

5-Yr

105

99

60

59

60

86

74

74

122

0.18

0.14

Total 7.98

1.24

0.23

0.17

1.76

10.92

0.5

0.4

2.2

12.6

Scale:

**CITY OF OTTAWA** WILLOWS EY MAP LAUREL ST. -(NOT TO SCALE) **ANDREW MCCREIGHT** BALSAMS SITE LOCATION -MANAGER, DEVELOPMENT REVIEW CENTRAL **PLANNING, DEVELOPMENT & BUILDING SERVICES DEVELOPMENT DEPARTMENT, CITY OF OTTAWA APPROVED** -0 By Andrew McCreight at 2:10 pm, Aug 14, 2024 <u>EGEND</u> 1. ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND EXISTING OVERHEAD UTILITY —— OHU —— OHU —— OHU —— 2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR EXISTING WATERMAIN \_\_\_\_\_ 3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING UNLESS 4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE.. ----- PROPOSED STORM SEWER 5. SEWER BEDDING AS PER OPSD 802.010. GRANULAR 'A' BEDDING TO BE INCREASED TO 300MM WHERE SEWERS ARE ----- PROPOSED SANITARY SEWER ROW SAWCUT AND REINSTATEMENT LIMIT 6. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021. SANITARY MANHOLE FRAME AND COVERS PER R10 DETAIL PROPOSED VALVE AND VALVE BOX V&B 7. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND PROPOSED SANITARY MAINTENANCE HOLE  $\bigcirc$ 8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING PROPOSED STORM MAINTENANCE HOLE SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED. BM SITE BENCHMARK EXISTING UTILITY POLE 10. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. EXISTING LIGHT STANDARD O LS 11. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF PROPOSED BUILDING ENTRANCE 12. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE RM PROPOSED REMOTE WATER METER  $\checkmark$ PROPOSED SIAMESE CONNECTION 13. MINIMUM SOIL COVER TO BE 2.5m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER OPSD 514.010 (M) PROPOSED WATER METER PROPOSED CAP 1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND 5. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE RE-ISSUED PER CITY COMMENTS JUN 2024 A.D. B. 6. MINIMUM SOIL COVER TO BE 2.0M TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER OPSD 514.010 RE-ISSUED PER CITY COMMENTS FEB, 2024 Y.A. B OCT, 2023 Y.A. B. RE-ISSUED PER CITY COMMENTS 8. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED, 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 HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE ISSUED FOR SITE PLAN CONTROL APPORVAL APR, 2023 Y.A. Y.A FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH. REVISIONS Date By Ap 9. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED. 1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS B. M. THOMAS 2. NO WORK SHALL COMMENCE UNLESS A MUNICIPAL WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR. 2024-06-14 3. WATERMAINS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH OPSD 802.010, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER. **exp** Services Inc. t: +1.613.688.1899 | f: +1.613.225.7330 2650 Queensview Drive, Unit 100 Ottawa, ON K2B 8H6 Canada 8. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS. www.exp.com 9. WATER METERS TO BE INSTALLED AS PER CITY OF OTTAWA STD. W32 FOR WATER SERVICES OR AS DESCRIBED IN THE 10. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR 11. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE 12. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25M FOR BUILDINGS • EARTH & ENVIRONMENT • ENERGY • CROSSING OVER THE SEWER, AS PER OPSD 1006.010. FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.50M AS PER OPSD 1006.010. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY • THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS Owner/Client: 224 ON PRESTON INC. Max Available ocation: 224 PRESTON STREET Storage m3 100-Yr 100-Yr 5-Yr OTTAWA, ONTARIO 140 3.63 4.84 5.2 135 2.56 3.9 3.48 112 0.23 0.43 0.6

esigned By: Y.A. Drawn By: B.P. 1:100 Date: APR, 2023 Project No.: OTT-22019695-AO

SITE SERVICING PLAN

C100

Checked By: C.C

Drawing No.