GENERAL NOTES:

- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), AS AMENDED BY THE CITY OF OTTAWA.
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE
- ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTORS EXPENSE.
- RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE
- ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
- 8. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.

AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE DEVELOPER.

- THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
- THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVAL BY THE DIRECTOR OF ENGINEERING HAS BEEN OBTAINED.
- ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, SHALL BE INSTALLED WITH LASER AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
- 3. ALL PIPE / CULVERT / SECTION SIZES REFER TO INSIDE DIMENSIONS.
- 4. SHOULD DEEPLY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY.
- 5. STREET LIGHTING TO CITY OF OTTAWA STANDARDS.
- . ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.
- CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSS 410 AND OPSS 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.
- 8. THE CLAY SEALS TO BE INSTALLED AS PER CITY STANDARD DRAWING NO. S8. THE SEALS SHOULD BE AT LEAST 1.5m LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. GENERALLY, THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING, SUBBEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTABLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm THICK LOOSE LAYERS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT STRATEGIC LOCATIONS AT NO MORE THAN 60m INTERVALS IN THE SERVICE TRENCHES.
-). AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS, THE CLAY SEAL IS ONLY REQUIRED WITHIN THE GRANULAR MATERIAL SURROUNDING THE PIPE. THE EXCAVATED SILTY CLAY WILL BE REUSED AS TRENCH BACKFILL WHICH WILL ACT AS A CLAY SEAL
- 20. AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATIONS, AT LEAST 150mm OF OPSS GRANULAR A SHOULD BE USED FOR PIPE BEDDING FOR SEWER AND WATER PIPES. WHERE THE INVERT OF THE EXCAVATION IS BELOW THE STIFF CRUST AND INTO THE GREY SILTY CLAY, THE THICKNESS OF THE BEDDING SHOULD BE INCREASED TO 300mm. THE BEDDING SHOULD EXTEND TO THE SPRING LINE OF THE PIPE. COVER MATERIAL, FROM THE SPRING LINE TO AT LEAST 300mm ABOVE THE OBVERT OF THE PIPE SHOULD CONSIST OF OPSS GRANULAR A. THE BEDDING AND COVER MATERIALS SHOULD BE PLACED IN MAXIMUM 300mm THICK LIFTS COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S SPMDD.
- 21. FOR HOUSE CONNECTIONS INSTALLED UNDER STEPS AND PORCHES, SLEEVE SHALL BE USED.
- 22. ALL SERVICES UNDER GARBAGE PAD TO BE SLEEVED PER GEOTECH MEMO PG6152-MEMO.05

STORM NOTES:

- ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT).
- 2. ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S6 AND S7 CLASS 'B' UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
- 4. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50mm x 100mm WOODEN MARKER EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED GREEN. HOUSE CONNECTIONS SHALL BE 2.0 m MIN. BELOW FINISHED GRADE AT STREET LINE WHERE POSSIBLE. SINGLE CONNECTIONS SHALL BE 100mm DIA..
- 5. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24.1 AND S25.
- 6. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
- 7. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
- 8. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED WITH A 300mm SUMP. FOR STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD
- 9. SINGLE AND DOUBLE CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1. AND OPSD 705.020, RESPECTIVELY. FRAMES AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S19 FOR REAR LOT CATCH BASINS AND STREET CATCH BASINS.
- O. CURB INLET TYPE CATCH BASIN (CICB) SHALL BE USED IN SPECIFIC LOCATIONS IN ACCORDANCE WITH CITY OF OTTAWA STD. S3. FRAME AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S22 AND S23, UNLESS OTHERWISE NOTED.
- SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200mm DIA (MIN.), AT 1.0% SLOPE (MIN.), UNLESS OTHERWISE NOTED. WHERE REAR LOT CATCHBASINS CONNECT TO STREET CATCHBASINS, SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 250mm DIA (MIN.), AT 1.0% SLOPE (MIN.), UNLESS OTHERWISE NOTED. CB LEAD OUT INVERT TO BE SET 1.38m BELOW TOP OF GRATE ELEVATION UNLESS OTHERWISE
- 2. ALL STREET CATCHBASINS/CATCHBASIN MANHOLES SHALL HAVE 1200mm SUMPS, AND ALL REAR YARD CATCHBASINS (OPSD 705.010) SHALL HAVE 300mm SUMPS UNLESS OTHERWISE NOTED. REAR YARD LANDSCAPE CATCHBASINS TO BE SUMPLESS.
- 13. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.
- 4. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT THEIR OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
- 5. THE MINIMUM DIAMETER FOR REAR LOT PERFORATED PIPE IS 250mm, REFER TO CITY STD. S29 FOR DETAIL, UNLESS OTHERWISE NOTED.
- 6. FOR TWO OR MORE REAR LOT CATCH BASINS CONNECTED IN SERIES, THE LEAD FROM THE LAST REAR LOT CB TO THE STORM SEWER SHALL BE SOLID PIPE.
- $au_{ extsf{7}}$ ALL STORM SEWERS WITH LESS THAN 2.0m COVER TO BE INSULATED PER CITY STANDARDS. SEE DWG 1 FOR DETAIL AND MINIMUM THICKNESS RELATIVE TO PROVIDED COVER.

SANITARY NOTES:

- 1. ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE CITY
- 2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
- 3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT
- 4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND MARKED WITH A 50mm x 100mm WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0 m ABOVE GRADE PAINTED RED. HOUSE CONNECTIONS SHALL BE 2.75m BELOW FINISHED GRADE AT STREET LINE WHERE POSSIBLE. SINGLE CONNECTIONS SHALL BE 135mm DIA..
- 5. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25.
- 6. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02.
- 7. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01. 8. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
- 9. FOR SANITARY MANHOLES, DEPENDING ON THE ELEVATION OF THE GROUNDWATER TABLE, AND SUBJECT TO THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL CONSULTANT, CRETEX SEALS, OR A SIMILAR PRODUCT, SHALL BE INSTALLED IN THE FIRST PRE-CAST MANHOLE SECTION TO JUST BELOW THE MANHOLE FRAME TO
- 10. ENHANCED LEAK TESTING WILL BE REQUIRED FOR ALL SANITARY MANHOLES
- 11. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25, EXCEPT FOR WHERE IN PONDING AREAS, WHERE WATERTIGHT FRAME AND COVERS SHALL BE EAST JORDAN CAMPRESSION 41420049W01 AS PER CITY OF OTTAWA MS-22.15 (OR APPROVED EQUIVALENT)
- 12. THE OWNER AGREES TO DESIGN AND CONSTRUCT ALL SEWER LINES AND MANHOLES LOCATED, PARTIALLY OR ENTIRELY, WITHIN 100 M OF ANY MUNICIPAL WELL, TO BE CAPABLE OF WITHSTANDING PRESSURE TESTING TO 50 PSI PRIOR TO ISSUANCE OF BUILDING PERMITS, ALL AT THE COST TO THE OWNER. AS PART OF THE DESIGN SUBMISSION DISCUSSION OF HOW TESTING IS TO BE PERFORMED SHALL BE INCLUDED. THE PROPOSED TESTING WITHOUT THE SERVICE LATERAL SHOULD BE CONSIDERED.

- 1. ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE CITY OF
- 2. ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18.
- 3. WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL
- 4. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
- 5. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STD. W26 UNLESS OTHERWISE SPECIFIED. SINGLE SERVICES SHALL BE 19mm DIA. PEX. WATER SERVICES SHALL BE MARKED WITH A "50mm x 100mm", EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED BLUE. CURB STOPS SHALL BE INSTALLED AT THE PROPERTY LINE.
- 6. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
- 7. CONTRACTOR TO SUPPLY HYDRANT EXTENSION TO ADJUST THE LENGTH OF HYDRANT BARREL AS REQUIRED. 8. FIRE HYDRANTS SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W19, AND LOCATED AS PER CITY STD.
- 9. VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W24.
- 10. 50mm DIAMETER WATERMAINS SHALL BE TYPE 'K' COPPER TUBING. WATERMAIN INSTALLATION IN CUL-DE-SAC TO BE INSTALLED AS PER CITY OF OTTAWA STD. W37.
- 11. WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS AS PER CITY OF OTTAWA STD. W25.5 AND W25.6.
- 12. THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER CITY OF OTTAWA STD. W25.3 AND W25.4.
- 13. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
- 14. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHOULD BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAIN COVER IS LESS THAN 2.4m.
- 15. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE INSULATED AS PER CITY STD. W23.
- 16. AS PER MOE GUIDELINE. THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.50m. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTRED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE

ROADWORK NOTES:

- 1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB) AND SC1.3 (MOUNTABLE CURB). PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS.
- 3. ROAD SUBDRAINS SHALL BE REFERENCE TO R1, AS SUGGESTED IN RG4683-2, SUBDRAIN INVERTS TO BE APPROXIMATELY 300mm BELOW SUBGRADE LEVEL
- 4. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC3 AND SC1.4.
- 5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010. OPSS 310.
- 6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVFMENT AREA. 7. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
- 8. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
- 9. SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300 mm LIFTS.
- 10. PEDESTRIAN CURB RAMP WITH BOULEVARD SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC7.
- 11. PAVEMENT DESIGN TYPE ACCESS LANES & HEAVY DUTY TRUCK PARKING
- 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE - 150mm OPSS GRANULAR A CRUSHED STONE
- 450mm OPSS GRANULAR B TYPE II SUBGRADE

DRIVEWAYS AND PARKING AREAS

- 50mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm OPSS GRANULAR A CRUSHED STONE
- 300mm GRANULAR B TYPE II SUBGRADE

- 1. A FLAT AREA HAVING A WIDTH OF 0.6m SHALL BE PROVIDED AT THE BOUNDARY LIMITS ADJACENT DEVELOPED PROPERTIES IN ORDER THAT THE EXISTING BOUNDARY ELEVATIONS SHALL BE MAINTAINED. 2. ALL ROOF DOWNSPOUTS SHALL DISCHARGE TO THE GROUND ONTO SPLASH PADS AND SHALL NOT BE CONNECTED TO THE STORM SEWER, OR THE BUILDING FOUNDATION DRAIN.
- REGULATIONS FOR CONSTRUCTION PROJECTS." THE GENERAL CONTRACTOR SHALL BE DESIGNATED AS THE CONSTRUCTOR AS DEFINED IN THE ACT.

3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND

- 4. PRIOR TO THE COMMENCEMENT OF THE SITE GRADING WORKS, ALL SILTATION CONTROL DEVICES SHALL BE INSTALLED AND OPERATIONAL. THE CONTRACTOR SHALL MAINTAIN ALL WORKS UNTIL SERVICING CONSTRUCTION IS COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- 5. ALL SWALES SHALL BE 0.15m DEEP WITH 3:1 SIDE SLOPES UNLESS OTHERWISE INDICATED. THE MINIMUM LONGITUDINAL SLOPE IS 1% AND 1.5% WITH INSTALLATION OF SUBDRAIN OR WITHOUT, RESPECTIVELY.
- 6. TOP OF GRATE (T/G) ELEVATIONS FOR ALL STREET CATCHBASINS SHOWN ON PLANS, REFER TO THE ELEVATIONS AT GUTTER OR EDGE OF PAVEMENT, WHERE APPLICABLE.

EROSION AND SEDIMENT CONTROL NOTES:

CONSIST OF 0.3m OF 50mm CLEAR STONE.

- 1. PRIOR TO TOPSOIL STRIPPING, EARTHWORKS, OR UNDERGROUND CONSTRUCTION, EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. 2. SEDIMENT CONTROL FENCE SHALL BE CLEANED AND MAINTAINED IN GOOD REPAIR BY CONTRACTOR.
- 3. SEDIMENT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND REVEGETATED.
- 4. ACCUMULATED SEDIMENT TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF SEDIMENT CONTROL FENCE. 5. CONTRACTOR TO INSTALL AND MAINTAIN MUD MAT AT CONSTRUCTION ACCESS IN ORDER TO PREVENT MUD TRACKING ONTO ADJACENT ROADS. MUD MAT TO BE MINIMUM 30m LONG AND 10.0m WIDE AND SHALL

GEOTECHNICAL REPORT/MEMO:

- GEOTECHNICAL INVESTIGATION REPORT NO. PG6152-1, REV 1, DATED APRIL 1, 2022, PREPARED BY PATERSON GROUF
- GEOTECHNICAL REVIEW & RECOMMENDATION PROPOSED FOUNDATIONS ADJACENT TO UNDERGROUND STORMWATER CHAMBERS NO .PG6152-MEMO.04 PREPARED BY PATERSON GROUP INC.
- Geotechnical Review & Recommendation Proposed EarthBin Construction and Service Crossing NO. PG6152—MEMO.05 PREPARED BY PATERSON GROUP INC.
- INFORMATION PRESENTED ON THESE DRAWINGS HAS BEEN INTERPOLATED FROM THE GEOTECHNICAL REPORTS AND ACCURACY IS NOT CUARANTEED, CONTRACTORS ARE ADVISED TO READ THE GEOTECHNICAL REPORTS AND ASSUME THEIR OWN CONCLUSIONS.
- . ALL CONSTRUCTION EQUIPMENT SHALL BE REFUELED, MAINTAINED AND STORED NO LESS THAN 30 METERS FROM THE WATERCOURSES, STREAMS, CREEKS, WOODLOTS AND ANY ENVIRONMENTALLY SENSITIVE AREAS, OR AS OTHERWISE SPECIFIED.
- 2. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS, OR OTHER SUCH MATERIALS OR
- 3. IN THE EVENT OF A LEAK, DISCHARGE OR SPILL OF A POLLUTANT, DELETERIOUS MATERIAL OR OTHER SUCH MATERIAL OR SUBSTANCE WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT, THE CONTRACTOR SHALL:

SUBSTANCES WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT.

- a). IMMEDIATELY NOTIFY THE APPROPRIATE FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT MINISTRIES, DEPARTMENTS, AGENCIES AND AUTHORITIES OF THE INCIDENT IN ACCORDANCE WITH ALL CURRENT LAWS,
- LEGISLATION, ACTS, BY-LAWS, PERMITS, APPROVALS, ETC. b). TAKE IMMEDIATE MEASURES TO CONTAIN THE MATERIAL OR SUBSTANCE, AND TO TAKE SUCH MEASURES AS THEY DEEM APPROPRIATE TO MITIGATE AGAINST THE ANY ADVERSE IMPACTS TO THE NATURAL FNVIRONMENT
- c). THE CONTRACT SHALL RESTORE THE AFFECTED AREA TO ORIGINAL CONDITION OR BETTER, ALL TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.

LEGEND

45° BEND —

LATERAL —

VALVE & VC ---

VALVE & VB ——

22.5° BEND ——

11.25° BEND

REDUCER ——

SANITARY

STORM

WATER BOX

MAINTENANCE HOLE

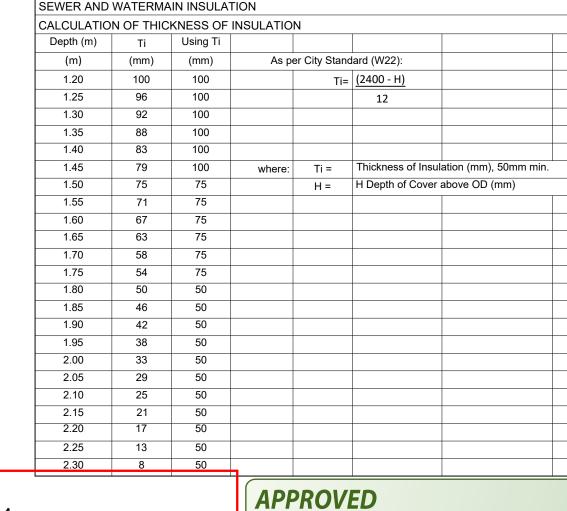
EXISTING SANITARY

MAINTENANCE HOLE

CROSS

WATERMAIN

- 1. ALL UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETC) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR UTILITY PEDESTALS WITHIN THE RIGHT- OF-WAY".
- MAINTAIN MINIMUM CLEARANCES BETWEEN DUCTS/GAS MAINS AND MUNICIPAL INFRASTRUCTURE (I.E. PATCHBASINS, WATER VALVES, MANHOLES, ETC.). 2. IF THERE ARE ANY UTILITIES BEING INSTALLED PARALLEL WITHIN THE EXISTING PUBLIC RIGHT OF WAY OR A ROAD MODIFICATION WITHIN THE EXISTING RIGHT OF WAY, THEN A SEPARATE MUNICIPAL CONSENT UTILITY (IRCULATION WILL BE REQUIRED.
- 3. THE INSTALLATION OF ANY SURFACE & SUB-SURFACE STRUCTURES (EG. RETAINING WALL, FOOTING, FOUNDATION, COMMUNITY SIGN, ART WORK, ETC.) ARE SUBJECT TO REVIEW FOR ENCROACHMENT PERMITTING. CONTACT THE PUBLIC REALM PERMITS & AGREEMENTS UNIT AT ROWADMIN@OTTAWA.CA FOR MORE INFORMATION.
- 4. STANDARD ROW CROSS SECTIONS ARE TO BE USED TO INDICATE MINIMUM CLEARANCES THAT ARE INCORPORATED INTO THE DESIGN OF ANY NEW DEVELOPMENTS INVOLVING NEW AND EXISTING STREETS. ANY VARIATIONS TO THE STANDARD ROW CROSS SECTIONS ARE SUBJECT TO THE INFRASTRUCTURE SERVICES DEVIATION PROCESS. CONTACT THE STANDARDS UNIT AT STANDARDSSECTIONS@OTTAWA.CA FOR MORE
- . THE INSTALLATION OF ANY STRUCTURE (INCLUDING SHORING/TIE—BACKS), STRUCTURE FOOTING, GEONEMBRANE OR PERFORATED PIPE ENCROACHING INTO THE EXISTING ROW IS SUBJECT TO ADDITIONAL REVIEW, MUNICIPAL CONSENT AUTHORIZATION, AND/OR OTHER APPROVALS AS MAY BE DEEMED NECESSARY UPON REVIEW OF SUCH-REQUEST. FOR MORE INFORMATION, VISIT "UTILITIES APPROVALS" AT CONSTRUCTION IN THE RIGHT-OF-WAY.

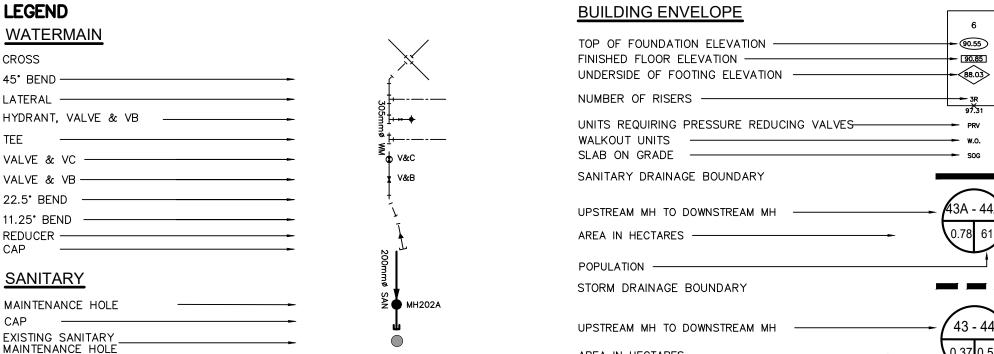


By sevignyjo at 12:30 pm, Sep 11, 2025

JOHN SEVIGNY C.E.T DIAMETER (mm)

CITY OF OTTAWA

MANAGER (A), DEVELOPMENT REVIEW EAST 900 OR LESS PLANNING, DEVELOPMENT & BUILDING SERVICES VER \$0 DEPARTMENT, CITY OF OTTAWA



RUNOFF COEFFICIENT CATCHBASIN & LEAD $oldsymbol{\vdash} -----$ MH202 PONDING AREA CURB INLET CATCHBASIN & LEAD _____ PONDING AREA ID CATCHBASIN/ MAINTENANCE HOLE ----INTERCONNECTED CATCH BASIN & LEADS ------|=*===-*-PROPOSED SILT FENCE PROPOSED SNOW FENCE SINGLE SERVICE LOCATION (ST, SAN & WM) TEE CATCHBASIN

ШШ

PERFORATED PIPE ELBOW CATCHBASIN ——————— EXISTING STORM MAINTENANCE HOLE 600¢ CSP DITCH AND CULVERT CONCRETE SIDEWALK 1.8m CONC SIDEWALK TACTILE WALKING SURFACE INDICATOR (TYP.) (AS PER CITY OF OTTAWA STD. SC6) CURB & DEPRESSED CURB BARRIER MOUNTABLE ASPHALT SIDEWALK 1.8m ASPH. SIDEWALK CHAINLINK FENCE (1.5m UNLESS OTHERWISE NOTED) NOISE BARRIER WOODEN POST AND RAIL FENCE WOOD PRIVACY BARRIER POST AND RAIL FENCE <u>-</u>\(----\(\) ----\(\) -----\(\) PHASING LIMITS ------PROPERTY BOUNDARY

BOREHOLE (BH) TEST PIT (TP) AS PER AUGER HOLE (AH) GEOTECHNICAL MONITORING WELL LOCATION REPORT CONCEPTUAL WELL LOCATION <u>___91.00___</u> CONTOUR PROPOSED ELEVATION EXISTING ELEVATION T/G 92.55 TOP OF GRATE ELEVATION PROPOSED TERRACING 2.0% SURFACE SLOPE FLOW DIRECTION MAJOR OVERLAND FLOW DIRECTION

TACTILE WALKING SURFACE INDICATOR

(AS PER CITY OF OTTAWA STD. SC6)

EARTHBIN (DWG. 3 FOR DETAILS)

BIKE RACK

43A - 44A 43 - 44 0.37 0.51 AREA IN HECTARES PA-1 PROPOSED ROCK FLOW CHECK DAM PROPOSED STRAW BALE BARRIER PROPOSED STRAW BALE BARRIER WITH FILTER CLOTH FILTER CLOTH FOR EXISTING STRUCTURE PROPOSED RIP RAP TREATMENT JOINT UTILITY TRENCH (HYDRO, BELL, CABLE) ——н,в,с—— DENOTES NUMBER OF UTILITY DUCTS 2H,1B,1C CONCRETE ENCASED DUCT STREET LIGHT CABLE ----- SL -----NATURAL GAS LINE ____ G ____ SERVICE ENTRANCE HYDRO, BELL, CABLE END WALL BOX CABLE PEDESTAL CABLE GRADE LEVEL BOX BELL PEDESTAL

 Θ

BELL GRADE LEVEL BOX FOR SPLICING

BUS STOP LOCATION c/w ASPHALT BOULEVARD

LOTS EQUIPPED WITH SUMP PUMP

BELL CENTRAL SPLITTING POINT

HYDRO TRANSFORMER

HYDRO POLE

HYDRO MAINTENANCE HOLE

HYDRO POLE c/w GUY WIRE

STREET LIGHT DISCONNECT

STREET LIGHT STANDARD

COMMUNITY MAILBOX

 GRANULAR BACKFILL CLEARANCE CLEAR SAND RIGID INSULATION CONSISTING OF EITHER DOW CHEMICAL HIGH-LOAD 40 (HI 40) OF OWENS CORING CANADA FOAMULAR 400 XPS-TYPE RIGID INSULATION OR APPROVED EQUIVALENT BOX INSULATION AS PER GEOTECHNICAL CONSULTANT'S RECOMMANDATION STORM AND SANITARY SEWER/SERVICES -BEDDING AS PER CITY OF OTTAWA STD. S6

> THERMAL INSULATION FOR STORM/SANITARY SERVICES IN SHALLOW TRENCHES

AND S7, CLASS B

LSEE NOTE 2

NOT FOR CONSTRUCTION

TOPOGRAPHIC INFORMATION TOPOGRAPHIC INFORMATION PROVIDED BY J.D. BARNES LIMITED ROJECT No. 16-10-116-00 SURVEYS DATED NOVEMBER 30 20 PROJECT No. 16-10-116-00_PH2. SURVEYS DATED SEPTEMBER 27, 2019. PROJECT No. 22-10-030-01. SURVEYS DATED JUNE 21. 2023.

SITE PLAN INFORMATION THE PLAN PROVIDED BY Q4 ARCHITECTS, DATED ON JULY 9, 2025. **ELEVATION NOTE** ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM SITE BENCHMARK NCC CONTROL POINT 001196530229.

S.L.M | 2025-08-26 | 8th SUBMISSION S.L.M 2025-08-14 7th SUBMISSION S.L.M | 2025-07-15 | 6th SUBMISSION S.L.M |2025-06-10 | 5th SUBMISSION S.L.M 2025-05-28 4th SUBMISSION S.L.M | 2025-05-13 | 3rd SUBMISSION S.L.M 2025-04-23 2nd SUBMISSION S.L.M 2025-04-02 DRAFT - ISSUED FOR ZONING BY-LAW AMENDMENT



ELEVATION = 86.12 m

PROJECT No. 24-1403

CAIVAN (ORLEANS VILLAGE 2) LTD.

ORLEANS VILLAGE PHASE 4

Tel. (613) 836-0856 Fax. (613) 836-7183 www.DSEL.ca © DSE

120 Iber Road, Unit 103

Stittsville, ON K2S 1E9

DRAWN BY: C.P.B. CHECKED BY: S.L.M. SHEET NO. DESIGNED BY: C.P.B. CHECKED BY: S.L.M. OF N.T.S. DATE: AUGUST 2024

GENERAL NOTES