

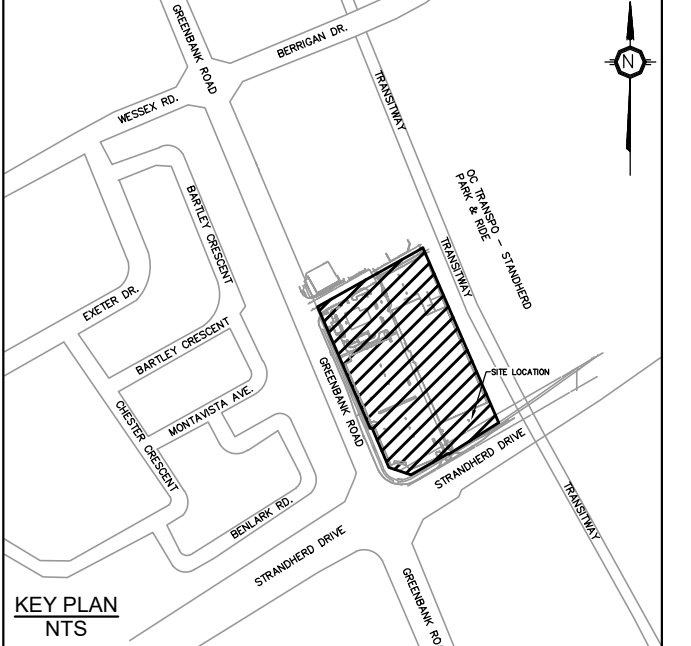
**LEGEND:**

- EXISTING PROPERTY LINE
- STRUCTURE TO BE REMOVED
- SEWER TO BE REMOVED
- ASPHALT REMOVAL
- LANDSCAPE REMOVAL
- CONCRETE REMOVAL
- EXISTING CURB REMOVAL

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**PARSONS**

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**TOPOGRAPHIC INFORMATION & BENCHMARK**

SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ON NOVEMBER 9<sup>TH</sup> 2022. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CONTROL MONUMENT NO. 019680071 HAVING AN ELEVATION OF 99.742m.

**NOTES: REMOVALS AND DEMOLITION**

1. PRE-REMOVAL, THE CONTRACTOR MUST VISIT THE PREMISES IN ORDER TO BE FULLY AWARE OF EXISTING CONDITIONS ON SITE, INCLUDING ALL ELEMENTS TO BE REMOVED AND DEMOLISHED. NO CLAIM WILL BE ACCEPTED DUE TO A POOR EVALUATION OF THE WORK TO BE COMPLETED.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND THE REQUEST FOR INTERRUPTION OF PUBLIC UTILITY SERVICES, SUCH AS GAS, TELEPHONE, POWER, CABLE, SEWERS, WATERMAIN, ETC. BEFORE PROCEEDING WITH WORK, COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES.
3. FIRE HYDRANTS TO BE TAGGED AND BAGGED AND/OR PROTECTED AS INDICATED ON DRAWING.
4. CURB, ASPHALT, SIDEWALK, AND GRANULAR BASE TO BE EXCAVATED WITHIN LIMITS OF DEMOLITION REMOVAL. THE CONTRACTOR MUST CARRY OUT NECESSARY SAW CUTS.
5. SEWER / WATERMAIN PIPES TO BE ABANDONED MUST BE CUT, FILL WITH UNSHRINKABLE CONCRETE CONFORMING TO OPSS 3159, AND CAPPED.
6. REMOVE AND DISPOSE SEWERS AS INDICATED. PLUG ANY SERVICE LATERALS TO BE ABANDONED.
7. THE CONTRACTOR MUST ENTIRELY REMOVE THE DEMOLITION WRECKAGE FROM THE CONSTRUCTION SITE OFFSITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE (MOECC).
  - a. THE CONTRACTOR MUST DISCARD RECYCLABLE DEMOLITION MATERIALS IN COLLABORATION WITH A REGIONAL RECYCLING COMPANY.
  - b. ALL OTHER DEMOLITION MATERIALS MUST BE DISPOSED OFF-SITE AT AUTHORIZED LICENSED LANDFILLS AND IN CONFORMITY WITH THE APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR MUST BE ABLE TO PROVIDE, UPON REQUEST, COPIES OF THE DISPOSAL TICKETS TO THE OWNER'S REPRESENTATIVE.
8. SURFACES AND WORKS LOCATED OUTSIDE OF THE CONSTRUCTION WORK LIMIT MUST BE REINSTATE AS THEY WERE BEFORE BEGINNING OF WORK. CONTRACTOR IS RESPONSIBLE TO MAKE GOOD ON ANY DAMAGES TO EXISTING CURB AND ASPHALT NOT SCHEDULED FOR REMOVAL.
9. ALL MATERIALS, PRODUCTS AND OTHERS COMING FROM THE DEMOLITION BELONG TO THE CONTRACTOR, UNLESS SPECIFIED OTHERWISE.
10. THE CONTRACTOR MUST COMPLETE ALL REMOVALS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO MAKE THE WORK COMPLETE.
11. THE CONTRACTOR MUST PROTECT AND MAINTAIN IN SERVICE THE EXISTING WORKS WHICH MUST REMAIN IN PLACE. IF THEY ARE DAMAGED, THE CONTRACTOR MUST IMMEDIATELY MAKE THE REPLACEMENTS AND NECESSARY REPAIRS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
12. THE CONTRACTOR MUST NOT PERFORM ANY TREE CUTTING DURING THE CORE MIGRATORY BIRDS NESTING PERIOD, WHICH IS APRIL 15 TO AUGUST 15.

NO.	DATE	DESCRIPTION	BY
1	2023-05-18	ISSUED FOR SITE PLAN APPLICATION	PC



**2501 GREENBANK RD  
CANADIAN TIRE STORE EXPANSION**

BARRHAVEN, ONTARIO

**REMOVAL PLAN**

- NOTES: GENERAL**
1. THE CONTRACTOR MUST CONFORM TO ALL LAWS, CODES, ORDINANCES, AND REGULATIONS ADOPTED BY FEDERAL, PROVINCIAL OR MUNICIPAL GOVERNMENT COUNCILS AND GOVERNMENT AGENCIES, APPLYING TO WORK TO BE CARRIED OUT. WHEREVER STANDARDS, LAWS AND/OR REGULATIONS ARE MENTIONED THEY REFER TO THEIR CURRENT VERSIONS, MODIFICATIONS INCLUDING.
  2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS (OPSS AND OPSD), THE ONTARIO MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE, THE ONTARIO MINISTRY OF NATURAL RESOURCES, APPLICABLE CONSERVATION AUTHORITIES, THE MUNICIPAL STANDARD SPECIFICATIONS AND DRAWINGS, AND ALL OTHER GOVERNING AUTHORITIES AS THEY APPLY, UNLESS OTHERWISE INDICATED.
  3. ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 206, 310 & 314. MATERIALS TO OPSS 1001, 1003 & 1010.
  4. THE LOCATION OF EXISTING UNDERGROUND MUNICIPAL SERVICES AND PUBLIC UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES (ON-SITE AND OFF-SITE) PRIOR TO ANY EXCAVATION WORK. DAMAGE TO ANY EXISTING SERVICES AND/OR EXISTING UTILITIES DURING CONSTRUCTION, WHETHER OR NOT SHOWN ON THE DRAWINGS MUST BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
  5. THE CONTRACTOR SHALL DETERMINE THE EXACT INVERT (GEODETIC ELEVATION), DIAMETER AND CONSTRUCTION MATERIAL OF THE EXISTING CONDUITS AT THE PROPOSED CONNECTIONS. THEY SHALL ALSO CARRY OUT, IF NECESSARY, EXPLORATORY DIGS IN ORDER TO DETERMINE THE EXACT LOCATION AND INVERTS OF EXISTING DUCK BANKS. THIS INFORMATION SHALL IMMEDIATELY BE PROVIDED TO THE CONSULTANT PRIOR TO START UNDERTAKING ANY MUNICIPAL SERVICES WORK AND A 48 HOUR PERIOD MUST BE ALLOCATED TO THE CONSULTANT FOR DESIGN REVIEW.
  6. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND

7. DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK AND ACTIVITIES WITH OTHERS TRADES AND CONTRACTORS.
10. THE CONTRACTOR IS THE ONLY PERSON IN CHARGE OF SAFETY ON THE BUILDING SITE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE PROTECTION OF THE WORKERS, OTHER PERSONNEL AND THE GENERAL PUBLIC. PROTECTION OF MATERIALS, AS WELL AS MAINTAINING IN GOOD CONDITION THE COMPLETED WORKS AND WORKS TO BE COMPLETED. THE CONTRACTOR MUST PROVIDE AT ANY TIME:
  - a. A SUFFICIENT NUMBER OF FENCES, BARRIERS, POSTERS, GUARDS AND OTHERS TO ENSURE SAFETY.
  - b. NECESSARY CONVENIENCES FOR THE COMPLETION OF WORK SUCH AS HEATING, LIGHTING, VENTILATION ETC.
11. CONTRACTOR IS RESPONSIBLE TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE ALL THE WORKS AND ACTIVITIES AND BEAR COST OF THE SAME, SUCH AS BUT NOT LIMITED TO, ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC. AND THEIR ASSOCIATED COSTS.
12. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
13. JOB BENCH MARK - CONFIRM WITH PARSONS PRIOR TO UTILIZATION. THE CONTRACTOR MUST MAINTAIN BENCHMARKS AND LANDMARK REFERENCES AS IS, OTHERWISE THESE REFERENCES WILL BE REPOSITIONED BY A CERTIFIED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
14. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
15. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, DEWATERING OF EXCAVATIONS COULD BE REQUIRED. IT IS ASSUMED THAT GROUNDWATER MAY BE CONTROLLED BY SUMP AND PUMPING METHODS. THE CONTRACTOR SHALL OBTAIN A PERMIT TO TAKE WATER IF SITE CONDITIONS REQUIRE TAKING MORE THAN A TOTAL OF 400 000 L/DAY.
16. STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS. SITE PREPARATION INCLUDES CLEARING, GRUBBING, STORING OF TOPSOIL, DEMOLITION, REMOVAL OF UNSUITABLE

16. MATERIALS, CUT, FILL AND ROUGH GRADING OF ALL AREAS TO RECEIVE FINISHED SURFACES.
17. ALL ADJUTING PROPERTY GRADE TO BE MATCHED.
18. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 300mm WIDTH MINIMUM.
19. CURBS TO BE BARRIER, CONSTRUCTED AS PER OPSS 600 110, EXCEPT WHERE INDICATED OTHERWISE. ELEVATION AT TOP OF CONCRETE CURBS TO BE 150 mm ABOVE THE ASPHALT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
20. DEPRESSED CURBS TO BE MOUNTABLE, CONSTRUCTED AS PER OPSS 600 100.
21. LIGHT DUTY AND HEAVY DUTY ASPHALT PAVEMENTS TO BE CONSTRUCTED AS PER TABLE ON DRAWING C103.
22. TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE CONSTRUCTED AS PER DETAIL O2 ON DRAWING C103 AND TRENCHES AS PER DETAIL R10 ON DRAWING C104.
23. RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
24. CLEANLINESS ON THE SITE, INCLUDES THE CONTRACTOR SHALL CLEAN ROADWAYS AT HIS OWN COST AS DIRECTED BY THE OWNER'S REPRESENTATIVE. MATERIALS AND EQUIPMENT MUST BE LAID OUT IN AN ORGANIZED AND SAFE MANNER, AND ALL MATERIAL, EQUIPMENT AND TEMPORARY STRUCTURES WHICH ARE NO LONGER NECESSARY FOR THE EXECUTION OF THE CONTRACT MUST BE REMOVED FROM THE SITE.
25. CONTRACTOR TO ENSURE MITIGATION MEASURES ARE IMPLEMENTED TO REDUCE THE RISK OF GROUND CONTAMINATION FROM PETROLEUM PRODUCTS.
26. THE CONTRACTOR MUST ENSURE THE FOLLOWING MEASURES ARE IMPLEMENTED REGARDING THE HANDLING OF CONCRETE:
  - a. CONCRETE SHOULD EITHER BE MIXED AWAY FROM THE SITE OR SHOULD BE PREPARED ON PAVED SURFACES IF ONLY SMALL QUANTITIES ARE REQUIRED (I.E. MINOR REPAIRS); EXCESS CONCRETE MUST BE DISPOSED OFF-SITE AT A LOCATION THAT MEETS ALL REGULATORY REQUIREMENTS;
  - b. THE WASHING OF CONCRETE TRUCKS AND OTHER EQUIPMENT USED FOR MIXING CONCRETE SHOULD NOT BE CARRIED OUT WITHIN 30 METERS OF A WATERCOURSE OR WETLAND AND SHOULD TAKE PLACE OUTSIDE OF THE WORK SITE;

27. ALL CONCRETE TRUCKS SHOULD COLLECT THEIR WASH WATER AND RECYCLE IT BACK INTO THEIR TRUCKS FOR DISPOSAL OFF-SITE AT A LOCATION MEETING ALL REGULATORY REQUIREMENTS.
28. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED SURPLUS MATERIALS THAT WILL BE REQUIRED TO BE DISPOSED OFFSITE BE STOCKPILED TEMPORARILY FOR SAMPLING PRIOR TO BEING LOADED ONTO THE TRUCKS.
29. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
30. TRENCHING, BACKFILLING AND COMPACTING MUST CONFORM TO OPSS 401.
31. DEWATERING OF PIPELINE, UTILITY AND ASSOCIATED STRUCTURE EXCAVATIONS TO BE COMPLETED AS PER OPSS 517.
32. THE CONTRACTOR MUST CONTROL SURFACE RUNOFF FROM PRECIPITATION DURING CONSTRUCTION.
33. FOR ALL GEOTECHNICAL WORK, CONTRACTOR TO REFER TO "GEOTECHNICAL INVESTIGATION, CANADIAN TIRE STORE #442, GREENBANK ROAD, NEPEAN, ONTARIO, BY JACQUES, WHITFORD AND ASSOCIATES LIMITED, DATED JANUARY 31, 2000.
34. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
35. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OFF ALL AREAS DISTURBED DURING CONSTRUCTION TO EXISTING CONDITIONS OR BETTER AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE CONSULTANT AND MUNICIPAL AUTHORITIES. ASPHALT REINSTATEMENT MUST BE IN ACCORDANCE WITH OPSS 310. LANDSCAPE AREAS TO BE REINSTATE WITH 150 mm OF TOPSOIL AND SOD IN ACCORDANCE WITH OPSS 802 AND OPSS 803.
36. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING TEMPORARY TRAFFIC SIGNAGE, INCLUDING TRAFFIC SIGNS, TRAFFIC MARKINGS AND TEMPORARY TRAFFIC LIGHTS, AND FLAGMEN, AS REQUIRED BY THE OWNER, THE CONSULTANT, THE MUNICIPALITY, THE MTO, AND OTHER GOVERNING AUTHORITIES.
37. CONDITIONS REQUIRE TAKING MORE THAN 400 000 L/DAY.
38. CONSTRUCT SIDEWALK CONCRETE JOINTS & CONTROL JOINTS AS PER OPSS 310.020.
39. CONSTRUCT CONCRETE SIDEWALK AS PER OPSS 310.020 AND OPSS 351. TACTILE WALKING SURFACE INDICATORS PER OPSS 351.

40. DISPOSE OF CONTAMINATED MATERIALS AT APPROPRIATE OFF-SITE FACILITY THAT MEETS ALL REGULATORY REQUIREMENTS.
41. BE PREPARED TO INTERCEPT, CLEAN UP, AND DISPOSE OF SPILLS OR RELEASES THAT MAY OCCUR WHETHER ON LAND OR WATER. MAINTAIN MATERIALS AND EQUIPMENT REQUIRED FOR CLEANUP OF SPILLS OR RELEASES READILY ACCESSIBLE ON SITE.
42. PROMPTLY REPORT SPILLS AND RELEASES POTENTIALLY CAUSING DAMAGE TO ENVIRONMENT TO: AUTHORITY HAVING JURISDICTION OR INTEREST IN SPILL OR RELEASE INCLUDING CONSERVATION AUTHORITY, WATER SUPPLY AUTHORITIES, DRAINAGE AUTHORITY, ROAD AUTHORITY, AND FIRE DEPARTMENT.
43. DECONTAMINATE EQUIPMENT AFTER WORKING IN POTENTIALLY CONTAMINATED WORK AREAS AND PRIOR TO SUBSEQUENT WORK OR TRAVEL ON CLEAN AREAS.
44. DO NOT DISCHARGE DECONTAMINATED WATER, OR SURFACE WATER RUNOFF, OR GROUNDWATER WHICH MAY HAVE COME IN CONTACT WITH POTENTIALLY CONTAMINATED MATERIAL, OFF SITE OR TO MUNICIPAL SEWERS.
45. CONTRACTOR NEEDS TO SUBMIT A TRAFFIC MANAGEMENT PLAN FOR APPROVAL ONE (1) WEEK PRIOR TO ANY WORK WITHIN THE ROW LIMITS TO MEET THE REQUIREMENTS OF MTO BOOK 7. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT ALL REQUIREMENTS OF THE MTO BOOK 7.
46. TOWN PUBLIC WORKS DEPARTMENT TO BE CONTACTED MINIMUM 7 DAYS PRIOR TO PLANNED DATE FOR CONNECTION TO EXISTING STORM SEWERS, SANITARY SEWERS, AND WATERMAIN. CONNECTION TO EXISTING TO TAKE PLACE IN THE PRESENCE OF APPROPRIATE MUNICIPALITY OF CASSLEMAN STAFF.

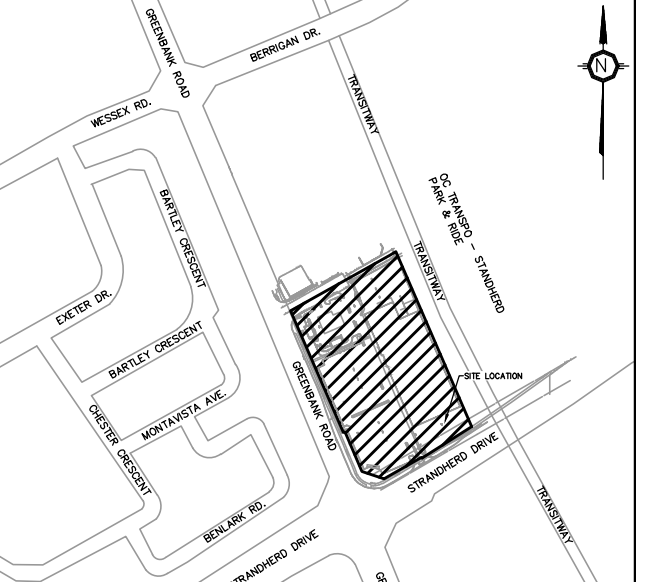
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 PROJECT DATE: 2022-09-23  
 DRAWN BY: BV  
 CHECKED BY: MT  
 SCALE: As indicated

PROJECT NO. 100130636  
 DATE: 05/18/2023  
 PROVINCE OF ONTARIO

DRAWING NO. **C101** REV. **1**

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This site plan prepared by Turner Fleischer is based on a legal survey showing the boundaries of the land together with the true location of any existing buildings, features or monuments prepared by J.D. BARNES LIMITED, dated 2020-12-22 as provided by CANADIAN TIRE

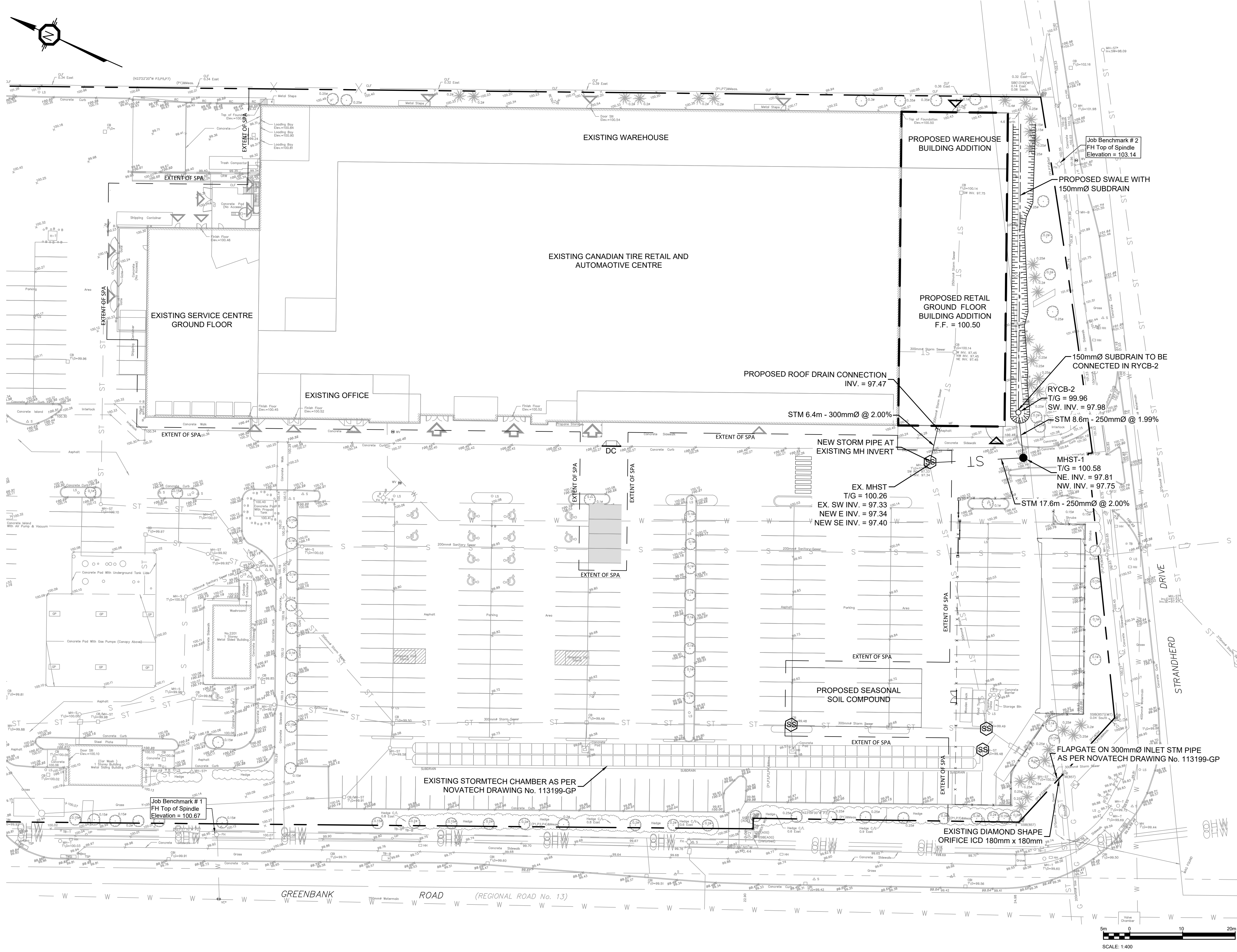
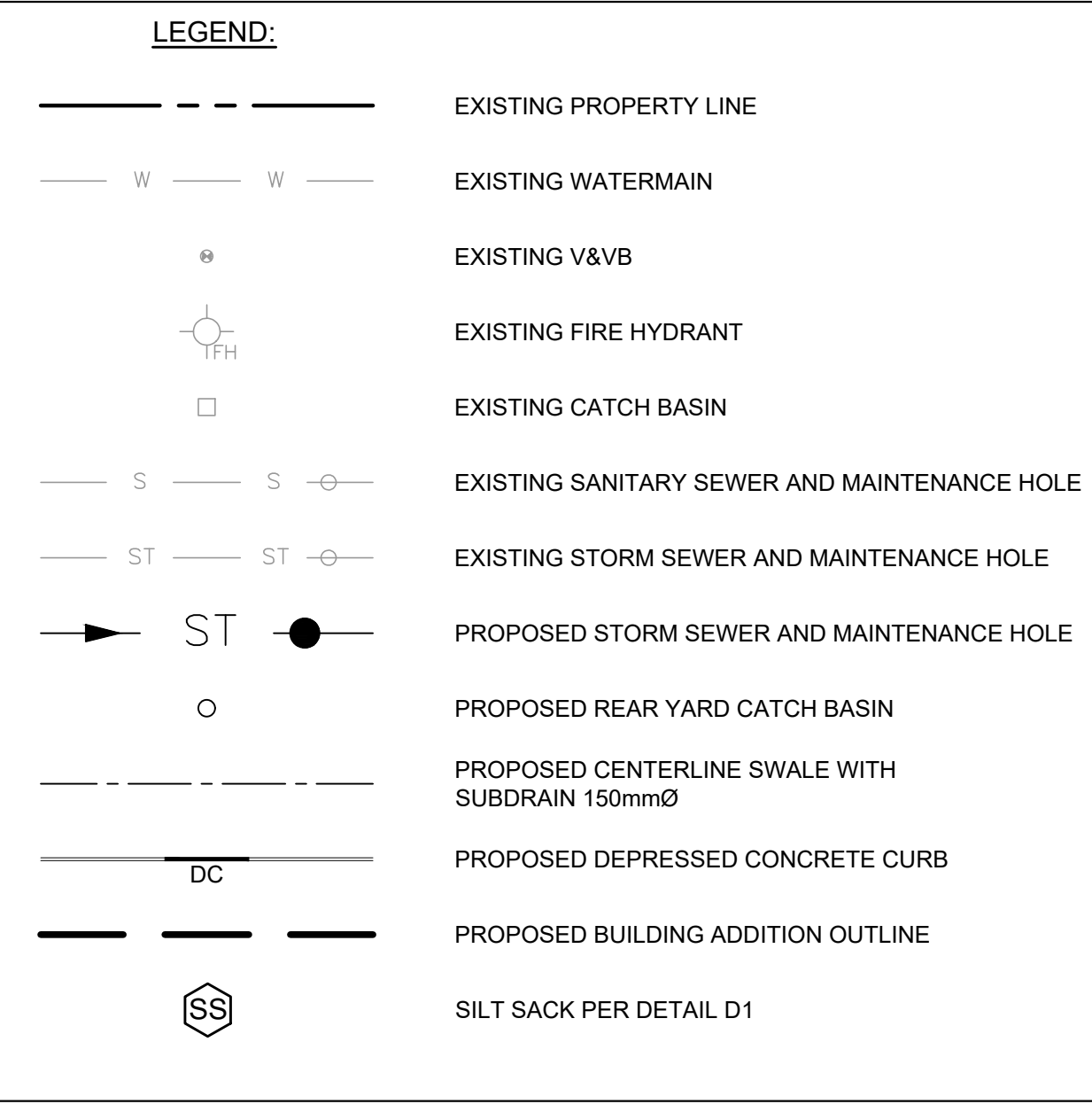


KEY PLAN NTS



### TOPOGRAPHIC INFORMATION & BENCHMARK

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### NOTES: SEWER

- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSS 407, AND 410.
- PIPE MATERIAL TO BE PVC SDR-35 AND CONFORMING TO OPSS 1841, UNLESS INDICATED OTHERWISE. PVC SEWERS TO BE INSTALLED PER OPSS 802.010 (MODIFIED). BEDDING AND COVER MATERIALS TO BE OPSS 1010 GRANULAR 'A' CRUSHER-RUN LIMESTONE BEDDING COMPACTED TO 95% SPMD.
- ALL SEWERS WITH LESS THAN 1.5 METERS OF COVER ARE SUBJECT TO INSULATION PIPE BACKFILL MATERIAL TO BE APPROVED NATIVE MATERIAL OR SELECT SUBGRADE MATERIAL IN CONFORMANCE WITH OPSS 212.
- ALL MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES TO BE 1200mmØ AS PER OPSS 701.010, UNLESS INDICATED OTHERWISE. MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES TO BE INSTALLED PER OPSS 407.
- ALL CATCH BASINS TO BE 600x600mm AS PER OPSS 705.010, UNLESS INDICATED OTHERWISE. CATCH BASINS TO BE INSTALLED PER OPSS 407.
- FOR STORM STRUCTURES: CAST IRON CATCH BASIN MAINTENANCE HOLES, CATCH BASIN MAINTENANCE HOLES, AND CATCH BASINS TO BE COMPLETED AS PER OPSS 402. THEY ARE TO BE BACKFILLED WITH OPSS GRANULAR 'B' COMPACTED TO 98% SPMD. JOINTS BETWEEN SECTIONS TO BE WRAPPED WITH NON-WOVEN GEOTEXTILE.
- FOR STORM STRUCTURES: CAST IRON CATCH BASIN MAINTENANCE HOLE COVER AS PER OPSS 401.010 TYPE 'B' AND CAST IRON CATCH BASIN COVER AS PER OPSS 400.020.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING OR ARRANGING ALL CONNECTIONS TO THE EXISTING SEWERS AS PER MUNICIPAL REQUIREMENTS. PRIOR TO CONNECTION, THE CONTRACTOR MUST PROVIDE, TO THE CONSULTANT / ENGINEER AND THE CITY FOR APPROVAL, ALL TEST RESULTS PERFORMED ON THE INTERNAL SERVICES.
- ADVISE THE CITY PUBLIC WORKS AT LEAST 72 HOURS IN ADVANCE BEFORE ANY CONNECTION TO THE TOWN SERVICES. CO-ORDINATE WITH TOWN AS REQUIRED.
- TERMINATE AND PLUG ALL SERVICE CONNECTIONS AT 1.0m FROM EDGE OF THE BUILDING.
- ALL SEWERS TO BE C.C.T.V. INSPECTED BY THE CONTRACTOR AS PER OPSS 409. TWO COPIES OF THE INSPECTION REPORT MUST BE PROVIDED TO THE CONSULTANT AND THE C.C.T.V. INSPECTION IN DVD FORMAT ONLY.
- SUBDRAIN KNOCKOUT (KO) WILL BE PRE-MANUFACTURED WITH CATCH BASINS AND MAINTENANCE HOLES.
- EXISTING STORMTECH CHAMBERS LOCATED ON THE SOUTH WEST END OF THE PARKING LOT, PARALLEL TO GREENBANK (SEE PLAN C102), TO BE KEPT AND PROTECT, FREE OF ANY CONSTRUCTION DEBRIS OR ANY OTHER DAMAGES DURING CONSTRUCTION.

### EROSION AND SEDIMENT CONTROL MEASURES:

- CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURE MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- SEDIMENT AND EROSION CONTROL PLAN OBJECTIVES:
  - PREVENT SOIL EROSION. THIS CAN RESULT FROM STREAMING RAIN WATER OR WIND EROSION DURING CONSTRUCTION.
  - PREVENT SEDIMENT DEPOSITS IN THE SEWER PIPES AND NEARBY COLLECTING STREAMS (AS APPLICABLE).
  - PREVENT AIR POLLUTION FROM PARTICULATE MATTER AND DUST.
- 1. PRIOR TO START OF CONSTRUCTION:**
  - PRIOR TO THE REMOVAL OF ANY VEGETATIVE COVER, MOVING OF SOIL AND CONSTRUCTION:
    - INSTALL SILT FENCE (AS PER OPSS 219.110) ALONG DITCHES IMMEDIATELY DOWNSTREAM FROM AREAS TO BE DISTURBED.
    - INSTALL FILTER CLOTH ON DOWNSTREAM MANHOLE COVERS.
    - INSTALL SILTSACK FILTERS IN ALL CONCRETE CATCH BASINS STRUCTURES.
    - INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
    - THE CONTRACTOR MUST SET UP THE MEASURES INDICATED ON THE PLAN, INSPECT THEM FREQUENTLY AND CLEAN AND REPAIR OR REPLACE THE DETERIORATED STRUCTURES. AT THE END OF THE CONSTRUCTION PERIOD, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF THE TEMPORARY STRUCTURES AND RECONDITIONING THE AFFECTED AREAS

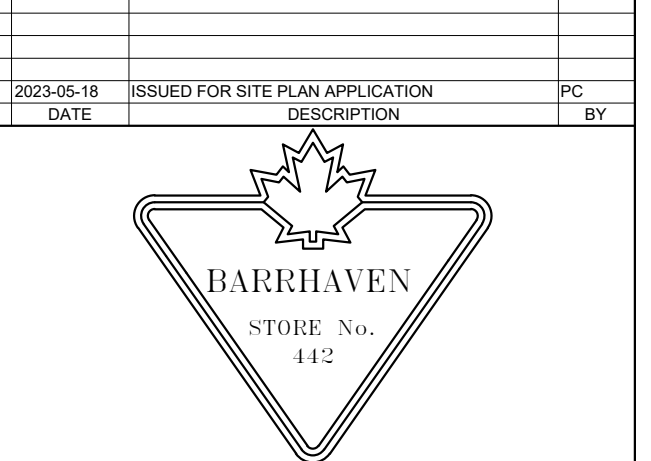
### 2. DURING CONSTRUCTION:

- SEDIMENT AND EROSION CONTROL MEASURES TO BE CONSTRUCTED AS PER OPSS 805.
- WHEN SEDIMENT AND EROSION CONTROL MEASURES MUST BE REMOVED TO COMPLETE A PORTION OF THE WORK, THE SAME MEASURES MUST BE REINSTATED UPON THE WORK'S COMPLETION.
- WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY AND SEPTEMBER ONLY.
- MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
- PROTECT DISTURBED AREAS FROM RUNOFF.
- PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED SHORTLY.
- INSPECT STRAW BALE FLOW CHECK DAMS, SILT FENCES, SILT SACKS, AND CATCH BASIN SUMPS REGULARLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY. PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS). WHEN STORING SOIL ON SITE THE CONTRACTOR MUST COVER EACH PILE WITH TAPPS, STRAW OR A GEOTEXTILE FABRIC TO AVOID FINE PARTICLE TRANSPORT BY WIND AND/OR STREAMING RAIN WATER.
- CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED). FOR DUST CONTROL, CONTRACTOR TO APPLY CALCIUM CHLORIDE (TYPE 1 - OPSS 2501 AND CANICGSB-15-1) AND WATER WITH EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE AT RATE IN

### 3. AFTER CONSTRUCTION:

- PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SEED TO DISTURBED AREAS.
- ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE REMOVED BY THE CONTRACTOR FOLLOWING THE COMPLETION OF WORK AND AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED. THIS INCLUDES REMOVE STRAW BALE FLOW CHECK DAMS, SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MANHOLE COVERS.
- INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.
- ACCORDANCE TO OPSS 506 WHEN DIRECTED BY OWNER'S REPRESENTATIVE.
- ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER. SEDIMENT CAPTURE SILT SACKS MUST BE MAINTAINED AND CANNOT BE REMOVED UNTIL ALL LANDSCAPING AREAS ARE COMPLETED.
- NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVES BY THIS CONSULTING ENGINEER AND THE TOWN DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR RESPONSIBLE FOR MUNICIPAL ROADWAY AND SIDEWALK TO BE CLEARED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
- DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
- TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJUTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
- PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PROVIDE MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 10m LONG, 4m WIDE, AND 0.15m DEEP AND SHALL CONSIST OF COARSE MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAR CONDITION.

STORM SEWER STRUCTURE TABLE				
STRUCTURE No.	STRUCTURE DETAILS	ELEVATIONS (m)	NORTHING	EASTING
MHST-1	CONCRETE MANHOLE 1200mm OPSS 701.010	T/G = 100.58 INV NE = 97.81 INV NW = 97.75	5014866.96	363999.18
RYCB-2	RYCB 375mm CITY OF OTTAWA S31	T/G = 99.96 INV SW = 97.98	5014871.28	364006.61
EX. MHST	EXISTING STRUCTURE	EX T/G = 100.26 EX INV SW = 97.33 NEW INV E = 97.34 NEW INV SE = 97.40	5014882.64	363991.18

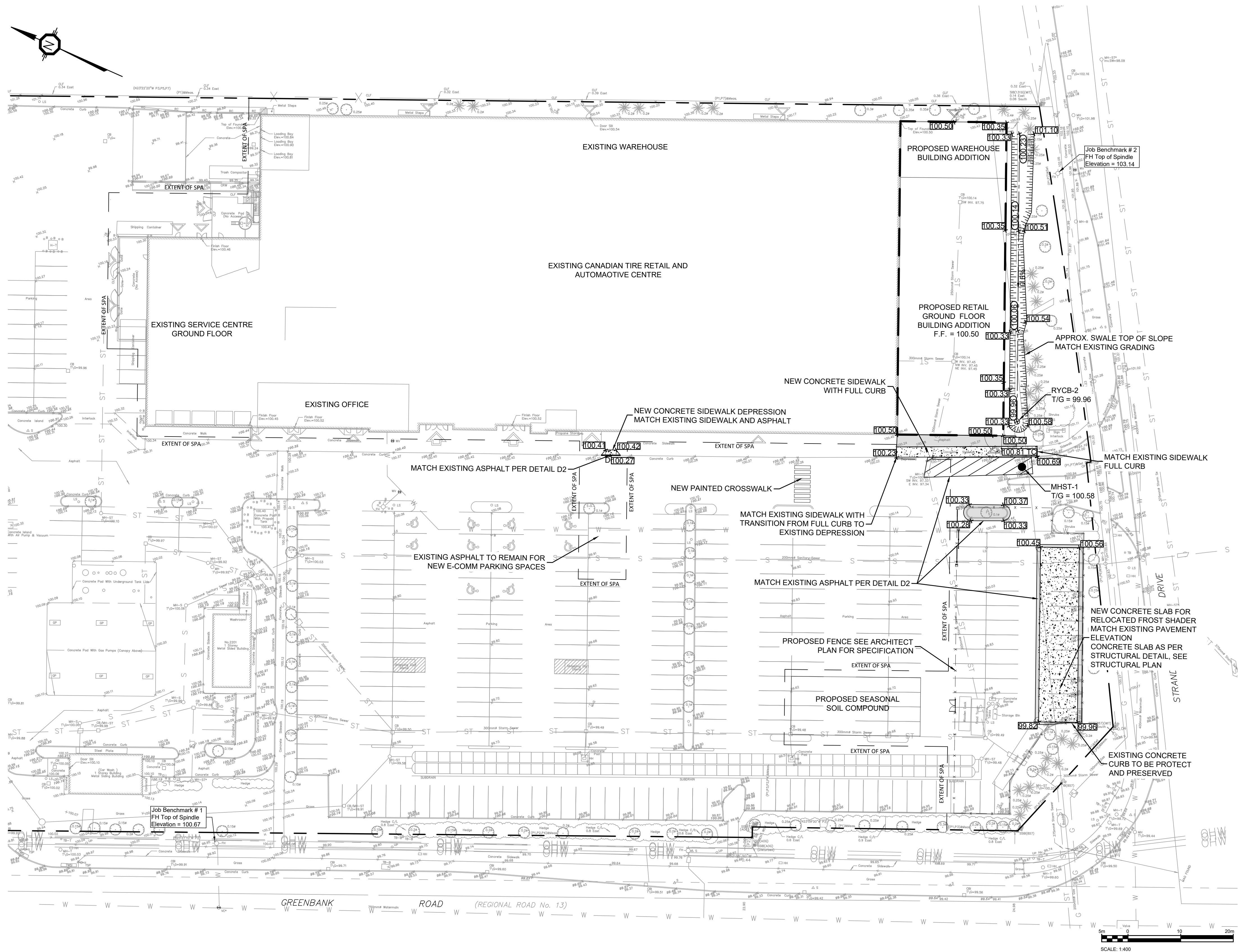


PROJECT  
**2501 GREENBANK RD  
CANADIAN TIRE STORE EXPANSION**  
BARRHAVEN, ONTARIO

### SITE SERVICING & EROSION/SEDIMENT CONTROL PLAN

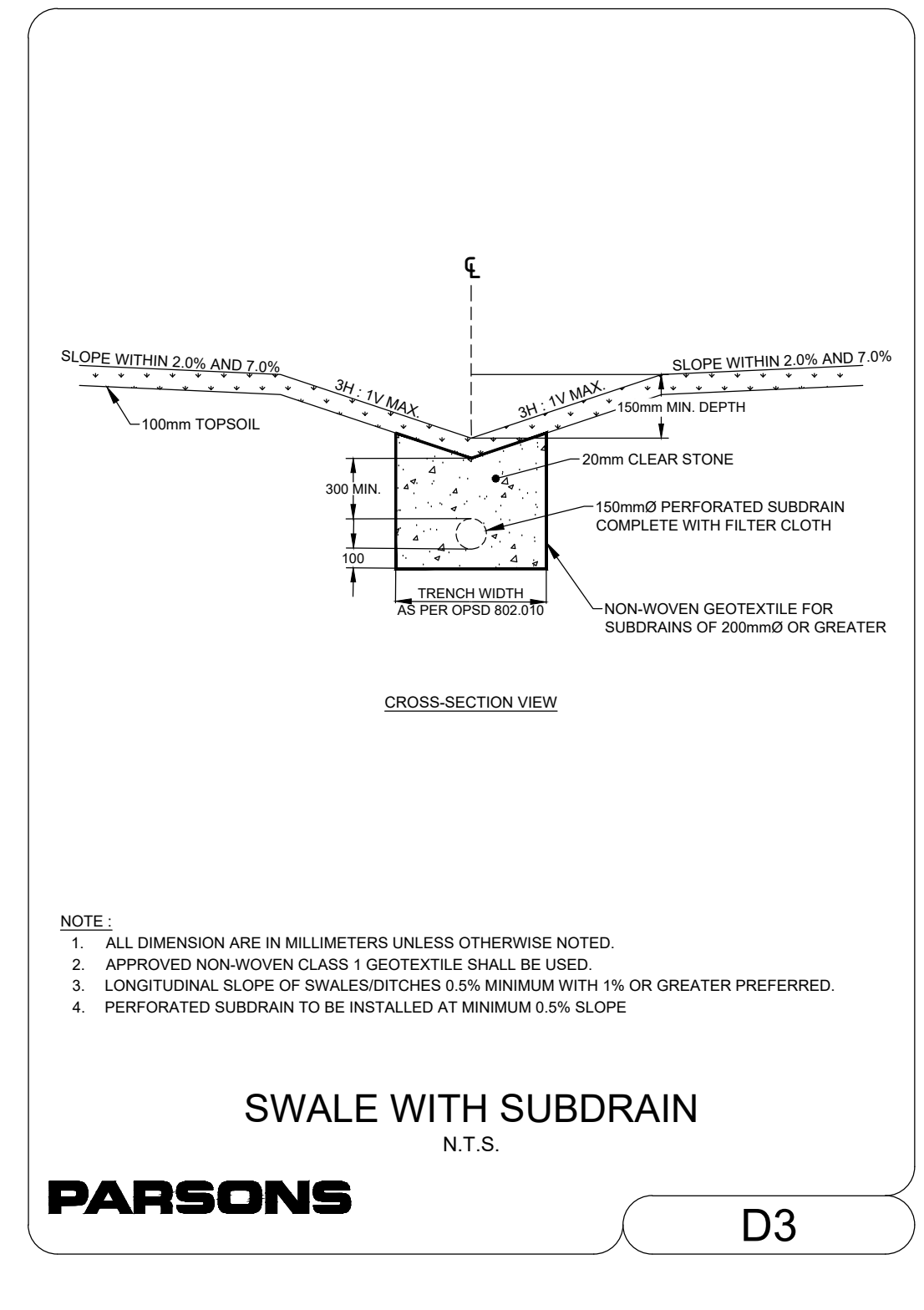
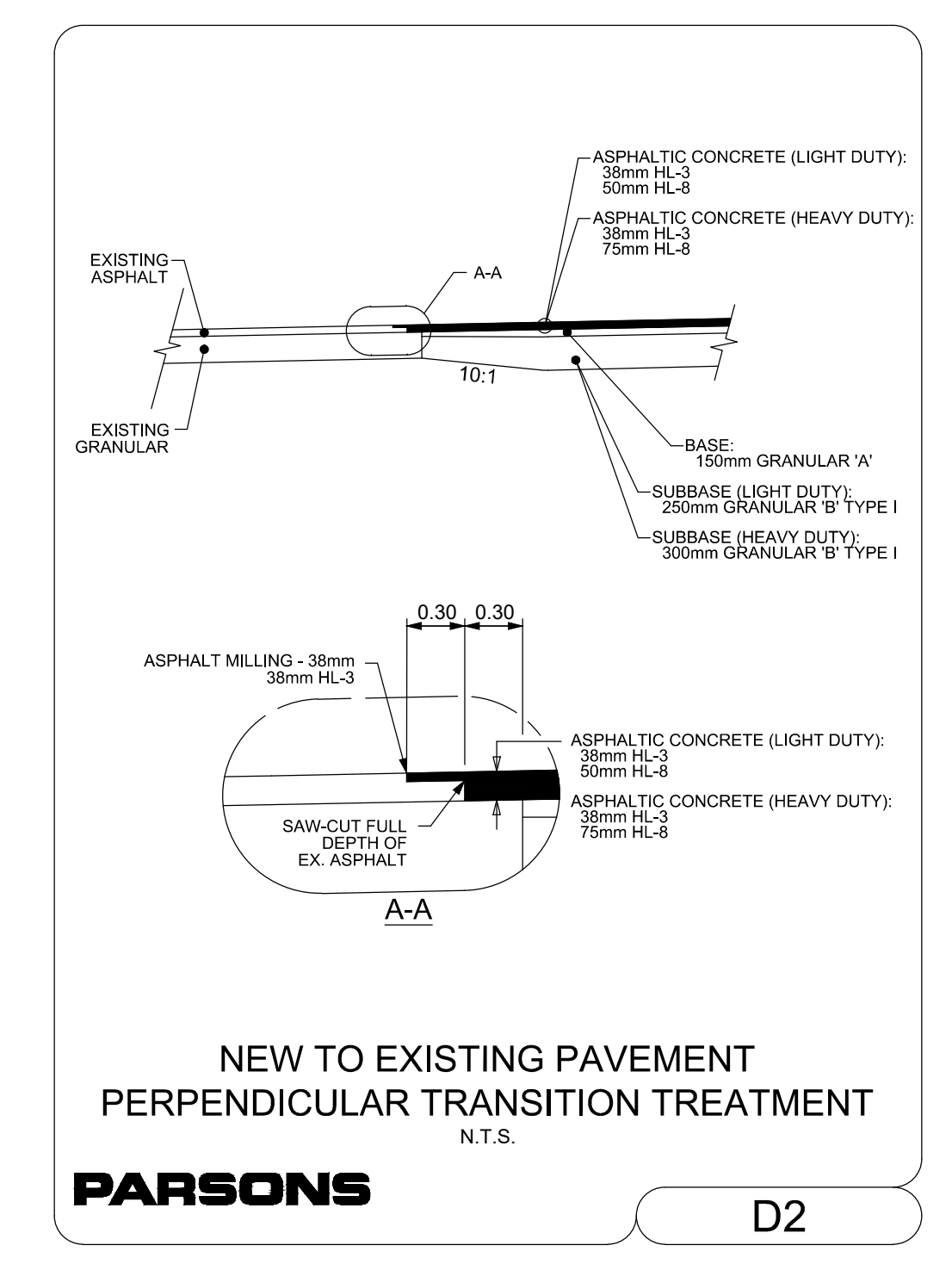
PROJECT NO: 478461  
PROJECT DATE: 2022-09-23  
DRAWN BY: BV  
CHECKED BY: MT  
SCALE: As indicated  
DATE: 05/18/2023

DRAWING NO: **C102** REV: **1**



**LEGEND:**

	EXISTING PROPERTY LINE
	TERRACE (3:1 MAX)
	PROPOSED CENTERLINE SWALE WITH SUBDRAIN 150mmØ
	EXISTING GRADE
	PROPOSED GRADE
	PROPOSED GRADE TOP OF CURB
	PROPOSED SWALE CENTERLINE GRADE
	PROPOSED SLOPE DIRECTION AND PERCENTAGE
	PROPOSED LIGHT DUTY PAVEMENT
	PROPOSED HEAVY DUTY PAVEMENT
	PROPOSED CONCRETE SIDEWALK
	PROPOSED BUILDING ADDITION OUTLINE
	PROPOSED FENCE SEE ARCHITECT PLAN



**PAVEMENT STRUCTURES**

MATERIAL	LIGHT DUTY	HEAVY DUTY	COMPACTION
Asphaltic Concrete Surface Course: HL3	38 mm	38 mm	≥ 97%
Asphaltic Concrete Binder Course: HL8	50 mm	75 mm	≥ 97%
Granular Base: OPSS 1010 Granular A (crushed limestone)	150 mm	150 mm	100%
Granular Sub-base: OPSS 1010 Granular B, Type I	250 mm	300 mm	100%

FROM: GEOTECHNICAL INVESTIGATION, PROPOSED BUILDING STORE #442, GREENBANK ROAD, NEPEAN, ONTARIO, BY JACQUES, WHITFORD LIMITED. DATED JANUARY 31, 2000  
 \*MINIMUM PAVEMENT COMPACTION BASED ON MARSHALL BULK DENSITY TEST  
 \*\*BASED ON STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD)

**TURNER FLEISCHER**  
 Turner Fleischer Architects Inc.  
 67 Lesmill Road  
 Toronto, ON, M3B 2T8  
 T 416 425 2222  
 turnerfleischer.com

This drawing, as an instrument of service, is provided by and is the property of Turner Fleischer Architects Inc. The contractor shall verify and accept responsibility for all dimensions and conditions on site and shall notify Turner Fleischer Architects Inc. of any variations from the supplied information. This drawing is not to be used for any other project. The contractor shall be responsible for the accuracy of the survey, structural, mechanical, electrical, etc. information shown on this drawing. Refer to the appropriate contract documents for conditions of use. Construction shall conform to all applicable codes and requirements of authorities having jurisdiction. The contractor working from drawings not specifically marked 'For Construction' shall assume full responsibility and bear costs for any corrections or damages resulting from their work.

The site plan prepared by Turner Fleischer is based on a legal survey showing the boundaries of the lands together with the current location of any existing buildings, features or encroachments prepared by J.D. BARNES LIMITED, dated 2020-12-22 as provided by CANADIAN TIRE

**KEY PLAN**  
N.T.S.

**PARSONS**  
 1223 MICHAEL STREET, SUITE 100, OTTAWA, ONTARIO K1J 7T2  
 Tel: 613-738-4160 Fax: 613-738-7105

**TOPOGRAPHIC INFORMATION & BENCHMARK**  
 SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ON NOVEMBER 9<sup>TH</sup> 2022. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CONTROL MONUMENT NO. 019680071 HAVING AN ELEVATION OF 99.742m.

2023-05-18 ISSUED FOR SITE PLAN APPLICATION PC  
 # DATE DESCRIPTION BY

**BARRHAVEN**  
 STORE No. 442

**2501 GREENBANK RD**  
**CANADIAN TIRE STORE EXPANSION**  
 BARRHAVEN, ONTARIO

**GRADING PLAN**

PROJECT NO. 478451  
 PROJECT DATE 2022-09-23  
 DRAWN BY BV  
 CHECKED BY MT  
 SCALE As indicated

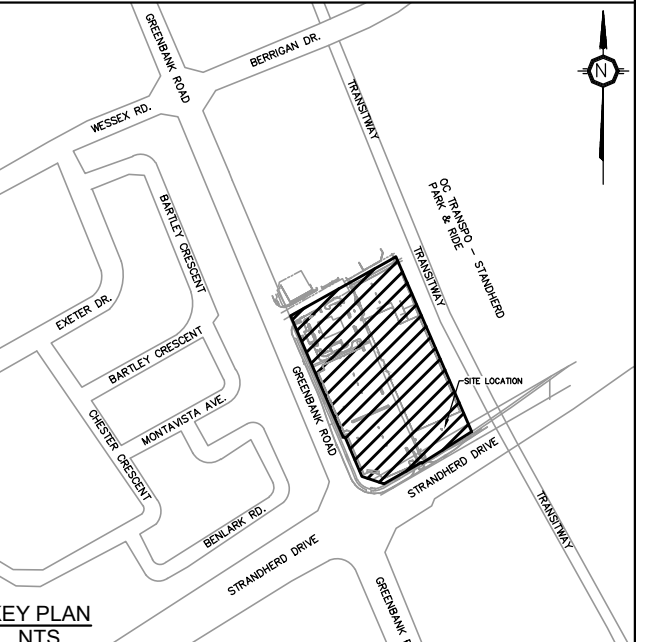
NOTE:  
 1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.  
 2. APPROVED NON-WOVEN GLASS FIBER GEOTEXTILE SHALL BE USED.  
 3. LONGITUDINAL SLOPE OF SWALES/DITCHES 0.5% MINIMUM WITH 1% OR GREATER PREFERRED.  
 4. PERFORATED SUBDRAIN TO BE INSTALLED AT MINIMUM 0.5% SLOPE

**PROVINCE OF ONTARIO**  
 05/18/2023  
 100130636

DRAWING NO. **C103** REV. **1**

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The site plan prepared by Turner Fleischer is reliant on a legal survey showing the boundaries of the lands together with the current location of any existing buildings, features or encroachments prepared by J.D. BARNES LIMITED, dated 2020-12-22 as provided by CANADIAN TIRE.



**PARSONS**  
1223 MICHAEL STREET, SUITE 100, OTTAWA, ONTARIO K1J 1T2  
Tel: 613-728-1100 Fax: 613-728-7109

**TOPOGRAPHIC INFORMATION & BENCHMARK**  
SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ON NOVEMBER 9<sup>TH</sup> 2022. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CONTROL MONUMENT NO. 019680071 HAVING AN ELEVATION OF 99.742m.

**SILT SACK DETAIL**

**PARSONS** D1

**NOTES:**  
1. Size and shape of the silt trap sack to fit the storm structure. It will service, (rectangular or round).  
2. The silt trap sack shall have a built-in high-flow relief system (overflow bypass).  
3. The silt trap sack assembly must allow removal without spilling the collected material.  
4. Empty silt trap sack and dispose of sediment and debris before the sack is half full.  
5. Ensure the silt trap sack assembly does not spill or fall into the storm structure. If sediment is spilled into the storm structure, remove the spilled material by suction hose or other approved method.  
6. Provide protection for catch basin hoods (Wattles, 2x4 lumber, and so forth).

**TYPICAL SIDEWALK SECTION**

**SECTION AT PRIVATE ENTRANCE AND PEDESTRIAN RAMPS**

**NOTES:**  
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.  
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.  
3. FOR CURB RAMP, SLOPE OF 2% TO 3% MAXIMUM 1%.  
4. EXPANSION AND DUMMY JOINTS AS PER SCS.  
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13 mm.

**MONOLITHIC CONCRETE CURB AND SIDEWALK**

DATE: MAY 2021  
REV: MAY 2021  
DWG. No.: SC2

**STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE**

**NOTES:**  
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.  
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.  
3. FOR CURB RAMP, SLOPE OF 2% TO 3% MAXIMUM 1%.  
4. EXPANSION AND DUMMY JOINTS AS PER SCS.  
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 13 mm.

**STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE**

DATE: MAY 2021  
REV: MAR 2023  
DWG. No.: R10

**SINGLE TRENCH (SEWER & SEWER SERVICES)**

**CONDITION SEWER SERVICES**

EARTH	150 Min.	150 Min.
ROCK	300 Min.	150 Min.

**NOTES:**  
1. PIPE INSIDE DIAMETER (mm) CLEARANCE (mm)  
OR LESS CONC 400  
OVER 500  
2. FINAL BACKFILL - APPROVED NATIVE MATERIAL OR SELECT SUBGRADE IN ACCORDANCE WITH F-2120.  
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.  
4. INITIAL BACKFILL MATERIAL - CONCRETE PIPE - GRANULAR 'A' OR SELECT SUBGRADE MATERIAL WITH 100% PASSING THE 37.5 mm SIEVE - GRANULAR 'A'.  
5. WHEN APPROVED BY THE CONTRACT ADMINISTRATOR, POOR SOILS SHALL BE EXCAVATED TO CREATE A FOUNDATION THAT SHALL BE FILLED TO THE BOTTOM OF THE BEDDING WITH GRANULAR 'A'.

**SINGLE TRENCH (SEWER & SEWER SERVICES)**

DATE: MAY 2021  
REV: MARCH 2021  
DWG. No.: S6

**STANDARD CIRCULAR FRAME FOR MAINTENANCE HOLES (MODIFIED OPSD-401.020)**

**NOTES:**  
1. MATERIAL - GREY IRON.  
2. FOR MAINTENANCE HOLE COVER SEE DWG. SBA, SBA-1, SBA-2.  
3. OPSD-401 HOLES HOLES ARE ALSO ACCEPTED.  
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

**STANDARD CIRCULAR FRAME FOR MAINTENANCE HOLES (MODIFIED OPSD-401.020)**

DATE: MAY 2021  
REV: MARCH 2021  
DWG. No.: S29

**CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS**

**NOTES:**  
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.  
2. FOR DITCHED PIPE APPLICATIONS, TOP OF CB SHALL BE MIN. 50mm ABOVE BOTTOM OF THE DITCHABLE AND BE LOCATED 100mm FROM EDGE OF PAVEMENT.  
3. WHEN NON-PERFORATED PIPE IS USED, MATCH THE T/HORIZONTAL OPENING DIMENSIONS TO THE PIPE DIAMETER AND CONNECT WITH MANUFACTURER'S RECOMMENDED JOINTING SLEEVES.  
4. SEE MS-22-18 FOR ALTERNATE APPROVED DITCHING MANUFACTURERS.

**CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS**

DATE: MARCH 2022  
REV: MARCH 2022  
DWG. No.: S28.1

**CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS**

SEWER	T
200mm	375mm
300mm	450mm
375mm	525mm
450mm	600mm
525mm	675mm
600mm	750mm

**CATCH BASIN - ELBOW FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS**

DATE: MARCH 2022  
REV: MARCH 2022  
DWG. No.: S31

**PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER**

**ALTERNATIVES**

**A PRECAST SLAB BASE**

**B CAST-IN-PLACE BASE**

**C PRECAST FLAT CAP**

**NOTES:**  
1. The sump is measured from the lowest invert.  
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.  
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.  
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.  
D Pipe support according to OPSD 708.020.  
E For benching and pipe opening details, see OPSD 701.021.  
F For adjustment unit and frame installation, see OPSD 704.010.  
G All dimensions are nominal.  
H All dimensions are in millimetres unless otherwise shown.

**PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER**

DATE: NOV 2014  
REV: 5  
DWG. No.: OPSD 701.010

**PARSONS**  
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#	DATE	DESCRIPTION	BY
1	2023-05-18	ISSUED FOR SITE PLAN APPLICATION	PC

**BARRHAVEN**  
STORE No. 412

**PROJECT**  
2501 GREENBANK RD  
CANADIAN TIRE STORE EXPANSION  
BARRHAVEN, ONTARIO

**DRAWING**

**DETAILS**

PROJECT NO: 478461  
PROJECT DATE: 2022-09-23  
DRAWN BY: BV  
CHECKED BY: MT  
SCALE: As indicated

**DRAWING NO. C104**

**REV. 1**