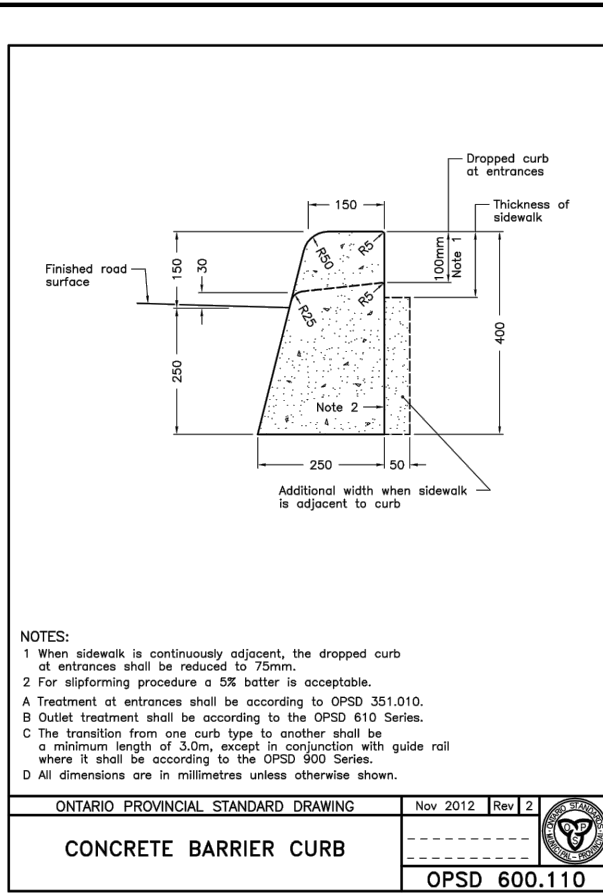
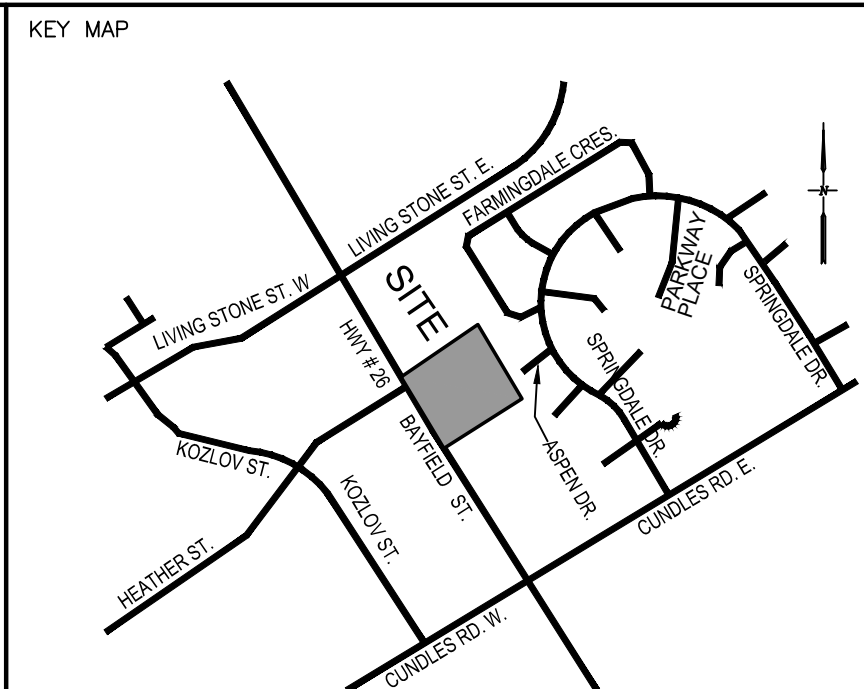




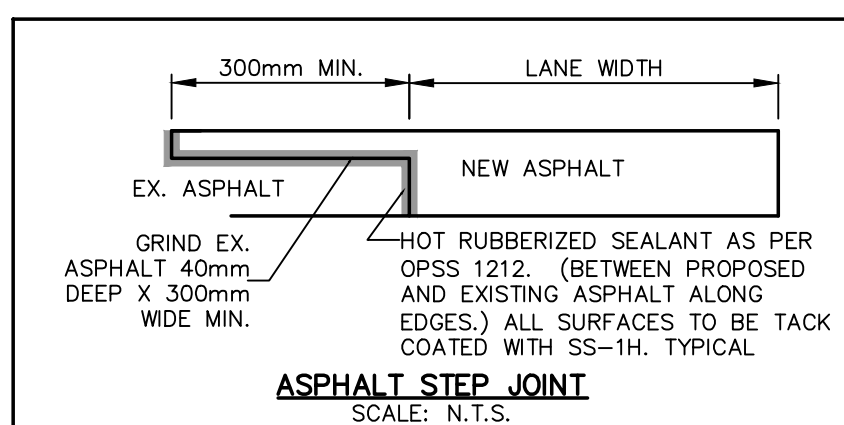
SPMDD DENOTES STANDARD PROCTOR MAXIMUM DRY DENSITY ASTM-D698



1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. SURVEY PREPARED BY: RUDY MACK SURVEYING LTD. O.L.S.
DATED: MARCH 9, 2021
3. DO NOT SCALE DRAWINGS.
4. REPORT ALL ERRORS, OMISSIONS OR DISCREPANCIES TO URBAN WATERSHED GROUP LIMITED IMMEDIATELY UPON DISCOVERY.
5. THE LATEST REVISIONS, DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
6. THE DRAWINGS ARE THE PROPERTY OF URBAN WATERSHED GROUP LIMITED AND MUST BE RETURNED ON COMPLETION OF THE PROJECT. ANY UNAUTHORIZED USE OF THIS PLAN IS PROHIBITED.

1. THE NOTES SHALL APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ELSEWHERE ON THIS OR OTHER PLANS AND/OR ON SPECIFIC DETAILS.
2. THE STANDARD DRAWINGS OF CITY OF BARRIE, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
3. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS.
4. TRAFFIC CONTROLS TO CONFORM TO THE LATEST REVISION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ONTARIO TRAFFIC MANUAL TEMPORARY CONDITIONS (BOOK 7).
5. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT COPIES OF ALL RELEVANT STANDARDS, STANDARD DRAWINGS AND SPECIFICATIONS REQUIRED FOR THIS CONTRACT.
6. ALL PROPOSED CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. ALL TRENCING TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
7. ALL DIMENSIONS ARE IN METRES AND ALL DIAMETERS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED ON DRAWINGS.
8. DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
9. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. IF THE CONTRACTOR WISHES TO OBTAIN ADDITIONAL INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER AND ENGINEER DISCLAIM ALL LIABILITY AND RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
10. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO CONSTRUCTION. ANY RELOCATION OF UTILITIES REQUIRED FOR THE DEVELOPMENT OF THE SUBJECT LANDS IS TO BE UNDERTAKEN AT THE OWNER'S EXPENSE.
11. THE CONTRACTOR SHALL OBTAIN A ROAD OCCUPANCY PERMIT FROM THE CITY OF BARRIE PRIOR TO CARRY OUT THE WORKS IN THE BOULEVARD / ROW.

1. ALL SITE GRADING WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL DESIGN STANDARDS AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. ALL SITE GRADING SHALL BE COMPLETED IN ACCORDANCE WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
3. ALL SURFACE DRAINAGE WILL BE SELF CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION SO AS NOT TO HAVE ADVERSE OR NEGATIVE IMPACTS TO SURROUNDING LANDS OR NATURAL ENVIRONMENT.
4. ALL FILL AREAS SHALL BE GRADED AND COMPACTED TO 98% STD. PROCTOR DENSITY, FREE OF DEPRESSIONS.
5. MINIMUM GRASSED AREA GRADE 2.0% (UNLESS OTHERWISE NOTED).
6. ASPHALT AND CONCRETE SURFACES SHALL BE MINIMUM 1.0% AND MAXIMUM 7.0% (UNLESS OTHERWISE NOTED).
7. GRASSED SLOPE TO BE MADE UP WITH SLOPES NOT STEEPER THAN 3:1 (H:V).
8. SWALES SHALL BE MINIMUM 0.1m DEEP WITH MINIMUM 1.0% AND MAXIMUM 6.0% LONGITUDINAL SLOPE AND HAVE A MAXIMUM SIDE SLOPE OF 3:1 (H:V).
9. ALL GRADED AREAS TO BE RESTORED WITH 150mm OF TOPSOIL AND SOD.
10. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED.
11. THE FIRE ACCESS ROUTE WILL BE DESIGNED TO SUPPORT A LOAD OF NOT LESS THAN 11,363 KG PER AXLE AND HAVE A CHANGE IN GRADIENT OF NOT MORE THAN 1 IN 12.5 OVER A MIN. DISTANCE OF 15.0m.
12. CONCRETE SIDEWALK AS PER OPSD 310.010 ON 100mm CRUSHED GRANULAR "A" AND SHALL BE 32MPA AT 28 DAYS WITH 7.0% AIR ENTRAINMENT. WELDED REIN. No. 15X150 PLACED ACROSS WIDTH OF ENTRANCE.
13. CONCRETE MUNICIPAL CURB TO BE AS PER OPSD 600.040 CURB AND GUTTER
14. CONCRETE CURB WITHIN THE PROPERTY TO BE AS PER OPSD 600.010 BARRIER CURB.
15. IMPORTED / EXPORTED FILL MATERIAL SHALL BE CHEMICAL TESTED TO DETERMINE SUITABILITY TO PROVINCIAL STANDARDS FOR INTENDED USE / DESTINATION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO PROPERLY DISPOSE OF UNSUITABLE OR CONTAMINATED MATERIALS.
16. A MINIMUM OF 1.50M CLEARANCE IS TO BE PROVIDED FROM THE LIMITS OF ALL SIDEWALKS AND DRIVEWAYS TO EXISTING UTILITY STRUCTURES WITHIN THE MUNICIPAL RIGHT OF WAY. IF THIS CLEARANCE IS NOT MAINTAINED THEY SHALL BE RELOCATED AT THE APPLICANT'S EXPENSE.
17. PROPOSED ELEVATIONS ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATIONS.
18. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO THEIR ORIGINAL CONDITION AND MATTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 150mm OF APPROVED TOPSOIL AND NURSERY SOD.
19. ALL AREAS DISTURBED THAT ARE OUTSIDE PROPOSED GRADING LIMITS ARE TO BE RESTORED TO THEIR ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED ACCORDING TO THE SOILS CONSULTANT'S RECOMMENDATIONS FOR BACKFILL AND COMPACTION

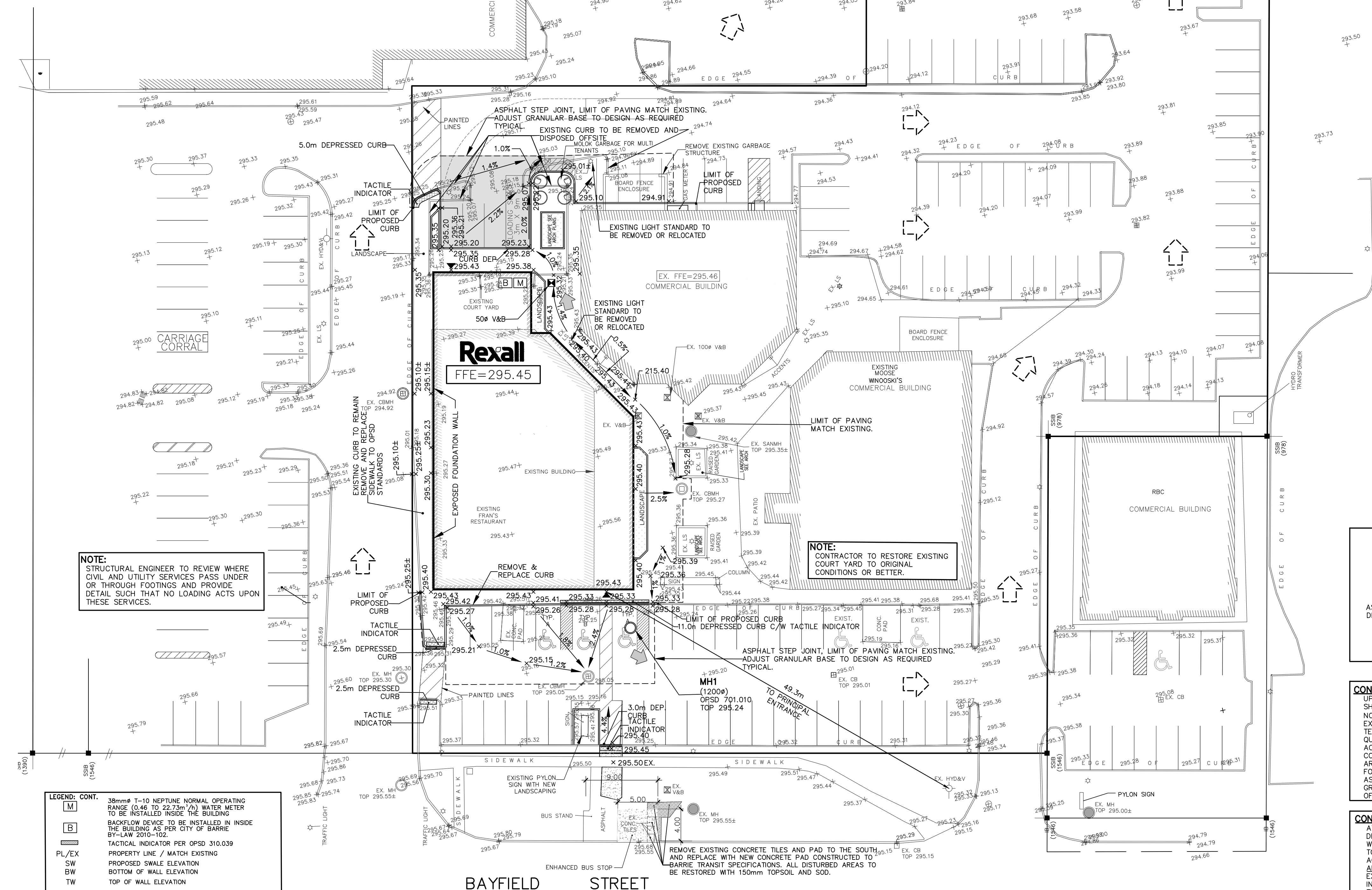


UPON COMPLETION OF THE SEWER INSPECTION THE CONTRACTOR SHALL COMPLETE TESTING AS REQUIRED WHICH WILL INCLUDE, BUT NOT BE LIMITED TO, CCTV, DEFLECTION, INFILTRATION / EXFILTRATION AND AIR TESTING. THE WATERMAIN SHALL ALSO BE TESTED FOR CORROSION AND DEFLECTION. ALL TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL AND ONTARIO BUILDING CODE STANDARDS. RESULTS OF ALL TESTING SHALL BE SUBMITTED TO THE ARCHITECT AND URBAN SERVICES DEPARTMENT GROUP IMMEDIATELY FOLLOWING THE TEST. THE CONTRACTOR SHALL ALSO SUBMIT AS-BUILT ELEVATIONS AND LOCATIONS OF THE SERVING AND SERVED WATERMANS IMMEDIATELY FOLLOWING CONSTRUCTION OF EACH STAGE OF WORK.

NOTE: ARCHITECT SHALL PROVIDE DETAIL TO WATERPROOF THE TOP OF FOUNDATION WALL WHERE THE DIFFERENCE IS LESS THAN 0.15m TO THE OUTSIDE GRADE.

ALL DRAWINGS IN THIS SET SHALL BE READ IN CONJUNCTION WITH EACH OTHER. DRAWINGS INCLUDE THE FOLLOWING:

1. SITE GRADING PLAN - DWG No. 21002- GR1
2. SITE SERVICING PLAN - DWG No. 21002- SS1
3. SITE EROSION & SEDIMENT CONTROL - DWG No. 21002- ESC1



2.	ISSUED FOR SITE PLAN APPROVAL		2021/06/07
1.	ISSUED FOR CLIENT REVIEW		2021/04/16
NO.	DESCRIPTION	BY	DATE
REVISIONS			

BENCHMARK:

ELEVATION:
ELEVATIONS ARE GEODETIC IN ORIGIN AND WERE DERIVED FROM OBSERVED REFERENCE POINTS (ORP) USING THE LEICA TARTNET NETWORK (2010 EPOCH) AND ARE REFERRED TO THE GVD28:1978 (HTV2.0) DATUM.

BEARING NOTE:
BEARING ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS, BY REAL TIME NETWORK (RTN) OBSERVATIONS, UTM ZONE 17, NAD83 (GRS83) (2010 EPOCH), FOR BEARING COMPARISONS, ROTATIONS OF 00°54'19" COUNTER-CLOCKWISE WAS APPLIED TO BEARINGS ON P1.

LEGEND:		
	PROPERTY LINE	
	EXISTING ELEVATION	HEAVY DUTY PAVEMENT
	PROPOSED ELEVATION	
	EXISTING SHEET FLOW	
	PROPOSED SHEET FLOW	
	EXISTING VALVE & BOX	
	EXISTING HYDRANT & VALVE	PROPOSED MAJOR SYSTEM
	EXISTING STORM MANHOLE	
	EXISTING SINGLE/DOUBLE CATCHBASIN	EXISTING MAJOR SYSTEM ROUTE
	EXISTING SANITARY MANHOLE	LIMIT OF DISTURBANCE (ASPHALT CURB LINE)
	PROPOSED STORM MANHOLE	

DESIGN BY:

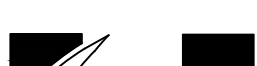


A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. Inside the ring, the name "A. W. McEwen" is written in cursive. Below the name, the license number "100505061" is printed. At the bottom of the seal, the expiration date "JUNE 7, 2021" is printed.

REVIEWED BY:



CONSULTANT:



15955 AIRPORT ROAD, SUITE 304
CALEDON EAST, ONTARIO, L7G 1H9
PHONE: (905) 584-1458 FAX: (905) 584-1461

Urban Watershed Group Ltd.

*A Member of the **GREENLAND** Group of Companies*
urbanwater@gmland.com

DESIGNED BY: P. ELLIS	DATE: MAR 10, 2021
DRAWN BY: B. KLESS	SURVEYED BY: RUDY MACK SURVEYING LTD.
CHECKED BY: J. HARTMAN	DWG. No.
SCALE: 1:300	21002-GR1

PROJECT NAME:
PROPOSED RETAIL DEVELOPMENT -
REXALL PHARMACY GROUP LTD
407 BAYFIELD STREET
BARRIE, ONTARIO
CITY FILE #: D28-056-2020

DRAWING NAME:

SITE GRADING PLAN