# LIMIT OF CONSTRUCTION PHASING LINE BARRIER CURB MOUNTABLE CURB DEPRESSED BARRIER CURB CONCRETE SIDEWALK TACTILE WALKING SURFACE INDICATOR ASPHALT SIDEWALK / PATHWAY

BUS STOP CONCRETE / ASPHALT

## **GRADING LEGEND**

| GRADING LEGEND                                              |                                                                                                                                                                                                        |  |  |  |  |  |  |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
|                                                             | PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE                                                                                                                                                            |  |  |  |  |  |  |
| 1.3%                                                        | SLOPE C/W FLOW DIRECTION                                                                                                                                                                               |  |  |  |  |  |  |
|                                                             | MAJOR OVERLAND FLOW ROUTE                                                                                                                                                                              |  |  |  |  |  |  |
| ×<br>104.62                                                 | PROPOSED SPOT GRADE                                                                                                                                                                                    |  |  |  |  |  |  |
| ×104.40<br>(S)                                              | PROPOSED SWALE GRADE                                                                                                                                                                                   |  |  |  |  |  |  |
| ×104.50<br>(S)HP                                            | PROPOSED SWALE HIGH POINT GRADE                                                                                                                                                                        |  |  |  |  |  |  |
| 104.60<br>103.59 ×                                          | LOT CORNER GRADE C/W EXISTING GRADE                                                                                                                                                                    |  |  |  |  |  |  |
| 96.79                                                       | FULL STATIC PONDING GRADE                                                                                                                                                                              |  |  |  |  |  |  |
| 96.79                                                       | 2-YEAR STATIC PONDING GRADE                                                                                                                                                                            |  |  |  |  |  |  |
| 103.50<br>LILILIL                                           | RETAINING WALL C/W TOP OF WALL AND GRASS GRADE TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE PRESSURE REDUCING VALVE                                                                                    |  |  |  |  |  |  |
| Mn.F.FL. 93.45<br>Lw.F.FL 90.25<br>U.S.F. 89.59<br>M.U.S.F. | - MINIMUM FINISHED FLOOR ELEVATION - MINIMUM LOWER FLOOR ELEVATION - UNDERSIDE OF FOOTING ELEVATION - MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer obverts, or hydraulic grade line) |  |  |  |  |  |  |
| WU                                                          | WALKUP UNIT                                                                                                                                                                                            |  |  |  |  |  |  |
| WO                                                          | WALKOUT UNIT                                                                                                                                                                                           |  |  |  |  |  |  |
| NS                                                          | NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)                                                                                                                                   |  |  |  |  |  |  |
| BS                                                          | BACKSPLIT UNIT (1.5m frost cover on footings)                                                                                                                                                          |  |  |  |  |  |  |
| FF                                                          | NOISE BARRIER LOCATION                                                                                                                                                                                 |  |  |  |  |  |  |
| FF                                                          | NOISE BARRIER GATE                                                                                                                                                                                     |  |  |  |  |  |  |
|                                                             | RIP-RAP                                                                                                                                                                                                |  |  |  |  |  |  |

| O MH118A                              | SANITARY MANHOLE                                                             |
|---------------------------------------|------------------------------------------------------------------------------|
| 200mmØ SAN                            | SANITARY SEWER                                                               |
| MH109 MH118                           | STORM MANHOLE                                                                |
| 825mmØ STM                            | STORM SEWER - LESS THAN 900Ø                                                 |
| 900mmØ STM                            | STORM SEWER - 900Ø AND GREATER                                               |
| 200Ø WATERMAIN                        | WATERMAIN                                                                    |
| ■ CB100                               |                                                                              |
| T/G 104.10<br>CICB101                 | STREET CATCHBASIN C/W TOP OF GRATE                                           |
| G/G 104.25                            | CURB INLET CATCHBASIN C/W GUTTER GRADE                                       |
| T/G 104.10                            | DOUBLE CATCHBASIN C/W TOP OF GRATE                                           |
| DCICB101<br>G/G 104.25                | DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE                                |
| ■ DI101<br>T/G 103.59                 | DITCH INLET MANHOLE C/W TOP OF GRATE                                         |
| CBMH101<br>T/G 103.59                 | CATCHBASIN MANHOLE C/W TOP OF GRATE                                          |
| RYCB<br>T/G 104.35                    | REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE            |
| <del>O</del> T/G 104.35<br>INV 103.35 | REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT            |
| GT/G 104.50<br>NV 103.50              | REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT            |
| T/G 104.35<br>INV 103.35              | REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT |
| T/G 104.35<br>INV 103.35              | REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT      |
|                                       | PERFORATED REAR YARD SUBDRAIN                                                |
| 300mmØ CSP                            | CSP CULVERT C/W DIAMETER                                                     |
| <b>⊗</b> V&VB                         | VALVE AND VALVE BOX                                                          |
| <b>⊗</b> V&VC                         | VALVE AND VALVE CHAMBER                                                      |
| <b>→</b> □                            | PARK VALVE CHAMBER C/W SERVICE POST                                          |
| ♦ HYD<br>104.35                       | FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION                                  |
| 200Ø WMRED 150Ø WM                    | WATERMAIN REDUCER                                                            |
| 2 VBENDS                              | VERTICAL BEND LOCATION                                                       |
| •                                     | WATER SPOUT                                                                  |
|                                       |                                                                              |

SIAMESE CONNECTION (IF REQUIRED)

WATERMAIN IDENTIFICATION (IF REQUIRED)

PIPE CROSSING IDENTIFICATION (IF REQUIRED)

INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)

100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE

METER (IF REQUIRED)

REMOTE METER (IF REQUIRED)

SINGLE SERVICE LOCATION

DOUBLE SERVICE LOCATION

UNDERSIDE OF FOOTING ELEVATION

CLAY SEAL IN SEWER / WATERMAIN TRENCH

HGL 101.79

USF 101.79

SERVICING LEGEND

| PIPE INTERFERENCE TABLE |                      |                   |           |                 | PIPE INTERFE         | RENCE TABLE           |           | PIPE INTERFERENCE TABLE |                      |                   |           |
|-------------------------|----------------------|-------------------|-----------|-----------------|----------------------|-----------------------|-----------|-------------------------|----------------------|-------------------|-----------|
| - 3                     | PIPE 1               | PIPE 2            | Clearance | Crossing<br>No. | PIPE 1               | PIPE 2                | Clearance | Crossing No.            | PIPE 1               | PIPE 2            | Clearance |
| 1                       |                      |                   | 0.510     | 27              | SAN<br>Bottom 89.305 | WM<br>Top 88.779      | 0.526     | 53                      | SAN<br>Bottom 89.226 | STM<br>Top 88.240 | 0.985     |
| 2                       |                      |                   | 0.502     | 28              | WM<br>Bottom 89.181  | SAN<br>Top 88.464     | 0.716     | 54                      | SAN<br>Bottom 88.501 | STM<br>Top 87.655 | 0.845     |
| 3                       | STM<br>Bottom 89.273 | WM<br>Top 88.748  | 0.525     | 29              | WM<br>Bottom 88.751  | Nutting<br>Top 87.393 | 1.358     | 55                      | STM<br>Bottom 89.309 | STM<br>Top 88.262 | 1.047     |
| 4                       | SAN<br>Bottom 89.254 | WM<br>Top 88.748  | 0.506     | 30              | WM<br>Bottom 88.705  | Nutting<br>Top 88.096 | 0.609     | 56                      | SAN<br>Bottom 89.290 | STM<br>Top 88.257 | 1.033     |
| 5                       | SAN<br>Bottom 89.190 | WM<br>Top 88.682  | 0.508     | 31              | WM<br>Bottom 88.870  | STM<br>Top 87.500     | 1.370     | 57                      | SAN<br>Bottom 88.908 | STM<br>Top 88.613 | 0.295     |
| 6                       | WM<br>Bottom 88.870  | STM<br>Top 87.660 | 1.210     | 32              | WM<br>Bottom 88.820  | SAN<br>Top 88.341     | 0.479     | 58                      | STM<br>Bottom 89.261 | STM<br>Top 88.627 | 0.634     |
| 7                       | WM<br>Bottom 88.879  | STM<br>Top 87.622 | 1.257     | 33              | STM<br>Bottom 89.304 | WM<br>Top 88.788      | 0.516     | 59                      | SAN<br>Bottom 88.099 | STM<br>Top 87.429 | 0.670     |
| 8                       | WM<br>Bottom 88.901  | SAN<br>Top 88.610 | 0.292     | 34              | SAN<br>Bottom 89.304 | WM<br>Top 88.772      | 0.533     | 60                      | SAN<br>Bottom 88.245 | STM<br>Top 87.468 | 0.777     |
| 9                       | WM<br>Bottom 89.076  | SAN<br>Top 88.818 | 0.258     | 35              | WM<br>Bottom 89.041  | SAN<br>Top 88.757     | 0.284     | 61                      | STM<br>Bottom 89.742 | SAN<br>Top 89.374 | 0.368     |
| 10                      | WM<br>Bottom 89.076  | STM<br>Top 87.708 | 1.368     | 36              | STM<br>Bottom 89.304 | WM<br>Top 88.804      | 0.500     | 62                      | SAN<br>Bottom 88.905 | STM<br>Top 87.926 | 0.979     |
| 11                      | SAN<br>Bottom 89.254 | WM<br>Top 88.724  | 0.531     | 37              | WM<br>Bottom 89.245  | SAN<br>Top 88.965     | 0.280     | 63                      | SAN<br>Bottom 88.887 | STM<br>Top 87.923 | 0.964     |
| 12                      | SAN<br>Bottom 89.194 | WM<br>Top 88.663  | 0.532     | 38              | STM<br>Bottom 89.308 | WM<br>Top 88.805      | 0.503     | 64                      | SAN<br>Bottom 89.048 | STM<br>Top 88.064 | 0.984     |
| 13                      | SAN<br>Bottom 89.280 | WM<br>Top 88.775  | 0.505     | 39              | SAN<br>Bottom 88.881 | WM<br>Top 88.272      | 0.608     | 65                      | SAN<br>Bottom 89.326 | STM<br>Top 87.731 | 1.595     |
| 14                      | SAN<br>Bottom 89.280 | WM<br>Top 88.776  | 0.504     | 40              | WM<br>Bottom 88.953  | STM<br>Top 87.517     | 1.436     | 66                      | SAN<br>Bottom 89.326 | STM<br>Top 87.707 | 1.619     |
| 15                      | WM<br>Bottom 88.872  | STM<br>Top 88.609 | 0.263     | 41              | WM<br>Bottom 88.953  | SAN<br>Top 88.398     | 0.555     | 67                      | SAN<br>Bottom 88.700 | STM<br>Top 87.782 | 0.918     |
| 16                      | WM<br>Bottom 88.723  | STM<br>Top 87.913 | 0.810     | 42              | SAN<br>Bottom 89.385 | WM<br>Top 88.885      | 0.500     | 68                      | SAN<br>Bottom 89.265 | STM<br>Top 87.855 | 1.410     |
| 17                      | WM<br>Bottom 89.300  | SAN<br>Top 89.024 | 0.276     | 43              | SAN<br>Bottom 89.385 | WM<br>Top 88.882      | 0.502     | 69                      | SAN<br>Bottom 88.902 | STM<br>Top 87.917 | 0.986     |
| 18                      | WM<br>Bottom 88.774  | STM<br>Top 88.253 | 0.521     | 44              | WM<br>Bottom 89.293  | STM<br>Top 87.919     | 1.374     | 70                      | SAN<br>Bottom 89.036 | STM<br>Top 87.982 | 1.054     |
| 19                      | WM<br>Bottom 89.035  | STM<br>Top 87.799 | 1.235     | 45              | WM<br>Bottom 89.287  | SAN<br>Top 89.033     | 0.254     | 71                      | SAN<br>Bottom 88.683 | STM<br>Top 87.714 | 0.969     |
| 20                      | WM<br>Bottom 89.169  | SAN<br>Top 88.899 | 0.270     | 46              | SAN<br>Bottom 89.434 | WM<br>Top 88.932      | 0.502     | 72                      | SAN<br>Bottom 88.432 | STM<br>Top 87.617 | 0.815     |
| 21                      | SAN<br>Bottom 89.380 | WM<br>Top 88.832  | 0.548     | 47              | SAN<br>Bottom 89.247 | WM<br>Top 88.726      | 0.521     | 73                      | SAN<br>Bottom 89.347 | STM<br>Top 87.657 | 1.690     |
| 22                      | SAN<br>Bottom 89.380 | WM<br>Top 88.834  | 0.546     | 48              | SAN<br>Bottom 89.293 | WM<br>Top 88.787      | 0.505     | 74                      | SAN<br>Bottom 89.321 | STM<br>Top 87.680 | 1.641     |
| 23                      | SAN<br>Bottom 89.380 | WM<br>Top 88.832  | 0.547     | 49              | WM<br>Bottom 89.507  | SAN<br>Top 89.187     | 0.320     | 75                      | SAN<br>Bottom 89.245 | STM<br>Top 87.773 | 1.472     |
| 24                      | WM<br>Bottom 88.868  | STM<br>Top 87.921 | 0.948     | 50              | WM<br>Bottom 88.941  | STM<br>Top 88.056     | 0.885     | 76                      | SAN<br>Bottom 89.221 | STM<br>Top 87.819 | 1.402     |
| 25                      | WM<br>Bottom 89.415  | SAN<br>Top 89.076 | 0.339     | 51              | STM<br>Bottom 89.893 | WM<br>Top 88.916      | 0.977     | 77                      | STM<br>Bottom 89.323 | SAN<br>Top 89.014 | 0.309     |
| 26                      | STM<br>Bottom 89.645 | WM<br>Top 89.124  | 0.521     | 52              | SAN<br>Bottom 89.294 | WM<br>Top 88.791      | 0.503     | 78                      | STM<br>Bottom 89.243 | SAN<br>Top 88.806 | 0.438     |
|                         |                      |                   |           |                 |                      |                       |           | 79                      | STM<br>Bottom 89.278 | SAN<br>Top 89.006 | 0.272     |
|                         |                      |                   |           |                 |                      |                       |           | 80                      | STM<br>Bottom 89.851 | SAN<br>Top 89.323 | 0.527     |
|                         |                      |                   |           |                 |                      |                       |           | 81                      | STM<br>Bottom 89.274 | SAN<br>Top 88.536 | 0.739     |
|                         |                      |                   |           |                 |                      |                       |           |                         |                      |                   |           |

# CATCHBASIN/CATCHBASIN MANHOLE/DITCH INLET DATA

| OAT OT BAON TO THE ACT OF THE LET BATA |                  |              |               |                 |        |             |          |                      |                  |                 |                     |                       |          |
|----------------------------------------|------------------|--------------|---------------|-----------------|--------|-------------|----------|----------------------|------------------|-----------------|---------------------|-----------------------|----------|
|                                        |                  |              |               | ELEVATION       |        | OUTLET PIPE |          | INLET CONTROL DEVICE |                  |                 |                     |                       |          |
| STRUCTURE ID                           | STORM<br>AREA ID | STRUCTURE    | FRAME & COVER | TOP OF<br>GRATE | INVERT |             | DIAMETER | ETER TYPE            | 100yr<br>Dynamic | RESTRICTED FLOW | ICD TYPE            | ORIFICE<br>SIZE       | COMMENTS |
|                                        | ANEA             |              |               |                 | INLET  | OUTLET      | (mm)     | ITPL                 | HEAD             | (I/s)           | CIRCULA             | CIRCULAR<br>(mm dia.) |          |
|                                        |                  |              |               |                 |        |             |          |                      |                  |                 |                     |                       |          |
| CB1                                    | MH126            | OPSD 705.010 | S19           | 91.30           |        | 89.90       | 200      | PVC DR35             | 1.630            |                 |                     |                       |          |
| CB2                                    | MH125            | OPSD 705.010 | S19           | 91.25           |        | 89.85       | 200      | PVC DR35             | 1.690            | 14.00           | CUSTOM IPEX MHF     |                       |          |
| CB3                                    | MH124            | OPSD 705.010 | S19           | 91.25           |        | 89.85       | 200      | PVC DR35             | 1.680            |                 |                     |                       |          |
| CB4                                    | MH102            | OPSD 705.010 | S19           | 91.30           |        | 89.90       | 200      | PVC DR35             | 1.610            | 8.00            | CUSTOM IPEX LMF     |                       |          |
| CB5                                    | MH101            | OPSD 705.010 | S19           | 91.17           |        | 89.77       | 200      | PVC DR35             | 1.640            | 8.00            | CUSTOM IPEX LMF     |                       |          |
| CB6                                    | MH100            | OPSD 705.010 | S19           | 91.16           |        | 89.76       | 200      | PVC DR35             | 1.540            | 8.00            | CUSTOM IPEX LMF     |                       |          |
| CB7                                    | MH113            | OPSD 705.010 | S19           | 91.25           |        | 89.85       | 200      | PVC DR35             | 1.660            | 12.00           | CUSTOM IPEX MHF     |                       |          |
| CB8                                    | CBMH9            | OPSD 705.010 | S19           | 91.33           |        | 89.93       | 200      | PVC DR35             | 1.600            | 18.00           | IPEX MHF            | 83                    |          |
| CBMH9                                  | CBMH9B           | OPSD 705.010 | S19           | 91.35           |        | 89.95       | 200      | PVC DR35             | 1.690            | 13.00           | CUSTOM IPEX MHF     |                       |          |
| CB10                                   | MH110            | OPSD 705.010 | S19           | 91.35           |        | 89.95       | 200      | PVC DR35             | 1.610            | 23.00           | CUSTOM IPEX HF      |                       |          |
| CB11                                   | MH127            | OPSD 705.010 | S19           | 91.20           |        | 89.80       | 200      | PVC DR35             | 1.660            | 12.00           | CUSTOM IPEX MHF     |                       |          |
| CB12                                   | MH127B           | OPSD 705.010 | S19           | 91.20           |        | 89.80       | 200      | PVC DR35             | 1.660            | 12.00           | COSTONTIFEX IVII II |                       |          |
| CB13                                   | MH130            | OPSD 705.010 | S19           | 91.30           |        | 89.90       | 200      | PVC DR35             | 1.650            | 8.00            | CUSTOM IPEX LMF     |                       |          |
| CBMH14                                 | MH111            | OPSD 705.010 | S19           | 91.35           |        | 89.95       | 200      | PVC DR35             | 1.680            | 6.00            | IPEX LMF            |                       |          |
| Temp CB                                | MH109            | OPSD 705.010 | S19           | 91.25           |        | 87.70       | 375      | PVC DR35             | 3.860            | 28.00           | IPEX MHF            | 102                   |          |
| CCB7                                   | MH100C           | S31          | S31           | 91.25           |        | 89.85       | 200      | PVC DR35             | 1.410            | 10.00           | CUSTOM IPEX MHF     |                       |          |
| ECB8                                   | MH100D           | S31          | S31           | 91.25           |        | 89.85       | 200      | PVC DR35             | 1.610            | 10.00           | CUSTOM IPEX MHF     |                       |          |
| TCB5                                   | MH109B           | S31          | S31           | 91.40           |        | 90.00       | 200      | PVC DR35             | 1.680            | 8.00            | CUSTOM IPEX LMF     |                       |          |
| CBMH126                                | CBMH126          | OPSD 705.010 | S25 & S24.1   | 91.48           |        | 86.90       | 450      | CONC                 | 4.844            | 14.00           | CUSTOM IPEX MHF     |                       |          |
| MH128                                  | MH127            | OPSD 705.010 | S25 & S24.1   | 91.52           |        | 87.53       | 450      | CONC                 | 4.156            | 12.00           | CUSTOM IPEX MHF     |                       |          |
| CBMH134                                | MH113            | OPSD 705.010 | S25 & S24.1   | 91.47           |        | 87.13       | 600      | CONC                 | 4.678            | 12.00           | CUSTOM IPEX MHF     |                       |          |
|                                        |                  |              |               |                 |        |             |          |                      |                  |                 |                     |                       |          |

#### NOTES:

- ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA
   STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCUTRES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARENTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING
- SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.

  3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DESCREPENCIES TO THE
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER, THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURSIDICTION AT THE EXPENSE OF THE CONTRACTOR.
- 6. WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
- 7. SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FUTHER NOTICE.
- 8. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT NO.PG5641-1 PREPARED BY PATERSON GROUP.
- FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
- 10. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY RLA ARCHITECTURE.
- 11. FOR NOISE ATTENUATION PLAN REFER TO N-1 PREPARED BY IBI GROUP.
- 12. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES
- 13. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- 14. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
  15. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE
- COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTRAL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISH OR UNTIL THE START OF A SUBSEQUENT PHASE.
- CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE SHOULD THE MAXIMUM OPSD TRENCH WIDTH BE EXCEEDED.
- 18. ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.

807.030, OR HIGHER

Top 88.787

- 19. SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
- 20. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS; -WATERMAINS TO BE PVC DR18
- -SANITARY SEWER TO BE PVC DR35
  -PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE
  -STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35
  -STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPSD 807.010 OR
- 21. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 22. ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 23. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.24. ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES
- WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.

  25. ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
- 26. ALL LEADS FOR STREET CATCHBASIN'S AND CURB INLET CATCHBASIN'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- 27. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO 3.0N MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- 28. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- 29. ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A CONTROLLED SETTLEMENT JOINT.
- 30. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
- 31. THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING PCSWMM AND THE 100 YEAR CHICAGO STORM EVENT (C3H10010).
- 32. THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INPSECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 33. TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CCTV INSPECTION AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- 34. ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
- 35. ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
- 36. UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A CONFORMANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.

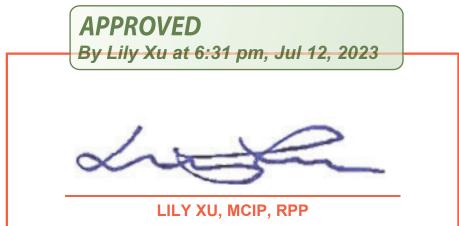
# ROADWAY STRUCTURE:

#### MAIN DRIVE AISLE/FIRE ROUTE :(690mm)

40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm - OPSS GRANULAR "A" CRUSHED STONE
450mm - OPSS GRANULAR "B" TYPE II

### PARKING AREAS :(540mm)

40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm - OPSS GRANULAR "A" CRUSHED STONE
300mm - OPSS GRANULAR "B" TYPE II



MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

CLARIDGE HOMES

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| ISSUES |                           |            |  |  |  |  |  |  |  |
|--------|---------------------------|------------|--|--|--|--|--|--|--|
| No.    | DESCRIPTION               | DATE       |  |  |  |  |  |  |  |
| 1      | ISSUED FOR CITY REVIEW    | 2021-12-15 |  |  |  |  |  |  |  |
| 2      | REVISED PER CITY COMMENTS | 2022-08-15 |  |  |  |  |  |  |  |
| 3      | REVISED PER CITY COMMENTS | 2022-12-16 |  |  |  |  |  |  |  |
| 4      | REVISED PER CITY COMMENTS | 2023-03-24 |  |  |  |  |  |  |  |

SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS

CONSULTANTS

SEAL





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PROJECT

ZENS - 4624 SPRATT

PROJECT NO:
135856

DRAWN BY: CHECKED BY:
D.D./S.G. A.Z.

PROJECT MGR: APPROVED BY:
R.M. R.M./D.Y.

SHEET TITLE

GENERAL NOTES, LEGEND AND CB DATA TABLE

SHEET NUMBER

C-01

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