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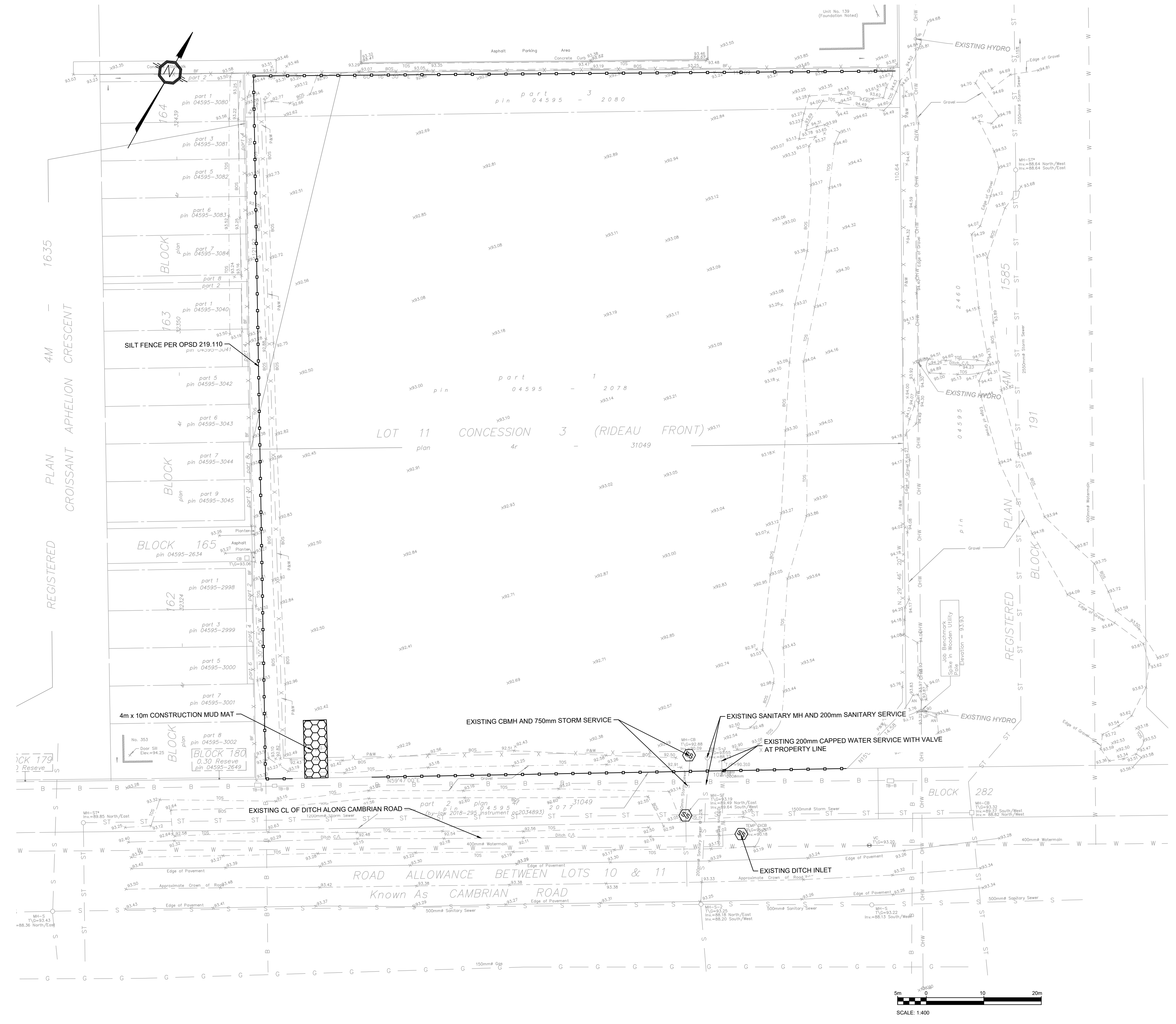
TOPOGRAPHIC INFORMATION & BENCHMARK
SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBECK LTD. ON OCTOBER 21, 2022. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE GVD2013 GEODETIC DATUM, DERIVED FROM CONTROL MONUMENT NO. 019680071 HAVING AN ELEVATION OF 99.742m.

LEGEND:

- EXISTING PROPERTY LINE
- W W W --- EXISTING WATERMAIN
- ⊗ EXISTING V&VB
- ⊗ EXISTING VALVE CHAMBER
- S S S --- EXISTING SANITARY SEWER AND MAINTENANCE HOLE
- ST ST ST --- EXISTING STORM SEWER AND MAINTENANCE HOLE
- EXISTING GRADE
- OHW OHW --- EXISTING OVERHEAD HYDRO
- G G G --- EXISTING GAS
- B B B --- EXISTING BELL
- 4m x 10m CONSTRUCTION MUD MAT
- PROPOSED SILT FENCE AS PER OPSS 219.110
- SILT SACK PER DETAIL D1

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 MEASURES 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 (SEE PLAN FOR LOCATION).
 - INSTALL FILTER CLOTH ON DOWNSTREAM MANHOLE COVERS.
 - INSTALL SILTSACK FILTERS IN ALL CONCRETE CATCH BASIN 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 DEGRADED 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 SEEDS IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS). WHEN STORING SOIL ON SITE IN PILES THE CONTRACTOR MUST COVER EACH PILE WITH TARPS, 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 I - OPSS 2901 AND CANCOSB-15-1) AND WATER WITH EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE AT RATE IN 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 CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
 - DURING WET CONDITIONS, TRAILS OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
 - ANY 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 CLEAN CONDITION.
- 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.



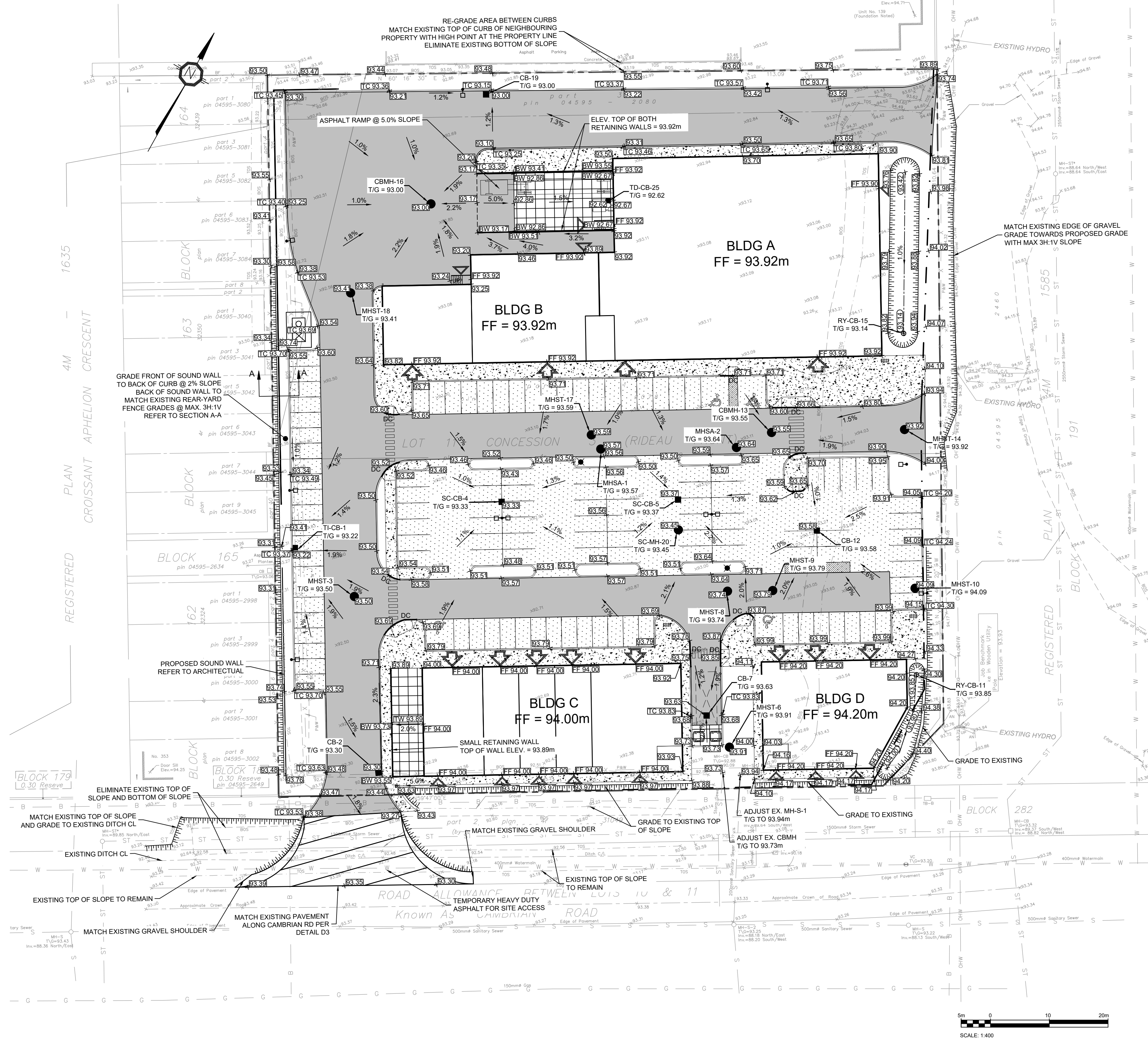
#	DATE	ISSUED FOR	DESCRIPTION	BY
1	2023-04-26	ISSUED FOR SPA		BV



PROJECT
3850 CAMBRIAN RD
BARRHAVEN, ONTARIO

DRAWING
EROSION/SEDIMENT CONTROL & EXISTING CONDITIONS PLAN

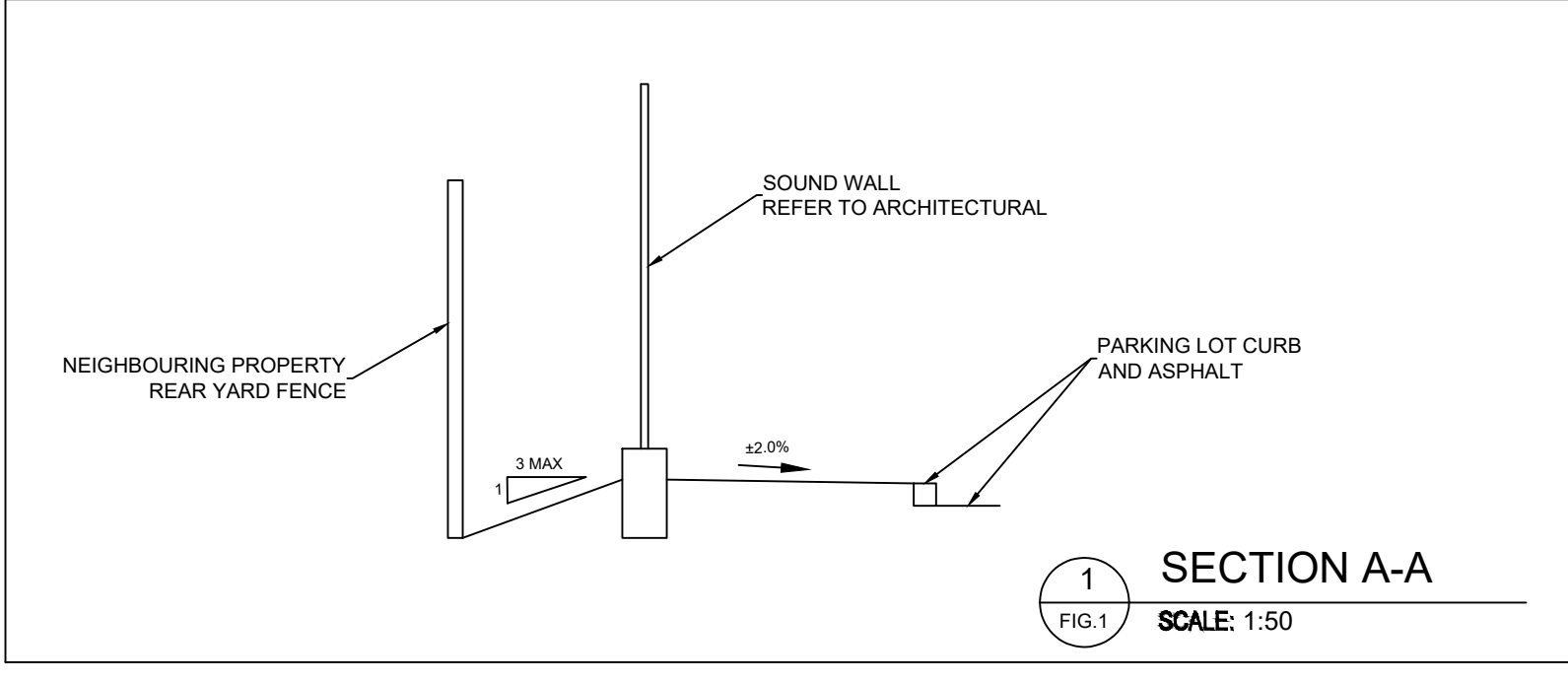
PROJECT NO. 478356	
PROJECT DATE 2022-08-19	
DRAWN BY BV	
CHECKED BY MT	
SCALE As indicated	



LEGEND:

<p>--- EXISTING PROPERTY LINE</p> <p>--- PROPOSED PROPERTY LINE AS PART OF THE GREENBANK RD RE-ALIGNMENT PROJECT</p> <p>--- PROPOSED DITCH/SWALE CENTERLINE</p> <p> TERRACE (3:1 MAX)</p> <p>--- EXISTING GRADE</p> <p>--- PROPOSED GRADE</p> <p>--- PROPOSED TOP OF WALL GRADE</p> <p>--- PROPOSED BOTTOM OF WALL GRADE</p> <p>--- PROPOSED FINISHED FLOOR ELEVATION</p> <p>--- PROPOSED TOP OF CURB ELEVATION</p> <p>--- PROPOSED CENTRELINE OF DITCH/SWALE GRADE</p> <p>--- PROPOSED SLOPE DIRECTION AND PERCENTAGE</p> <p>● PROPOSED STORM MAINTENANCE HOLE</p> <p>● PROPOSED SANITARY MAINTENANCE HOLE</p> <p>■ PROPOSED CATCH BASIN</p> <p>○ PROPOSED REAR YARD CATCH BASIN AS PER CITY STD DWG S31</p> <p>■ PROPOSED TWIN INLET CATCH BASIN AS PER OPSD 705.020</p>	<p>--- PROPOSED LIGHT DUTY PAVEMENT</p> <p>--- PROPOSED HEAVY DUTY PAVEMENT</p> <p>--- PROPOSED TEMPORARY HEAVY DUTY PAVEMENT</p> <p>--- PROPOSED CONCRETE SIDEWALK</p> <p>--- PROPOSED CONCRETE STRUCTURAL SLAB PER STRUCTURAL</p> <p>--- PROPOSED CONCRETE CURB</p> <p>--- PROPOSED DEPRESSED CONCRETE CURB WITH TWSI PER CITY STD DWG SC7.3</p> <p>--- PROPOSED LIGHT STANDARD</p>	<p>--- PROPOSED GRADE</p> <p>--- PROPOSED TOP OF WALL GRADE</p> <p>--- PROPOSED BOTTOM OF WALL GRADE</p> <p>--- PROPOSED FINISHED FLOOR ELEVATION</p> <p>--- PROPOSED TOP OF CURB ELEVATION</p> <p>--- PROPOSED CENTRELINE OF DITCH/SWALE GRADE</p> <p>--- PROPOSED SLOPE DIRECTION AND PERCENTAGE</p> <p>● PROPOSED STORM MAINTENANCE HOLE</p> <p>● PROPOSED SANITARY MAINTENANCE HOLE</p> <p>■ PROPOSED CATCH BASIN</p> <p>○ PROPOSED REAR YARD CATCH BASIN AS PER CITY STD DWG S31</p> <p>■ PROPOSED TWIN INLET CATCH BASIN AS PER OPSD 705.020</p>
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- NOTES: GENERAL**
- 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 INCLUDED.
 - 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.
 - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSD 206, 310 & 314. MATERIALS TO OPSD 1001, 1003 & 1010.
 - 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.
 - 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 DIGGS 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.
 - AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK AND ACTIVITIES WITH OTHER TRADES AND CONTRACTORS.
 - 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 SUFFICIENT NUMBER OF FENCES, BARRIERS, POSTERS, GUARDS AND OTHERS TO ENSURE SAFETY.
 - NECESSARY CONVENIENCES FOR THE COMPLETION OF WORK SUCH AS HEATING, LIGHTING, VENTILATION ETC.
 - 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.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - 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.
 - ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
 - 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.
 - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS. SITE PREPARATION INCLUDES CLEARING, GRUBBING, STRIPPING OF TOPSOIL, DEMOLITION, REMOVAL OF UNSUITABLE MATERIALS, CUT, FILL AND ROUGH GRADING OF ALL AREAS TO RECEIVE FINISHED SURFACES.
 - 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.
 - CURBS TO BE BARRIER, CONSTRUCTED AS PER OPSD 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.
 - DEPRESSED CURBS TO BE MOUNTABLE, CONSTRUCTED AS PER OPSD 600.100.
 - LIGHT DUTY AND HEAVY DUTY ASPHALT PAVEMENTS TO BE CONSTRUCTED AS PER TABLE ON DRAWING C103.
 - TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE CONSTRUCTED AS PER DETAIL D3 ON DRAWING C104.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - 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.
 - CONTRACTOR TO ENSURE MITIGATION MEASURES ARE IMPLEMENTED TO REDUCED THE RISK OF GROUND CONTAMINATION FROM PETROLEUM PRODUCTS.
 - THE CONTRACTOR MUST ENSURE THE FOLLOWING MEASURES ARE IMPLEMENTED REGARDING THE HANDLING OF CONCRETE:
 - 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.
 - MIXING CONCRETE SHOULD NOT BE CARRIED OUT WITHIN 30 METERS OF A WATERCOURSE OR WETLAND AND SHOULD TAKE PLACE OUTSIDE OF THE WORK SITE.
 - 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.
 - THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED SURPLUS MATERIALS THAT WILL BE REQUIRED TO BE DISPOSED OFFSITE BE STOCKPILED TEMPORARILY FOR SAMPLING PRIOR BEING LOADED OFFSITE.
 - MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 - TRENCHING, BACKFILLING AND COMPACTING MUST CONFORM TO OPSD 401.
 - DEWATERING OF PIPELINE, UTILITY AND ASSOCIATED STRUCTURE EXCAVATIONS TO BE COMPLETED AS PER OPSD 517.
 - THE CONTRACTOR MUST CONTROL SURFACE RUNOFF FROM PRECIPITATION DURING CONSTRUCTION.
 - FOR ALL GEOTECHNICAL WORK, CONTRACTOR TO REFER TO "GEOTECHNICAL INVESTIGATION REPORT, PROPOSED COMMERCIAL DEVELOPMENT, 3850 CAMBRIAN RD, NEPEAN, OTTAWA, ONTARIO, BY GEOTERRE LIMITED, DATED APRIL 6, 2023".
 - 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.
 - 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 OPSD 310. LANDSCAPE AREAS TO BE REINSTATED WITH 150 mm OF TOPSOIL AND SOD IN ACCORDANCE WITH OPSD 802 AND OPSD 803.
 - 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.
 - CONSTRUCT SIDEWALK EXPANSION JOINTS & CONTROL JOINTS AS PER OPSD 310.020.
 - CONSTRUCT CONCRETE SIDEWALK AS PER OPSD 310.020 AND OPSD 351. TACTILE WALKING SURFACE INDICATORS PER OPSD 351.
 - DISPOSE OF CONTAMINATED MATERIALS AT APPROPRIATE OFF-SITE FACILITY THAT MEETS ALL REGULATORY REQUIREMENTS.
 - 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.
 - 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.
 - DECONTAMINATE EQUIPMENT AFTER WORKING IN POTENTIALLY CONTAMINATED WORK AREAS AND PRIOR TO SUBSEQUENT WORK OR TRAVEL ON CLEAN AREAS.
 - 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.
 - CONTRACTOR IS 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.
 - CITY 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 CITY OF OTTAWA STAFF.



PAVEMENT STRUCTURES			
MATERIAL	LIGHT DUTY	HEAVY DUTY	COMPACTION
SURFACE LAYER : HL3	40 mm	40 mm	≥ 92%*
BASE LAYER : HL8	40 mm	60 mm	≥ 92%*
GRANULAR BASE : OPSS MUNI 1010 GRANULAR A	200 mm	300 mm	100%**
GRANULAR SUB-BASE : EXISTING GRANULAR BASE PLACED DURING INITIAL SITE GRADING	min. 350 mm	min. 350 mm	100%**

*MINIMUM PAVEMENT COMPACTION BASED ON MAXIMUM RELATIVE DENSITY, PER OPSD MUNI 310
**OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY
SOURCE: GEOTECHNICAL INVESTIGATION REPORT, PROPOSED COMMERCIAL DEVELOPMENT, 3850 CAMBRIAN RD, NEPEAN, OTTAWA, ONTARIO, BY GEOTERRE LIMITED, DATED APRIL 6, 2023

Choice Properties
REALTY

PROJECT	3850 CAMBRIAN RD		
DRAWING	GRADING PLAN		
PROJECT NO:	478356		
PROJECT DATE:	2022-08-19		
DRAWN BY:	B.V.		
CHECKED BY:	MT		
SCALE:	As indicated		

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

SILT SACK DETAIL

PARSONS D1

FRAME & PLATE ICD

PARSONS D2

NEW TO EXISTING PAVEMENT PERPENDICULAR TRANSITION TREATMENT

PARSONS D3

PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER

OPSD 701.010

PRECAST CONCRETE MAINTENANCE HOLE 1800mm DIAMETER

OPSD 701.012

MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES

OPSD 701.021

PRECAST CONCRETE CATCH BASIN 600x600mm

OPSD 705.010

FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION

OPSD 802.010

CLASS B BEDDING

CLASS C BEDDING

OPSD 802.031

CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE

OPSD 1003.010

HEAVY DUTY "FISH" TYPE SQUARE CATCH BASIN COVER

OPSD 1006.020

SEWER SERVICE CONNECTIONS FOR FLEXIBLE MAIN SEWER PIPE (MODIFIED OPSD-1006.020)

OPSD 1006.020

STANDARD CIRCULAR SANITARY & COMBINED MAINTENANCE HOLE COVER

OPSD 1006.020

STANDARD CIRCULAR STORM MAINTENANCE HOLE COVER

OPSD 1006.020

CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD-800.110)

OPSD 800.110

SIDEWALK CONSTRUCTION JOINTS

OPSD 800.110

INSTALLATION OF CATCH BASIN WITH MONOLITHIC SIDEWALK AND CURB, BARRIER AND DEPRESSED CURB

OPSD 800.110

STANDARD CIRCULAR FRAME FOR MAINTENANCE HOLES (MODIFIED OPSD-800.110)

OPSD 800.110

CATCH BASIN MAINTENANCE HOLE COVER (MODIFIED OPSD-800.110)

OPSD 800.110

PRECAST CONCRETE TWIN INLET CATCH BASIN 600 x 1450mm

OPSD 705.020

CATCH BASIN CONNECTION FOR RIGID MAIN PIPE SEWER

OPSD 708.010

CONCRETE BARRIER CURB WITH SIDEWALK

OPSD 800.110

CATCH BASIN CONNECTION FOR FLEXIBLE MAIN PIPE SEWER

OPSD 708.030

COMBINED TRENCH (SEWER & SEWER SERVICES)

OPSD 800.110

CLAY SEAL FOR PIPE TRENCHES

OPSD 800.110

CATCH BASIN ELBOW FOR STREET YARD DITCHED PIPE AND LANDSCAPING APPLICATIONS

OPSD 800.110

PRIVATE ENTRANCE DETAIL - RURAL

OPSD 800.110

PRIVATE ENTRANCE DETAIL - RURAL

OPSD 800.110

TURNER FLEISCHER

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PARSONS

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NO.	DATE	ISSUED FOR	BY
1	2023-04-26	ISSUED FOR SPA	BV
2			
3			

Choice Properties

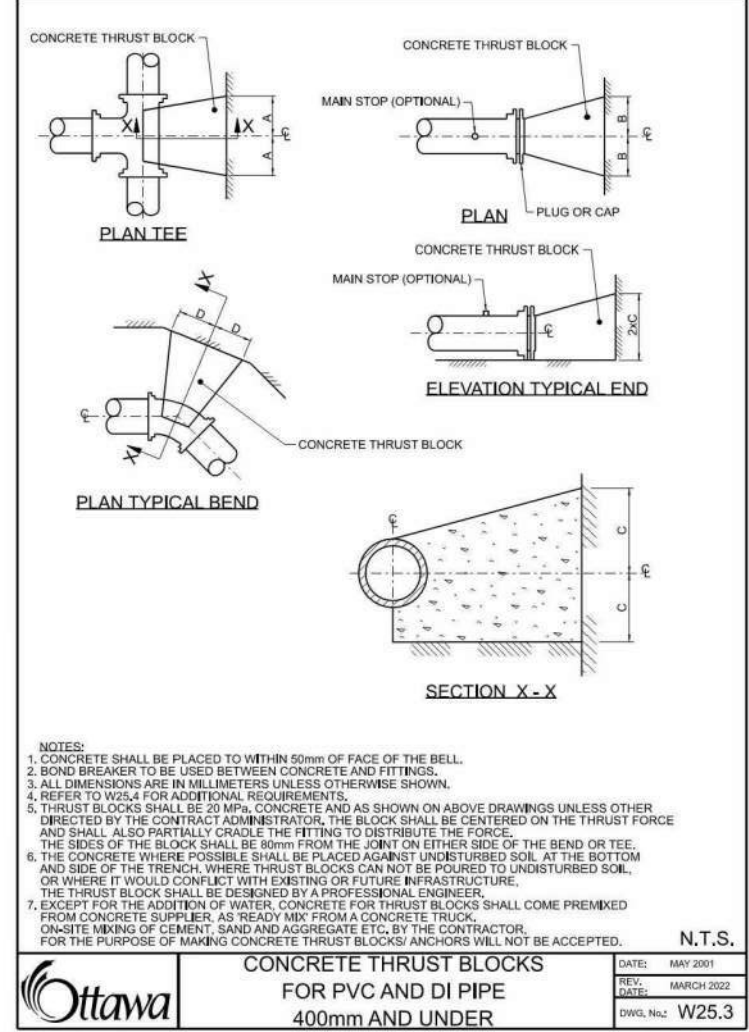
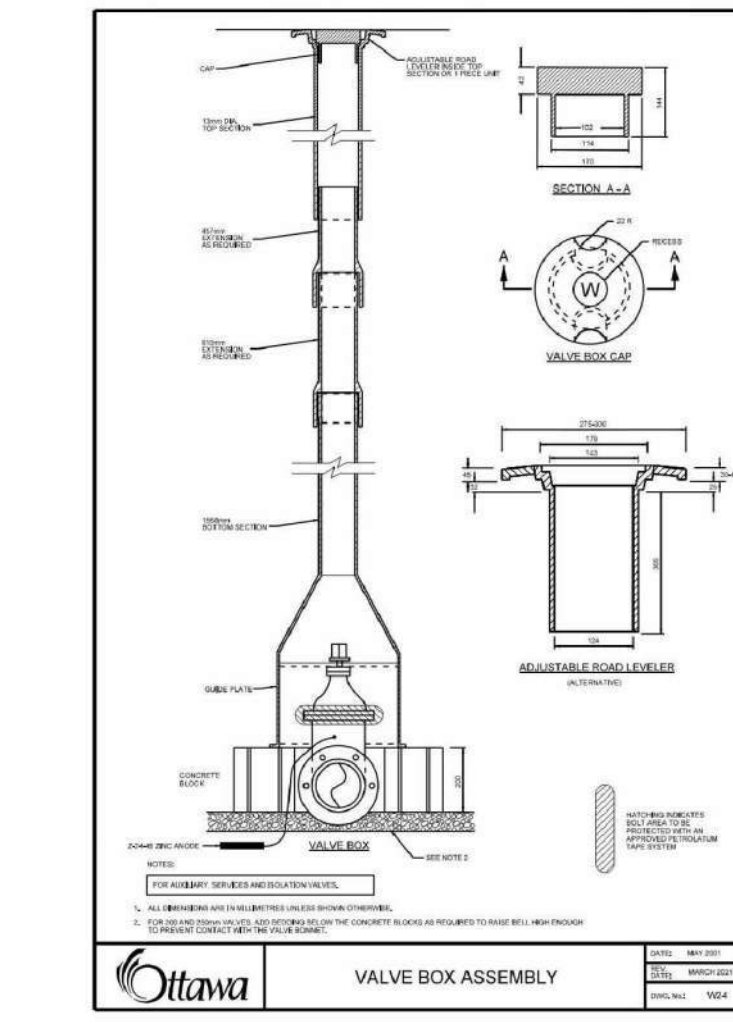
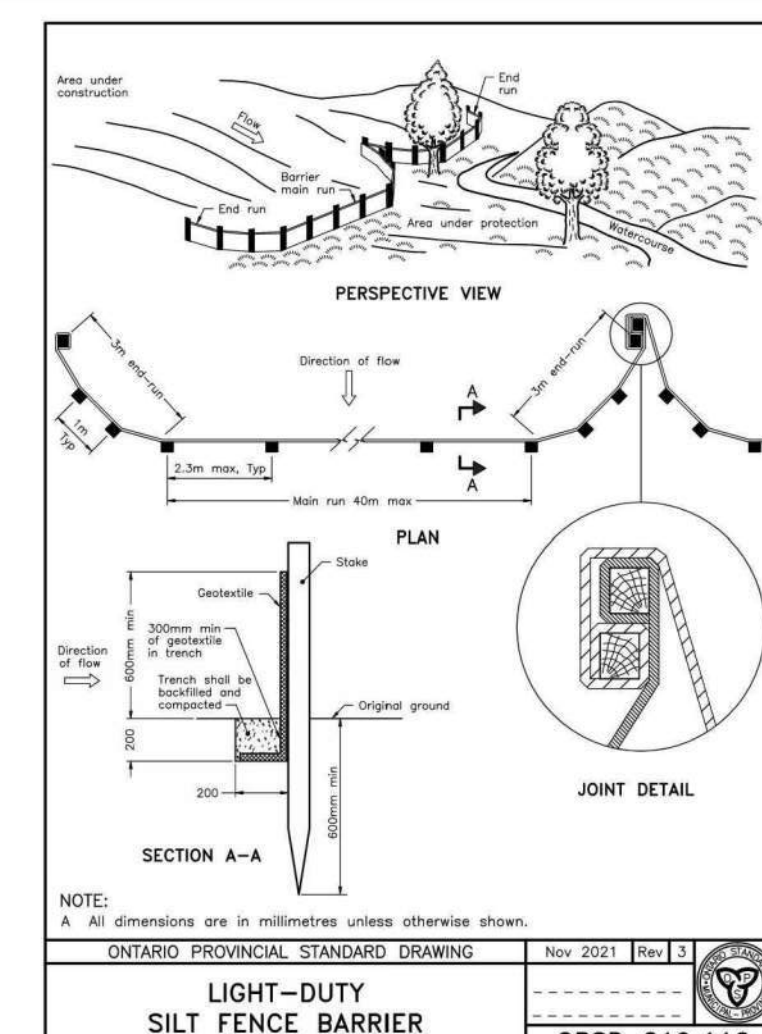
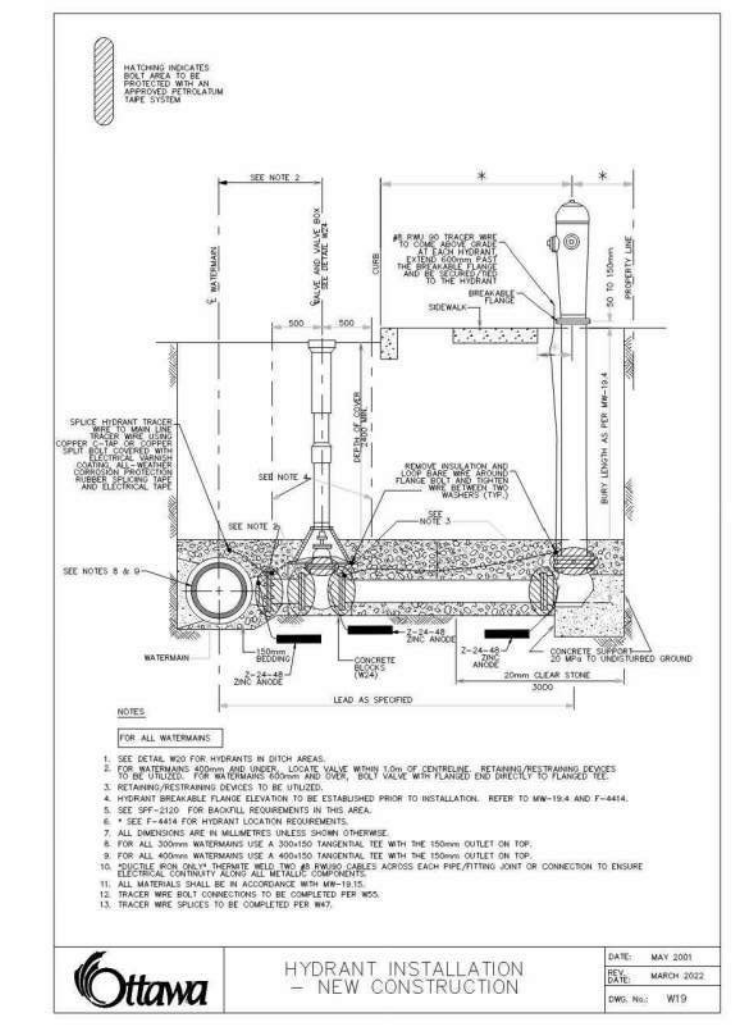
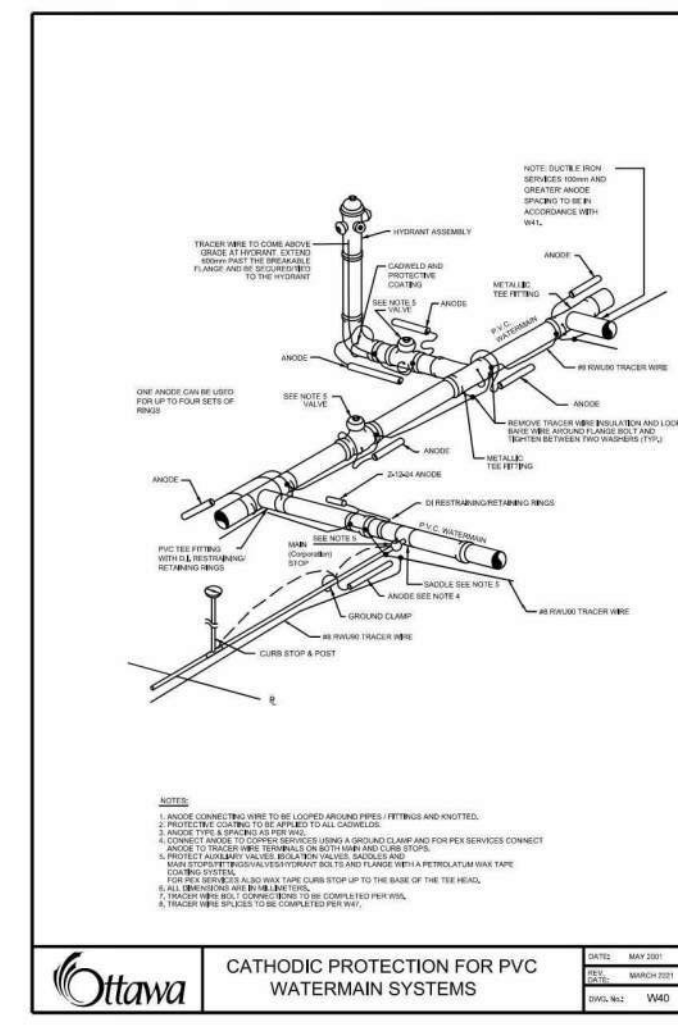
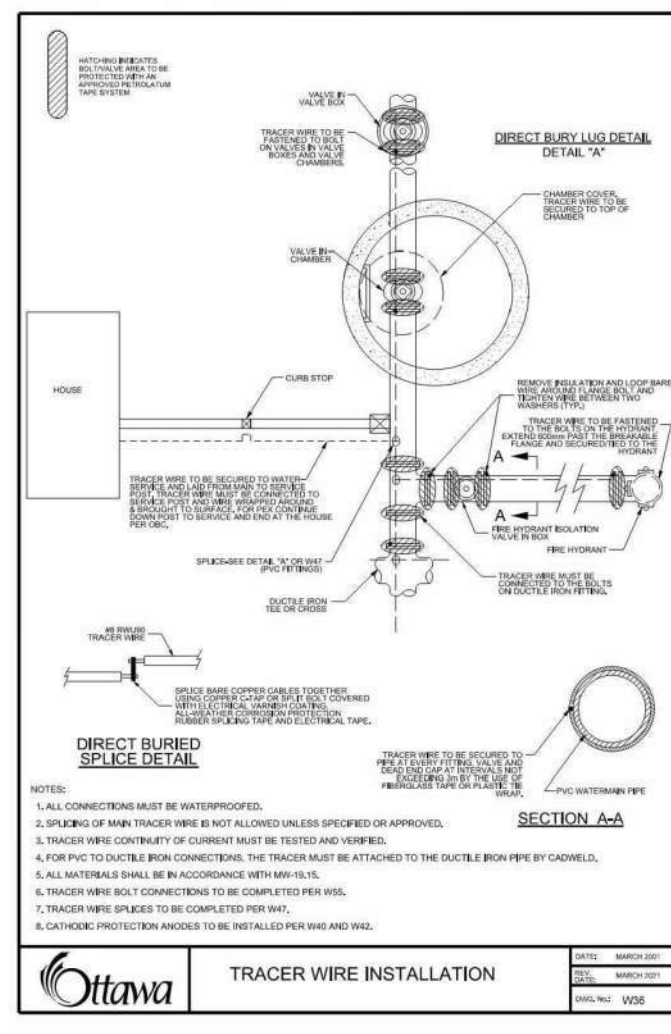
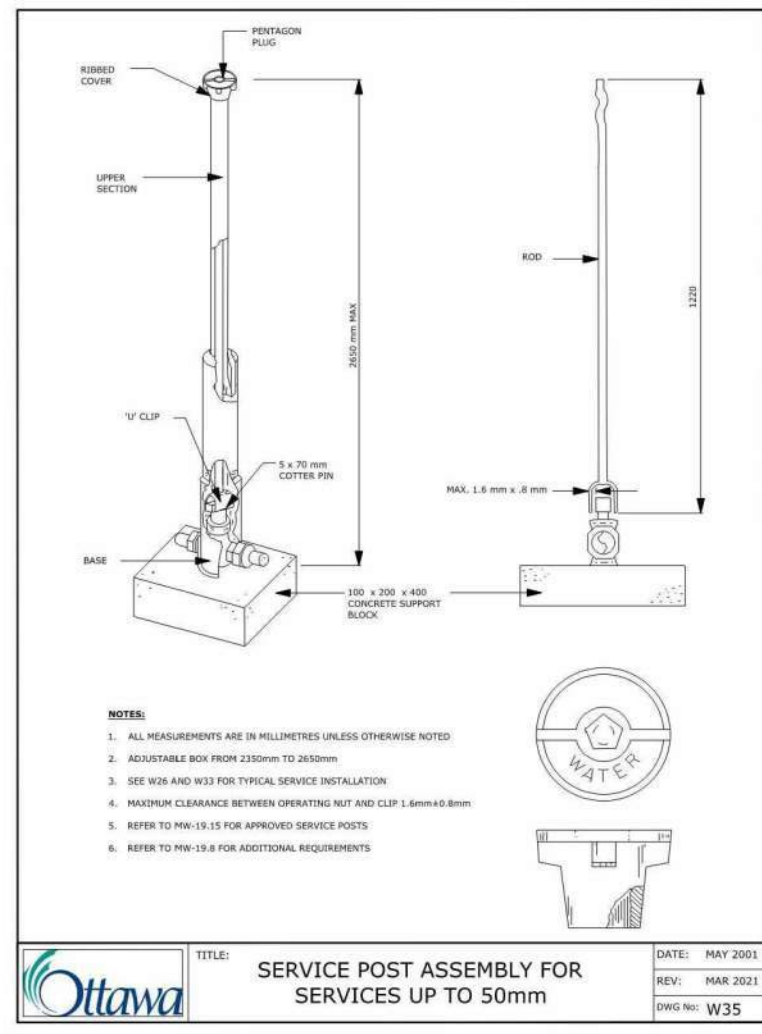
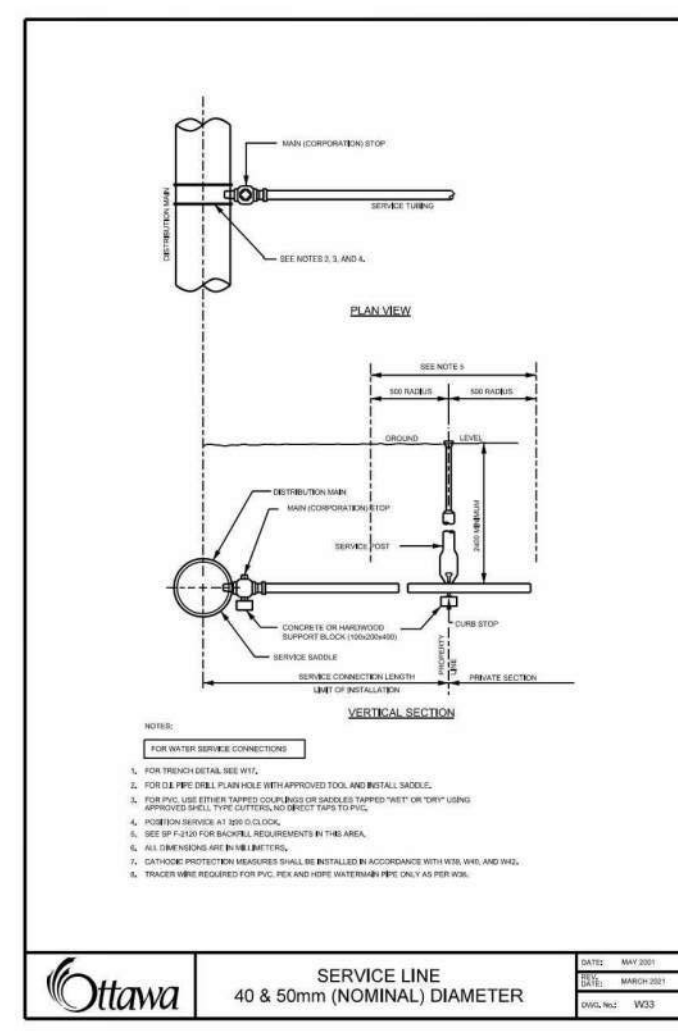
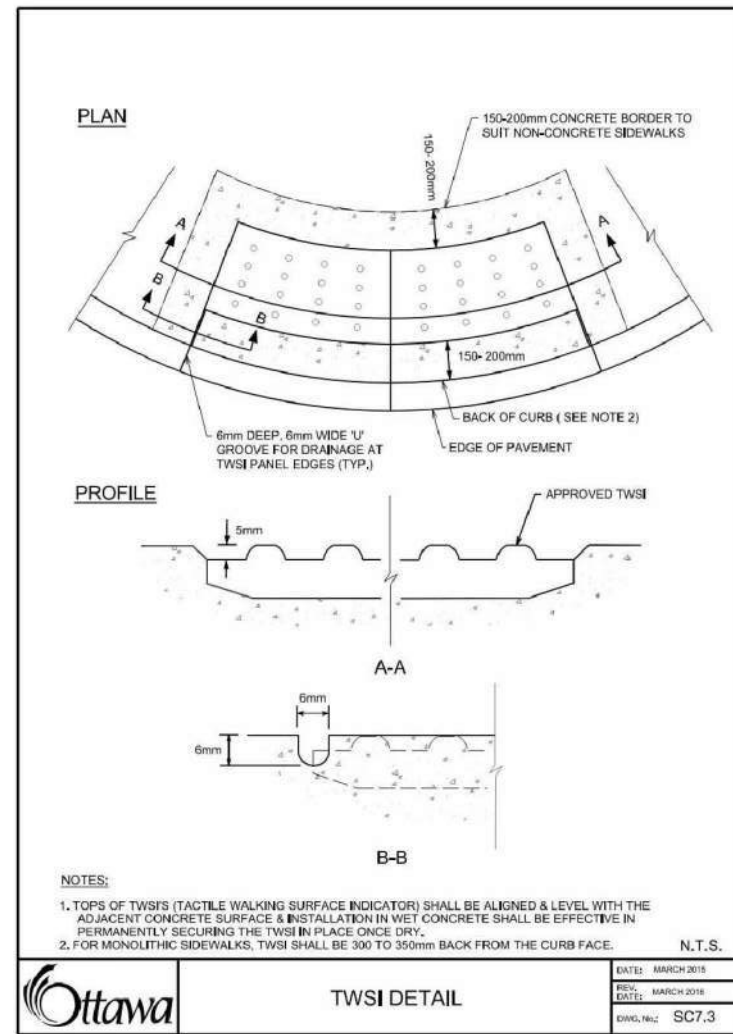
PROJECT: **3850 CAMBRIAN RD**
BARRHAVEN, ONTARIO

DRAWING: **DETAIL PAGE 1**

PROJECT NO: 478356
PROJECT DATE: 2022-08-19
DRAWN BY: BV
CHECKED BY: MT
SCALE: NTS

PROFESSIONAL ENGINEER
B. VILLENEUVE
10053987
2023-04-26
PROVINCE OF ONTARIO

DRAWING NO: **C104** REV: 1



THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER

1. SOIL DESCRIPTION: VERY FINE SANDS, SANDY CLAYS, CLAYS.
SOILS WITH TYPICAL BEARING STRENGTHS OF 100 TO 150 kPa

PIPE DIAMETER	A	B	C	D
100	200	200	200	200
150	300	300	300	300
200	400	400	400	400
250	500	500	500	500
300	600	600	600	600
400	1000	1000	1000	1000

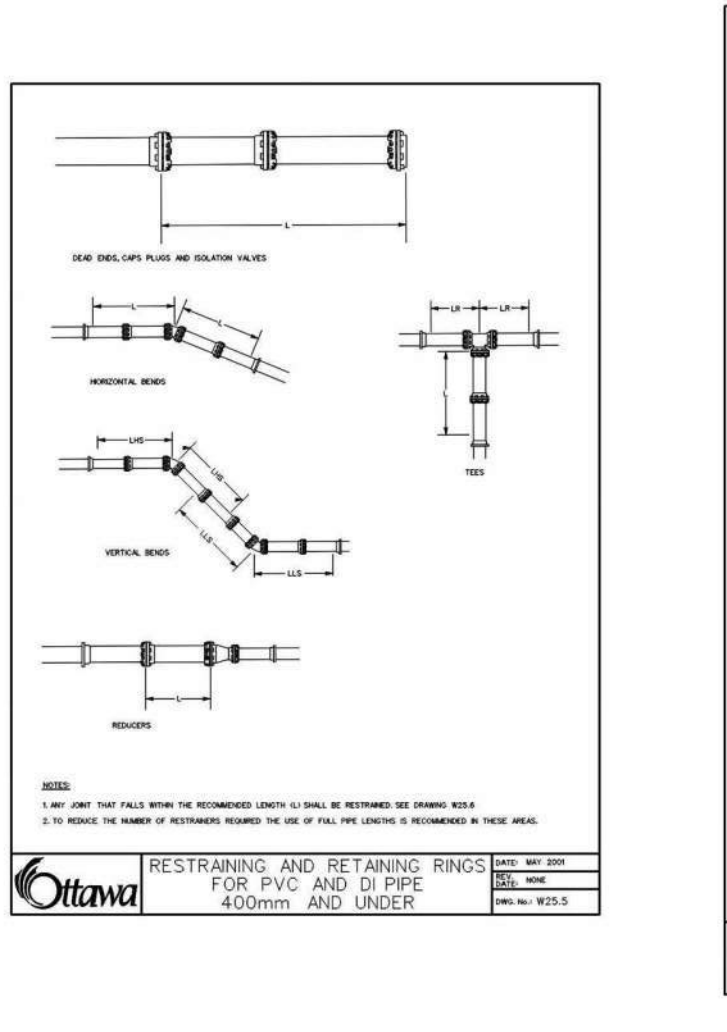
2. SOIL DESCRIPTION: TO SAND (SANDY) OR CLAYEY SAND GRAVELS.
SOILS WITH TYPICAL BEARING STRENGTHS OF 150 TO 200 kPa

PIPE DIAMETER	A	B	C	D
100	200	200	200	200
150	300	300	300	300
200	400	400	400	400
250	500	500	500	500
300	600	600	600	600
400	1000	1000	1000	1000

3. SOIL DESCRIPTION: SANDS, SANDS AND SANDS AND SANDS.
SOILS WITH TYPICAL BEARING STRENGTHS OF 200 kPa AND OVER

PIPE DIAMETER	A	B	C	D
100	100	100	100	100
150	200	200	200	200
200	300	300	300	300
250	400	400	400	400
300	500	500	500	500
400	600	600	600	600

Legend:
DATE: 08/20/2021
DRAWN BY: M. WILSON
CHECKED BY: M. WILSON
SCALE: 1:10
REV. NO.: 001

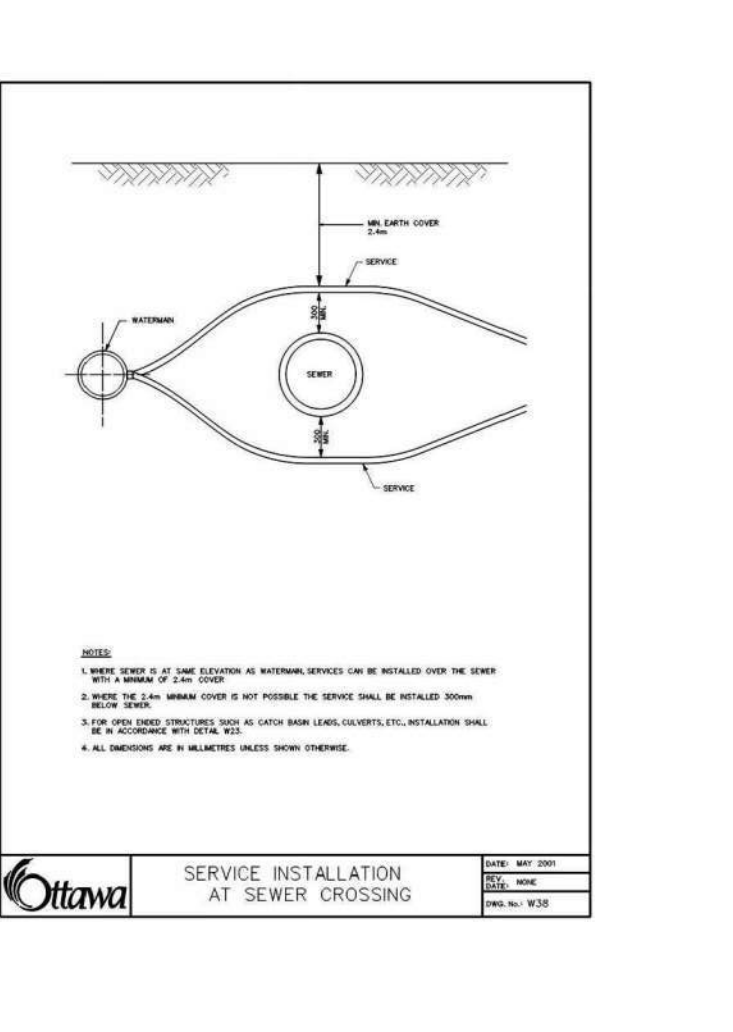


TABLES OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER

TABLE OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER

PIPE DIAMETER (RESTRAINED)	RESTRAINED LENGTHS (m)			
	100mm	150mm	200mm	250mm
100mm	1.5	1.5	1.5	1.5
150mm	1.5	1.5	1.5	1.5
200mm	1.5	1.5	1.5	1.5
250mm	1.5	1.5	1.5	1.5

Legend:
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ONTARIO PROVINCIAL STANDARD DRAWING
Nov. 2021 Rev. 1
LIGHT-DUTY SILT FENCE BARRIER
OPSD 219.110

1	2023-04-26	ISSUED FOR SPA	BY
#	DATE	DESCRIPTION	BY



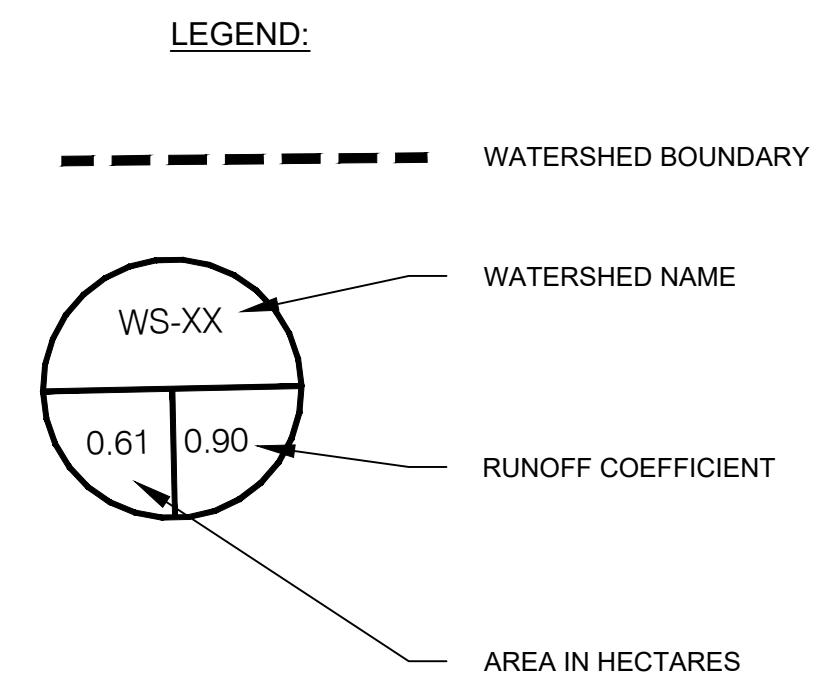
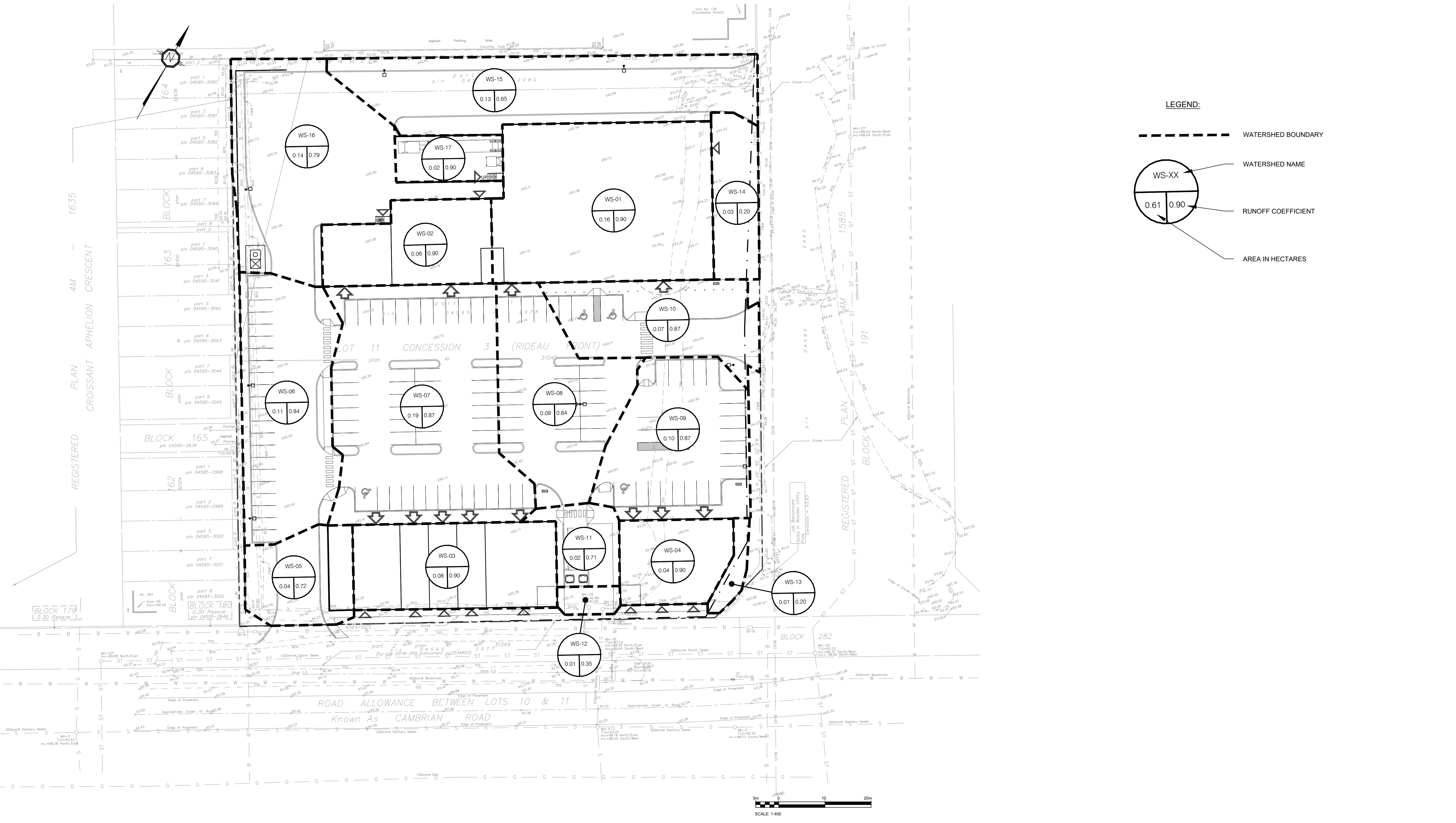
PROJECT
3850 CAMBRIAN RD
BARRHAVEN, ONTARIO

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DETAIL PAGE 2

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478356
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PROJECT
 3850 CAMBRIAN RD
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DRAWING
 POST-DEVELOPMENT
 DRAINAGE AREAS

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