      | 45° VERTICAL BEND             |
| +0007.7             | 89.30          | 85.94      | 200mm VALVE AND BOX           |
| +0010.4             | 89.27          | 85.87      | 200mm x 150mm 1/2" DRINK TEE  |
| +0013.5             | 89.41          | 86.01      | 200mm x 200mm TEE w/ 90° BEND |
| +0014.0             | 89.40          | 86.00      | 11.25" VERTICAL BEND          |
| +0040.1             | 89.39          | 85.99      | 45° VERTICAL BEND             |
| +0041.1             | 89.39          | 87.02      | 45° VERTICAL BEND             |
| +0045.1             | 89.39          | 87.02      | 45° VERTICAL BEND             |
| +0046.2             | 89.41          | 86.01      | 45° VERTICAL BEND             |
| +0047               | 89.40          | 86.00      | 200mm x 200mm TEE w/ 90° BEND |

**SITE PLAN NOTES:**  
ALL CURBS WITHIN SITE ARE  
TO BE BARRIER CURB AS PER  
CITY STANDARD SC1.1  
ALL SIDEWALKS WITHIN SITE  
ARE TO BE 1.5m ASPHALT  
SIDEWALK

| JCD SCHEDULE |          |                 |            |                   |                   |  |
|--------------|----------|-----------------|------------|-------------------|-------------------|--|
| Area ID      | CS Name  | Gravimeter (mm) | Invert (m) | 100-Year Head (m) | 100-Year Row (US) |  |
| L1000A       | L1000A.1 | 108             | 86.73      | 1.57              | 29                |  |
| L1000A       | L1000A.2 | 108             | 86.73      | 1.57              | 29                |  |
| L1004A       | L1004A.1 | 127             | 86.86      | 1.57              | 39                |  |
| L1004A       | L1004A.2 | 127             | 86.86      | 1.57              | 39                |  |
| L1004B       | L1004B.1 | 127             | 86.72      | 1.58              | 39                |  |
| L1004B       | L1004B.2 | 127             | 86.72      | 1.58              | 39                |  |
| L1009A       | L1009A.1 | 127             | 86.71      | 1.60              | 43                |  |
| L1009A       | L1009A.2 | 127             | 86.71      | 1.58              | 43                |  |
| L1010A       | L1010A.1 | 127             | 86.76      | 1.61              | 43                |  |
| L1010B       | L1010B.1 | 127             | 86.74      | 1.58              | 56                |  |
| L1012A       | L1012A.1 | 127             | 86.65      | 1.65              | 58                |  |
| L1013A       | L1013A.1 | 152             | 86.72      | 1.67              | 58                |  |
| L1013B       | L1013B.1 | 152             | 86.72      | 1.62              | 57                |  |
| L1014A       | L1014A.1 | 127             | 86.65      | 1.63              | 40                |  |

| SEWER AND WATERMAIN CROSSING TABLE                                                    |               |               |         |         |         |         |                                                   |
|---------------------------------------------------------------------------------------|---------------|---------------|---------|---------|---------|---------|---------------------------------------------------|
| CROSSING                                                                              | STM INV       | STM OBV       | SAN INV | SAN OBV | WTR TOP | WTR BTM | NOTES                                             |
|  | 85.56         | 85.86         | 84.42   | 84.62   | 86.56   | 86.36   | DEFLECT WATERMAIN AS PER WSS2 AND INSULATE PER W2 |
|  | 85.86         | 86.16         | 84.46   | 84.66   |         |         |                                                   |
|  | 85.18 (86.08) | 85.93 (86.03) | 84.63   | 84.83   | 86.72   | 86.52   | DEFLECT WATERMAIN AS PER WSS2 AND INSULATE PER W2 |
|  | 85.18 (86.08) | 85.93 (86.03) | 84.69   | 84.89   |         |         |                                                   |
|  | 86.00         | 86.30         | 85.47   | 85.67   |         |         |                                                   |
|  | 86.02         | 86.32         | 85.50   | 85.70   | 87.02   | 86.82   | DEFLECT WATERMAIN AS PER WSS2 AND INSULATE PER W2 |
|  | 85.91         | 86.21         | 85.34   | 85.54   |         |         |                                                   |
|  | 85.94         | 86.24         | 85.34   | 85.54   | 86.94   | 86.74   | DEFLECT WATERMAIN AS PER WSS2 AND INSULATE PER W2 |

\*750mmØ PIPE WALL THICKNESS=0.108m

**APPROVED**  
By Geraldine Wildman at 11:37 am, Dec 06, 2021

**GERALDINE WILDMAN**  
**A/MANAGER, DEVELOPMENT REVIEW EAST BRANCH**  
**PLANNING, INFRASTRUCTURE & ECONOMIC**  
**DEVELOPMENT DEPARTMENT, CITY OF OTTAWA**

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2021/12/01 8:30 PM By: Palangi, Jupiter

ORIGINAL SHEET - ARCH D