

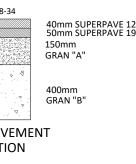
- DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY,
- SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) FARLEY, SMITH & DENIS SURVEYING LTD DRAWING COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL
- RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN
- SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY
- CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95%

- WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A INSULATION IS REQUIRED AS PER CITY STANDARDS (IF
- ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION
- STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR
- COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
- PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. DESIGNATED MUNICIPAL WATER OPERATOR AND THE
- SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS. 11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY
- 12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
- 13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR
- 14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY. 15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS
- ARE SUBJECT TO THE INDIVIDUAL AGENCY: ELECTRICAL SERVICE - HYDRO ONE,
  GAS SERVICE - ENBRIDGE,
  TELEPHONE SERVICE - BELL CANADA, • TELEVISION SERVICE - ROGERS.
- 16. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND THE
- 17. CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE OLLOWED DURING CONSTRUCTION
- 18. ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS OTHERWISE SPECIFIED.
- 19. THIS PLAN MUST BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION COMPLETED BY PATERSON GROUP, DATED OCTOBER 19, 2020.

### **SEWER NOTES:**

- 1. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95%
- STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
- 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1. 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE
- WITH GRANULAR "A" OR GRANULAR "B" TYPE 1. 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING,
- TRENCH BACKFILL (FROM PAVEMENT SUBGRADE T 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
- 3. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
- 4. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
- 5. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
- 6. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.
- 7. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"X8' LONG MARKER.
- 8. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- 9. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.



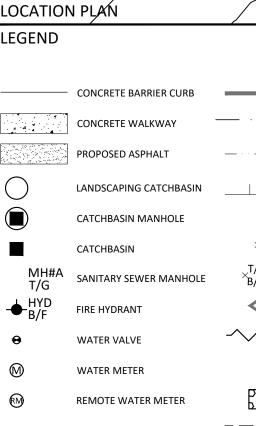
T GRADE PG58-34 50mm SUPERPAVE 12 GRAN "A 300mm GRAN "B' LIGHT DUTY PAVEMENT CROSS-SECTION

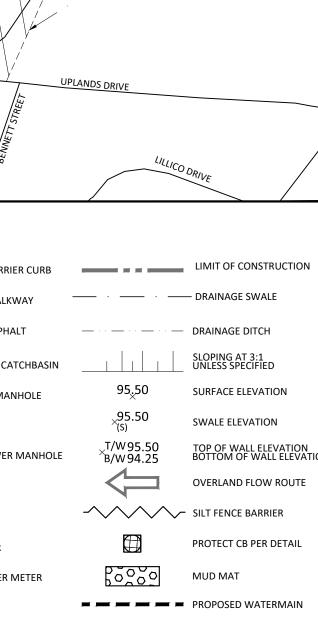
ASPHALT CROSS-SECTIONS TO CONFORM TO GEOTECHNICAL REPORT COMPLETED BY PATERSON, DATED OCTOBER 19, 2020

CROSSING CONFLICT TABLE				
DESCRIPTION	SEPARATION			
150mmØ SAN SERVICE INV 97.81 200mmØ WTR MAIN TOP 97.29	0.52			
300mmØ STM SERVICE INV 97.78 200mmØ SAN MAIN TOP 97.39	0.39			
300mmØ STM SERVICE INV 97.81 200mmØ WTR MAIN TOP 97.31	0.50			
250mmØ STM SERVICE INV 97.77 200mmØ WTR MAIN TOP 97.27	0.50			
EX. STOŔM SERVICE INV ± 97.55 200mmØ WTR MAIN TOP ±96.95	0.60			
EX. STORM SERVICE INV ± 97.45 200mmØ WTR MAIN TOP ±96.95	0.50			

STM STRUCTURE TABLE				
RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION	
99.47	E98.730	SW98.710	RELOCATED CB	
99.86	NE97.670			
99.92		W98.916	PER CITY STANDARD S31	
99.80	E98.796	NW98.776	PER CITY STANDARD S30	
99.92	SE98.740	NW98.717	PER CITY STANDARD S30	
	•	•		

SAN STRUCTURE TABLE				
VERT IN	INVERT OUT	DESCRIPTION		
597.940	SW97.895	STRUC: OPSD 701.010 FRAME: CITY S25 COVER: CITY S24		
	VERT IN	VERT IN INVERT OUT		





TWYFORD STREL

-SUBJECT SITE



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## ISSUED FOR MUNICIPAL REVIEW MAY 12, 2023 FEB. 28, 2023 ISSUED FOR 66%

Revision Check and verify all dimensions

before proceeding with the work SCALE 1:150

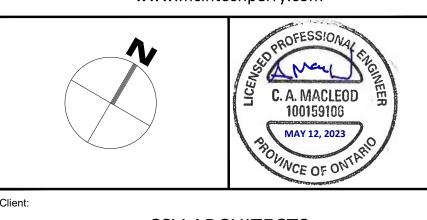
Date

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Do not scale drawings

## MCINTOSH PERRY

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CSV ARCHITECTS 190 O'CONNOR STREET, SUITE 100 OTTAWA, ON K2P 2R3

Project

### **RESIDENTIAL DEVELOPMENT 1 FINCH PRIVATE**

### Drawing Title: LOT GRADING, DRAINAGE, & SERVICING PLAN roject Number: 1:150

### Scale CCO-23-1408 Drawn By FV Checked By: rawing Number: AM C101 Designed By: NV

#XXXXX

