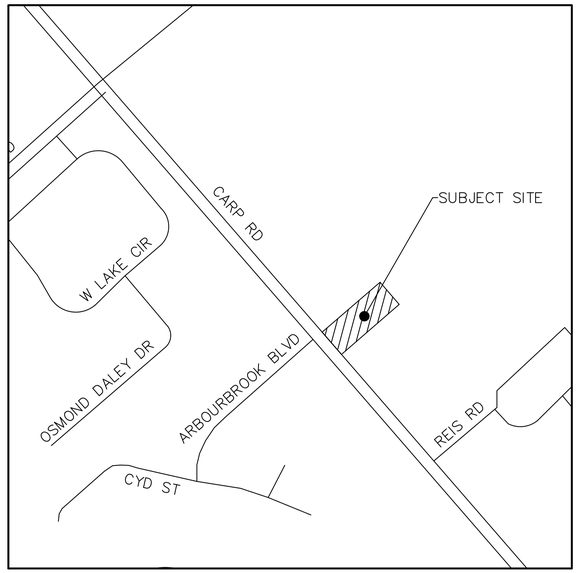
Multi-Tenant Commercial Development
2822 Carp Rd, Carp
City of Ottawa



Drawing List

ND-1	NOTES AND DETAILS
SGS-1	SITE GRADING AND SERVICING PLAN
STM-1	PRE-DEVELOPMENT STORM CATCHMENT PLAN
STM-2	POST-DEVELOPMENT STORM CATCHMENT PLAN
EP-1	EROSION AND SEDIMENT CONTROL PLAN

CITY OF OTTAWA
110 LAURIER AVE W
OTTAWA, ONTARIO
K1P 1J1

ARGUE CONSTRUCTION LTD.
2900 CARP RD
CARP, ONTARIO
K0A 1L0

PEARSON
ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

19124 – 2822 CARP RD – 0 – DECEMBER 2020

1. DRAWINGS

A. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE SPECIFIC DETAIL DWGS.

B. THE STANDARD DRAWINGS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS, (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.

C. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED 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 ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.

B. ALL DIMENSIONS 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.

3. GENERAL

A. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE WISHES WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL 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.

B. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

C. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.

D. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 200mm OF APPROVED TOPSOIL AND NURSERY SOD UNLESS NOTED OTHERWISE.

4. PAVEMENT

A. THE PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING (REFER TO GEOTECHNICAL INVESTIGATION PREPARES BY GEMTEC FOR PAVEMENT STRUCTURE DETAILS):

ASPHALT PARKING LOT

- 50mm HOT MIX ASPHALT (SUPERPAVE 12.5) WITH PG 58-34 ASPHALT CEMENT
- 150mm GRANULAR 'A' BASE
- 300mm GRANULAR 'B' TYPE II SUBBASE

GRAVEL SURFACES

- 310mm GRANULAR 'A' BASE
- 550mm GRANULAR 'B' TYPE II SUBBASE

5. PAVEMENT STRUCTURE

REFERENCED FROM GEOTECHNICAL REPORT COMPLETED BY PATTERSON GROUP DATED FEBRUARY 26, 2020

CAR PARKING AREAS

50mm WEAR COURSE – HL3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
150mm BASE – OPSS GRAN A CRUSHED STONE
300mm SUBBASE – OPSS GRAN B TYPE II

6. SEPTIC DESIGN NOTES:

DESIGN DAILY SEWAGE FLOW

CATEGORY	QUANTITY	FLOW
WATER CLOSETS	7	6650 L/DAY
FUEL OUTLET	0	0 L/DAY
VEHICLES SERVED*	26	520 L/DAY
TOTAL FLOW		Q = 7170 L/DAY

*ASSUME 2 CARS/BAY/DAY

SEPTIC SYSTEM

TYPE A DISPERSAL BED AS PER OBC 8.7.7.

SEPTIC TANK

MINIMUM SIZE OF SEPTIC TANK TO BE 21,510 L (O.B.C 8.2.2.3.(1))
RECOMMENDED SIZE OF SEPTIC TANK TO BE 23,00 L

REQ'D TYPE A DISPERSAL BED STONE AREA (O.B.C. 8.7.7.1.(6))

A = Q/50
A = 7170 / 50
A = 143.4m²

PROVIDED AREA BED STONE AREA

A = 12.0m x 12.5m
A = 150.0m²

REQ'D SAND AREA OF TYPE A DISPERSAL BED (O.B.C. 8.7.7.1.(5))

A = QT/400
A = 7170 x 20 / 400
A = 358.5m²

PROVIDED SAND AREA OF TYPE A DISPERSAL BED

A = 436.8m²

* GEO-TECHNICAL ENGINEER TO REVIEW TYPE A DISPERSAL BED AREA SUBGRADE PRIOR TO SEPTIC BED INSTALLATION

PROPOSED SEPTIC BED SHALL HAVE A MINIMUM TOPSOIL COVER OF 150mm AND A MAXIMUM COVER OF 500mm

TERTIARY TREATMENT REQUIRED

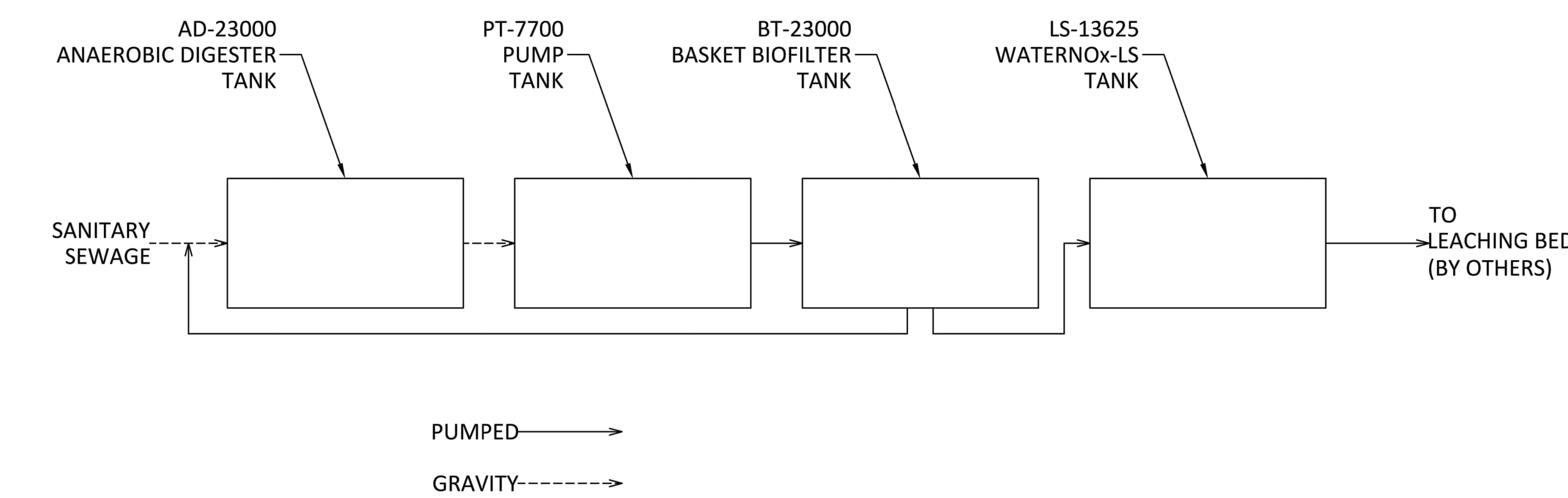
DISTRIBUTION PIPE

DISTRIBUTION PIPE TO BE INSTALLED WITHIN A LAYER OF STONE AS PER O.B.C. 8.7.3.3.(5). CONTRACTOR TO ENSURE THAT ALL TOPSOIL IS STRIPPED FROM SEPTIC BED AREA. ALL HEAVY EQUIPMENT TO BE KEPT OFF LEACHING BED AREA. BASE OF BED TO BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF DISTRIBUTION PIPING.

REINSTATEMENT:

ALL TOPSOIL FROM CONSTRUCTION AREAS TO BE STOCKPILED AND THEN REPLACED TO A MINIMUM DEPTH OF 150mm. SOD AND/OR SEED AND MULCH TO BE APPLIED TO ALL DISTURBED AREAS. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH LATEST EDITION OF THE ONTARIO BUILDING CODE (PART 8). ALL SURFACE DRAINAGE, FOOTING DRAINS, ROOF LEADERS AND SUMP PUMP DRAINS MUST BE DIRECTED AWAY FROM BED.

PRELIMINARY SCHEMATIC ONLY



NOTES:

1. THIS IS A PRELIMINARY SCHEMATIC FOR A WATERLOO BIOFILTER SEWAGE TREATMENT SYSTEM. THIS IS FOR PLANNING PURPOSES ONLY AND IS NOT AN ENGINEERED DESIGN.

2. THE PEAK SEWAGE FLOW FOR THIS FACILITY IS 7,710 L/day. PEAK FLOWS ARE EXPECTED TO OCCUR INFREQUENTLY.

3. THE RAW SEWAGE IS EXPECTED TO HAVE THE FOLLOWING CHARACTERISTICS:

BOD = 190 mg/L
TSS = 210 mg/L
TKN = 50 mg/L
IT IS ALSO ASSUMED THAT THERE IS SUFFICIENT ALKALINITY FOR THOROUGH NITRIFICATION.

4. WASTEWATER FROM THE FACILITY FLOWS BY GRAVITY INTO AN AD-23000 SINGLE COMPARTMENT ANAEROBIC DIGESTER TANK. THE INLET OF THE TANK IS EQUIPPED WITH AN INNERTUBE. THE OUTLET IS EQUIPPED WITH AN EFFLUENT FILTER.

5. THE ANAEROBIC DIGESTER TANK EFFLUENT FLOWS BY GRAVITY INTO A PT-7700 PUMP TANK. THE PUMP TANK IS EQUIPPED WITH A SUBMERSIBLE EFFLUENT PUMP OPERATING ON A TIMER.

6. THE PUMP IN THE PUMP TANK DOSES THE SEWAGE TO A BT-23000 SINGLE COMPARTMENT BASKET BIOFILTER TANK HOUSING TWO (2) BASKETS FILLED WITH BIOFILTER MEDIUM. THE SEWAGE IS EVENLY DISTRIBUTED OVER THE SURFACE OF THE MEDIUM AND TREATED AS IT TRICKLES THROUGH THE INTERIOR OF THE MEDIUM. A SMALL, LOW VOLTAGE AIR FAN AND PASSIVE VENTING PROMOTES AEROBIC CONDITIONS. THE TANK IS EQUIPPED WITH TWO (2) SUBMERSIBLE EFFLUENT PUMPS OPERATING ON SEPARATE TIMERS.

7. THE FIRST PUMP IN THE BASKET BIOFILTER TANK RECIRCULATES A PORTION OF THE EFFLUENT TO THE INLET OF THE AD-23000.

8. THE SECOND PUMP IN THE BASKET BIOFILTER TANK PUMPS THE EFFLUENT TO A LS-13625 DOUBLE COMPARTMENT WATERNOx-LS TANK. THE FIRST COMPARTMENT OF THE TANK IS FILLED WITH DENITRIFYING MEDIUM. THE EFFLUENT FROM THE FIRST COMPARTMENT FLOWS BY GRAVITY INTO THE SECOND COMPARTMENT AND OVER TOP OF A BASKET FILLED WITH BIOFILTER MEDIUM. THE SECOND COMPARTMENT IS ALSO EQUIPPED WITH A SUBMERSIBLE EFFLUENT PUMP.

9. THE PUMP IN THE SECOND COMPARTMENT OF THE WATERNOx-LS TANK PUMPS THE FINAL EFFLUENT TO A LEACHING BED (BY OTHERS).

10. ALL PUMPS ARE RUN BY A WATERLOO SMART PANEL. THE WATERLOO SMART PANEL PROVIDES REMOTE MONITORING, CONTROL, AND DATA LOGGING OVER A STABLE WIRELESS CELLULAR NETWORK. THIS FUNCTIONALITY ALLOWS FOR REAL TIME OPERATIONAL ADJUSTMENTS TO OPTIMIZE SYSTEM PERFORMANCE. THE WATERLOO SMART PANEL ALSO IMMEDIATELY NOTIFIES THE SERVICE PROVIDER OF A PUMP FAILURE OR HIGH LEVEL ALARM, PROVIDING THEM WITH VITAL INFORMATION TO LIMIT SITE VISITS WHILE KEEPING THE SYSTEM OPERATING PROPERLY.

11. BY ADHERING TO BEST MANAGEMENT PRACTICES (PROVIDING THE APPROPRIATE STRENGTH SEWAGE, PERFORMING ROUTINE MAINTENANCE, LIMITING TOXINS ENTERING THE SYSTEM) THE WATERLOO BIOFILTER TREATMENT SYSTEM OUTLINED IN THIS SCHEMATIC IS DESIGNED FOR THE FOLLOWING EFFLUENT OBJECTIVES.

cBOD = 10 mg/L
TSS = 10 mg/L
TOTAL NITROGEN ≥ 75% REMOVAL

Waterloo BIOFILTER

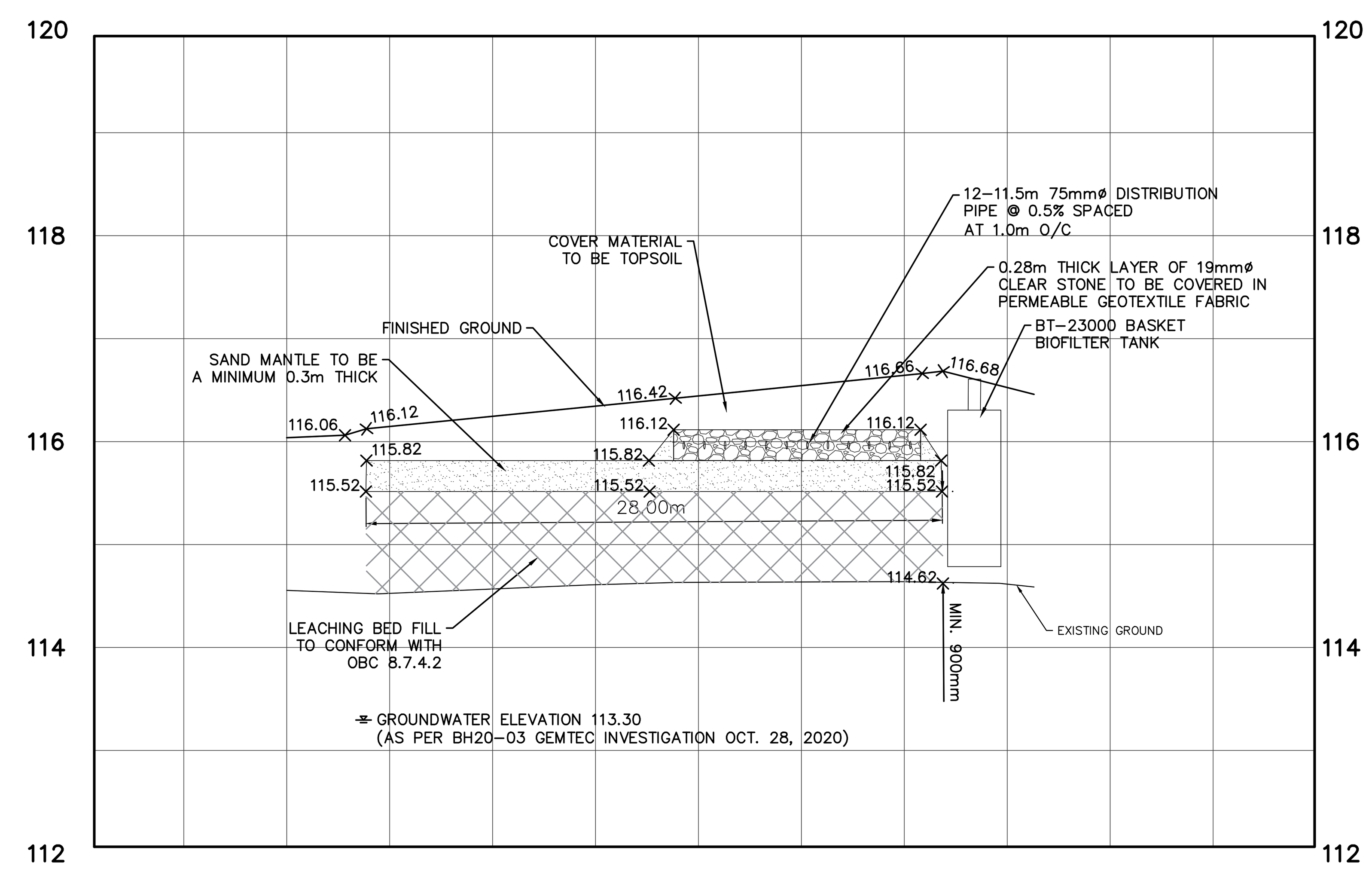
PO BOX 400, 143 DENNIS STREET, ROCKWOOD ON N0B 2K0
TEL: 519-856-0757 FAX: 519-856-0759
EMAIL: INFO@WATERLOO-BIOFILTER.COM

TITLE: PROCESS SCHEMATIC

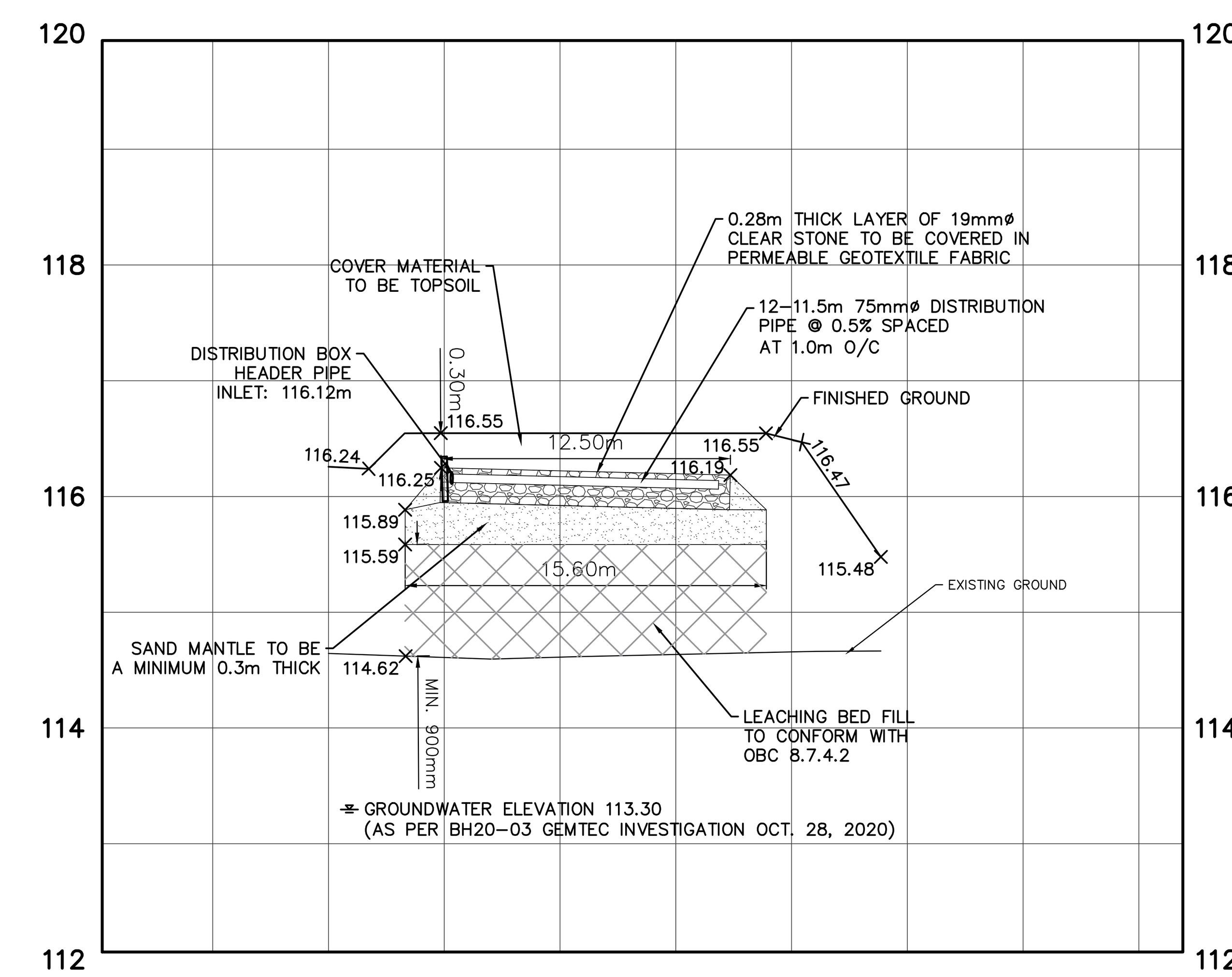
PROJECT: 2822 CARP ROAD - OTTAWA

FOR: PEARSON ENGINEERING

PROJECT NUMBER:	SEWAGE FLOW:	CONFIGURATION:	DATE:
ON-C-2016-0190-B	7,170 L/day	BASKETS w/ LS	DECEMBER 4, 2020
DRAWN BY: B. STRAW	PERCOLATION RATE: N/A	DISCHARGE: TYPE A	1 OF 1



SECTION C–C
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



SECTION D–D
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50

NO.	REVISION NOTE	DATE	BY

BENCHMARK

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO BENCHMARK 68U001/CGVD28 GEODETIC DATUM.

BEARINGS ARE GRID, DERIVED FROM THE SOUTHWESTERLY LIMIT OF PART 1 PLAN 4R-30382 SHOWN TO BE N41°38'40"W THERON AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)

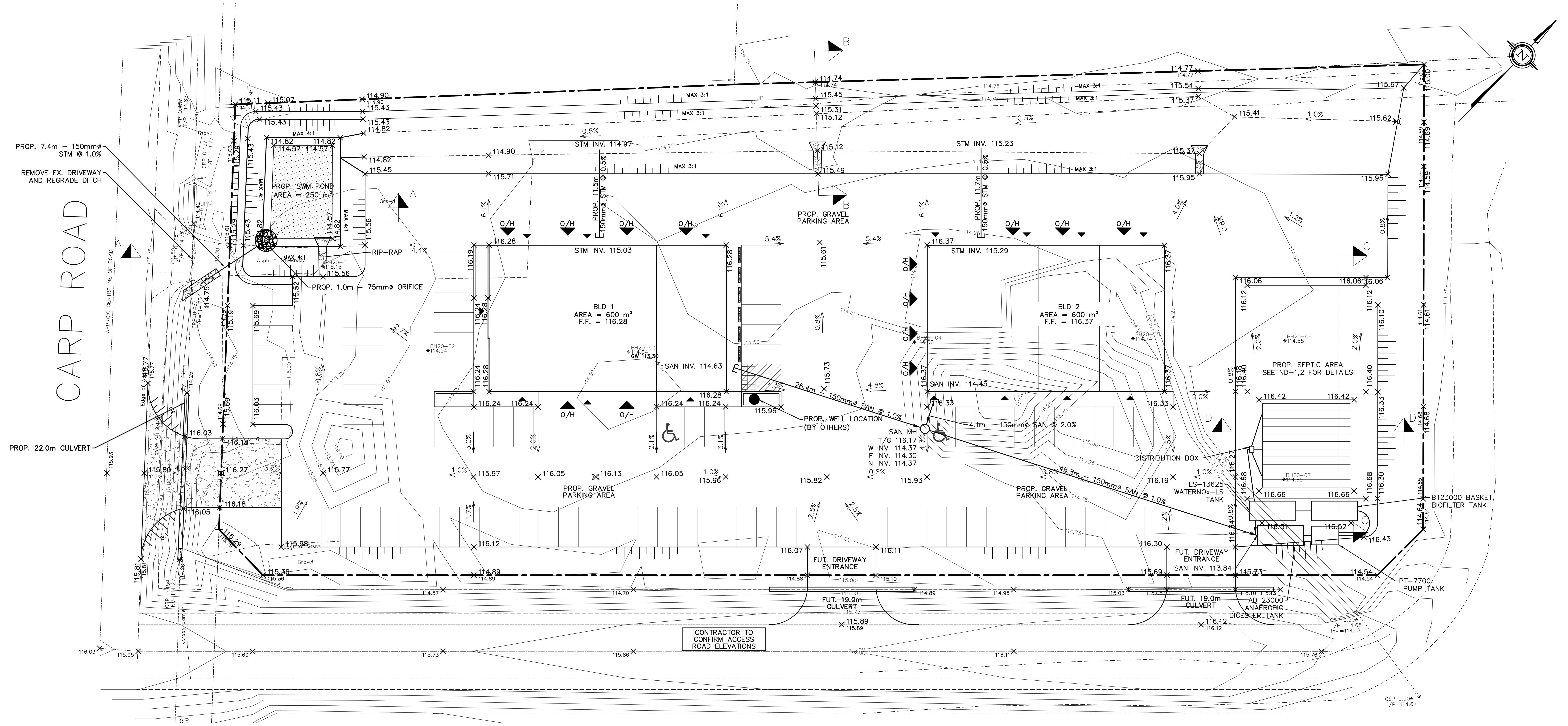
LICENSED PROFESSIONAL ENGINEER G. M. PEARSON 100061938 12/8/20 PROVINCE OF ONTARIO

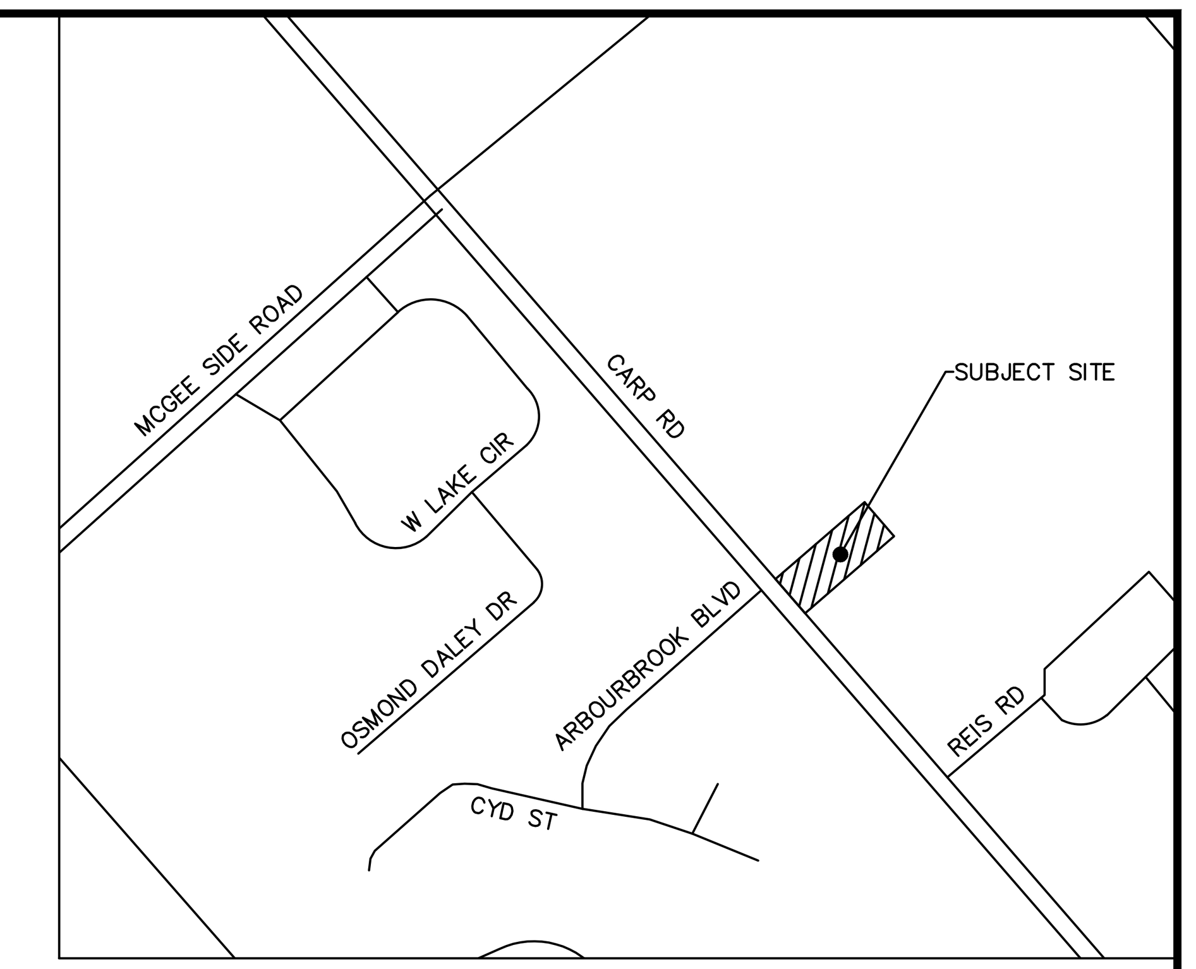
MULTI-TENANT COMMERCIAL BLDGS
2822 CARP ROAD
CITY OF OTTAWA

NOTES AND DETAILS

PEARSON ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	NW/MWD	HORIZ SCALE	1:300	PROJECT #	19124
DRAWN BY	NW	VERT SCALE	N/A	DRAWING #	ND-1
CHECKED BY	GMP	DATE	SEPTEMBER 2020	REVISION #	0

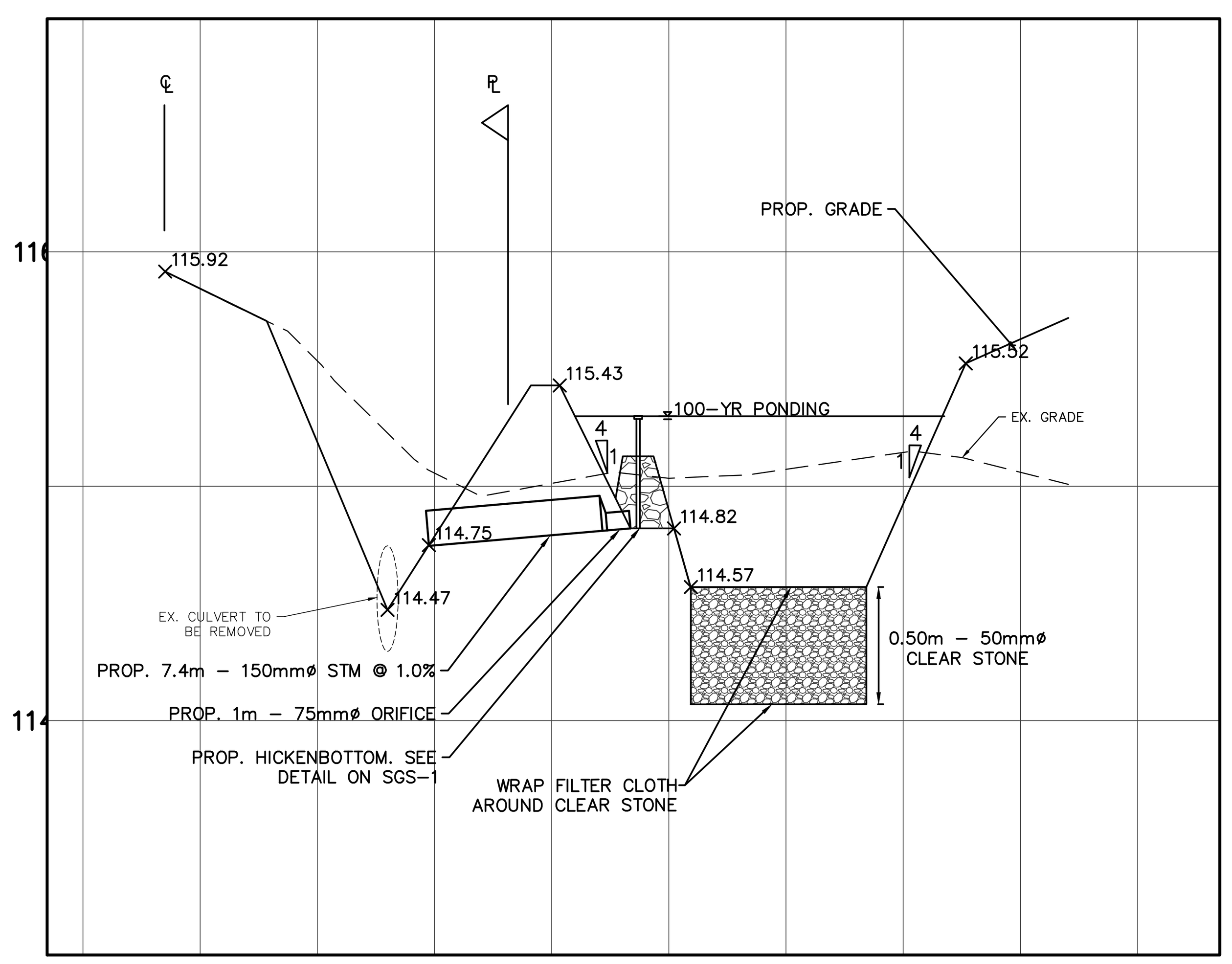




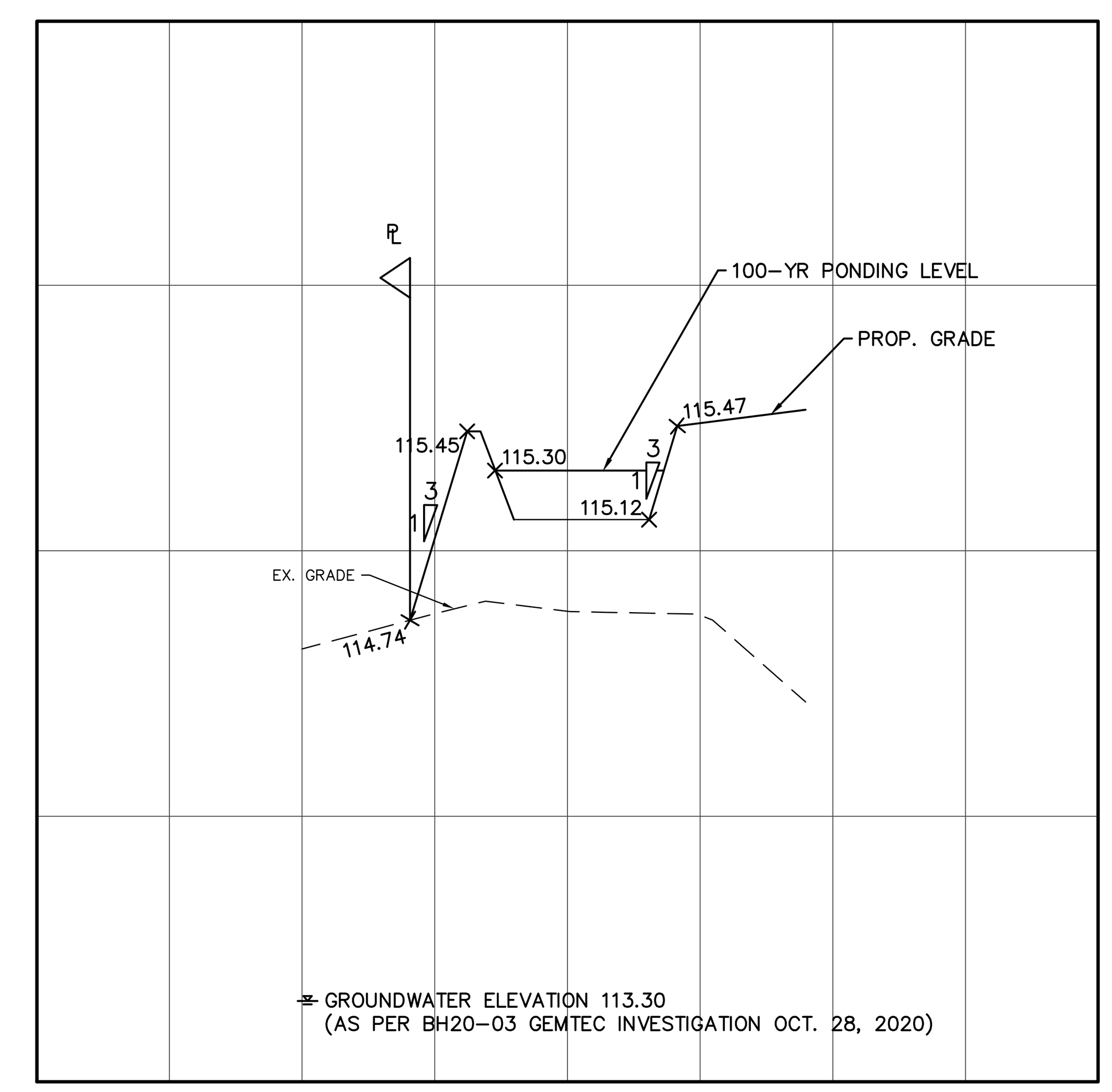
KEY MAP N.T.S

LEGEND

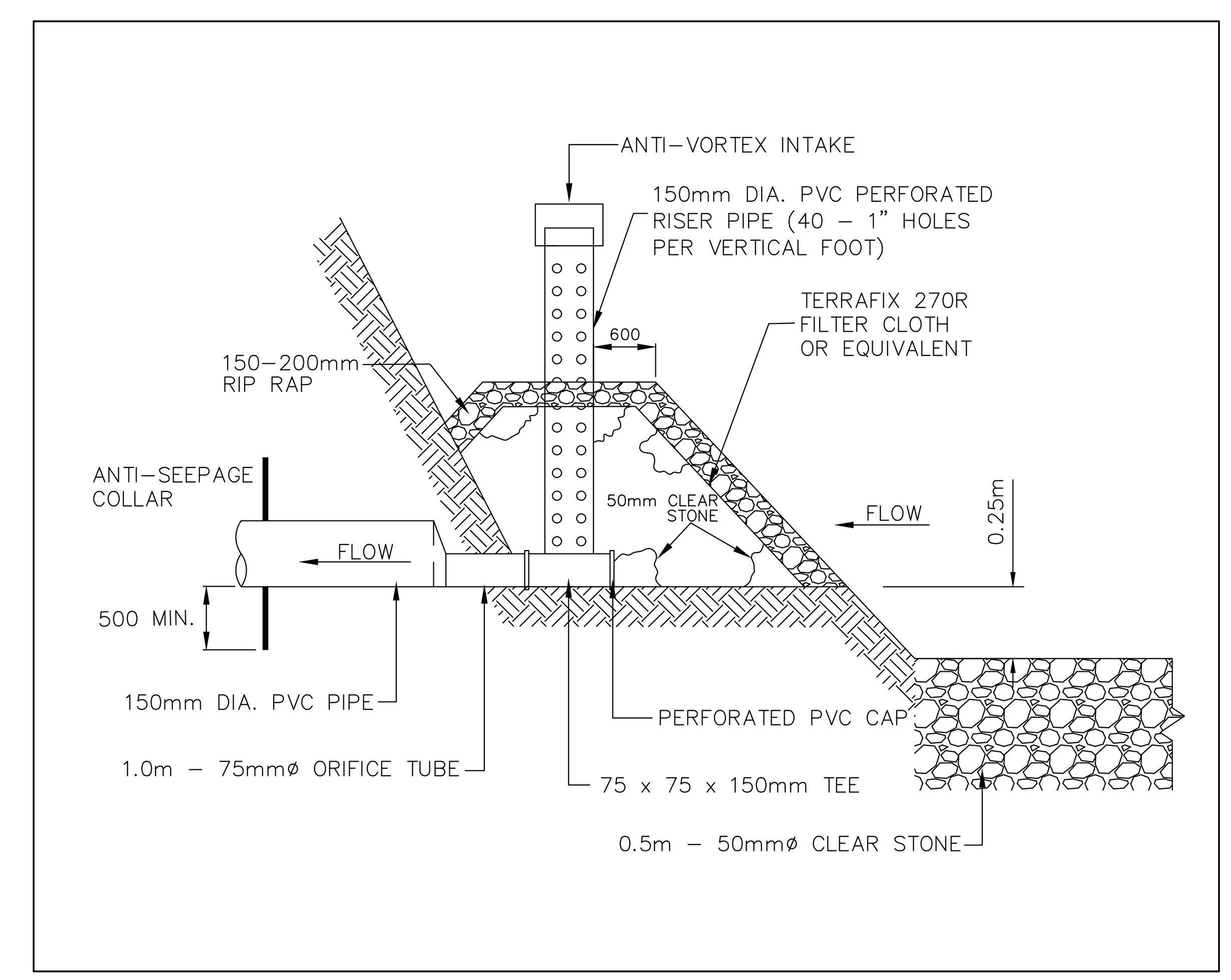
- SANITARY MANHOLE (MH)
- 254.63 / 254.09 — PROPOSED ELEVATION / EXISTING ELEVATION
- 1.5% — PROPOSED DIRECTION AND GRADE
-) (— HIGH POINT
- BORE HOLE NUMBER / EX. GROUND ELEVATION / GROUNDWATER ELEVATION
- INFILTRATION TRENCH
- EXTENT OF ASPHALT DRIVEWAY



SECTION A-A
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



SECTION B-B
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



HICKENBOTTOM DETAIL
N.T.S.

NO.	REVISION NOTE	DATE	BY

BENCHMARK

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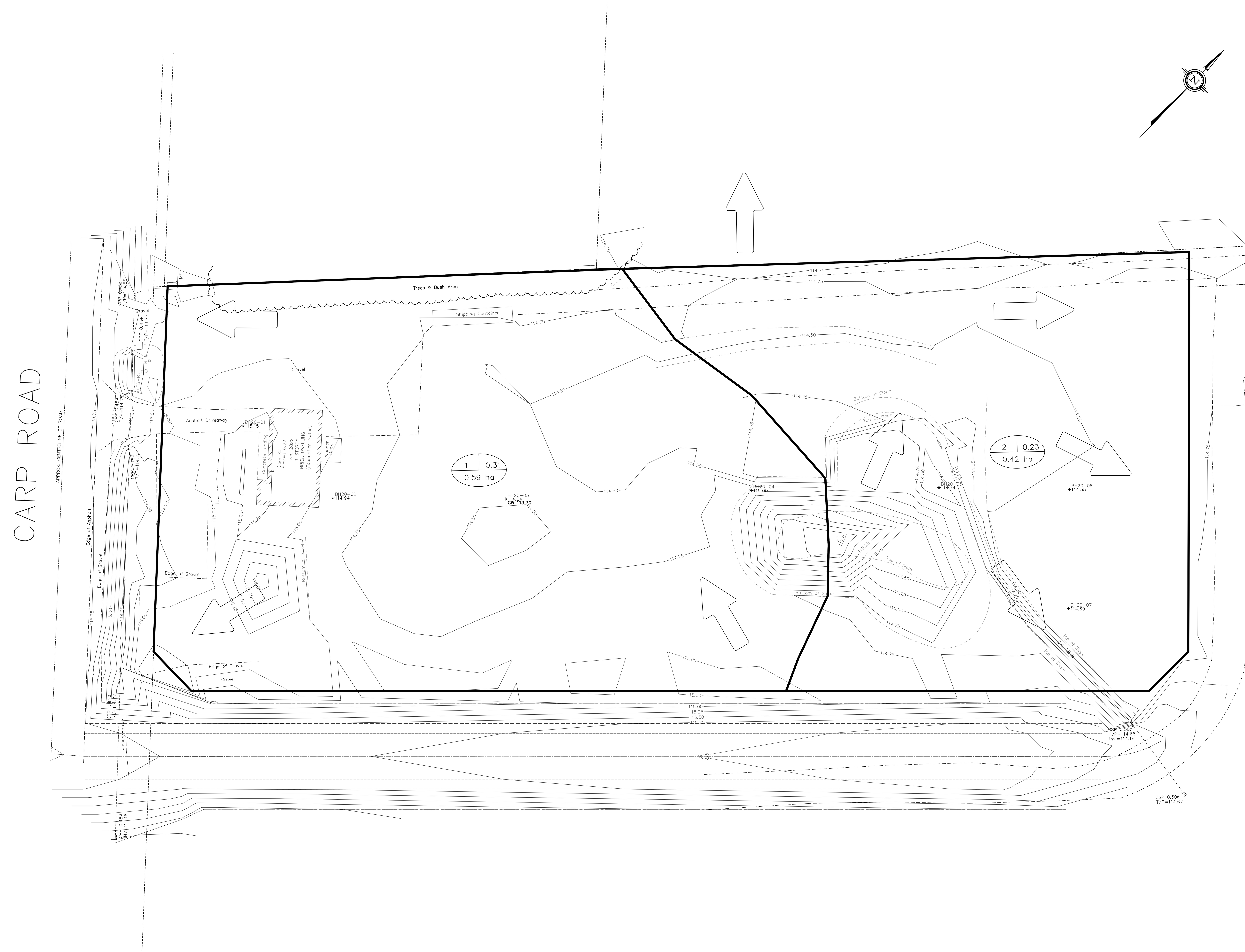
LICENSED PROFESSIONAL ENGINEER G.M. PEARSON 100061998 PROVINCE OF ONTARIO

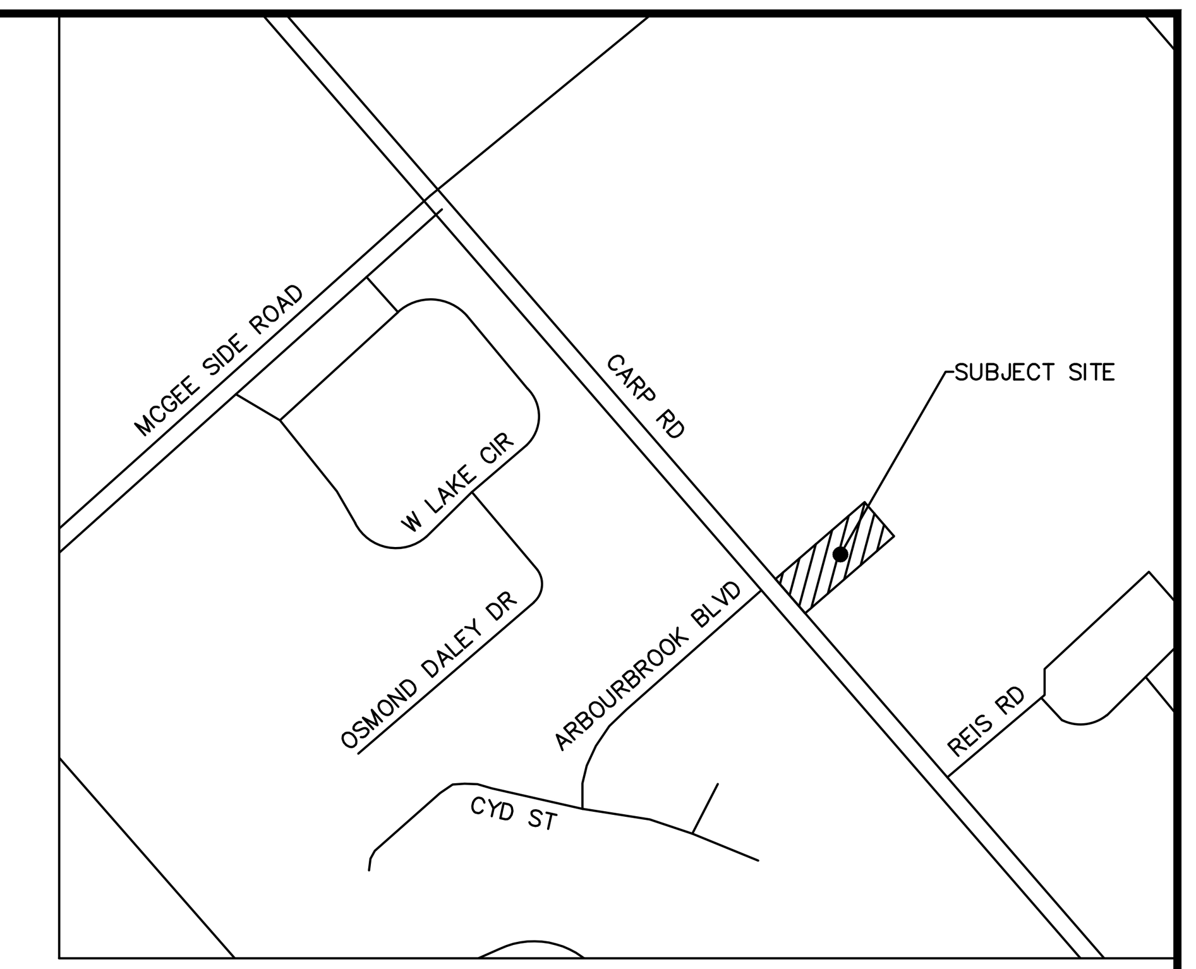
MULTI-TENANT COMMERCIAL BLDGS
2822 CARP ROAD
CITY OF OTTAWA

GRADING AND SERVICING PLAN

PEARSON ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY NW/MWD	HORIZ SCALE 1:300	PROJECT #	19124
DRAWN BY NW	VERT SCALE N/A	DRAWING #	SGS-1
CHECKED BY GMP	DATE SEPTEMBER 2020	REVISION #	0





KEY MAP N.T.S

LEGEND

OVERLAND FLOW DIRECTION

CATCHMENT AREA (1 | 0.75 / 1.00 ha) RUNOFF COEFFICIENT

AREA IN HECTARES

CATCHMENT BOUNDARY

NO.	REVISION NOTE	DATE	BY

BENCHMARK

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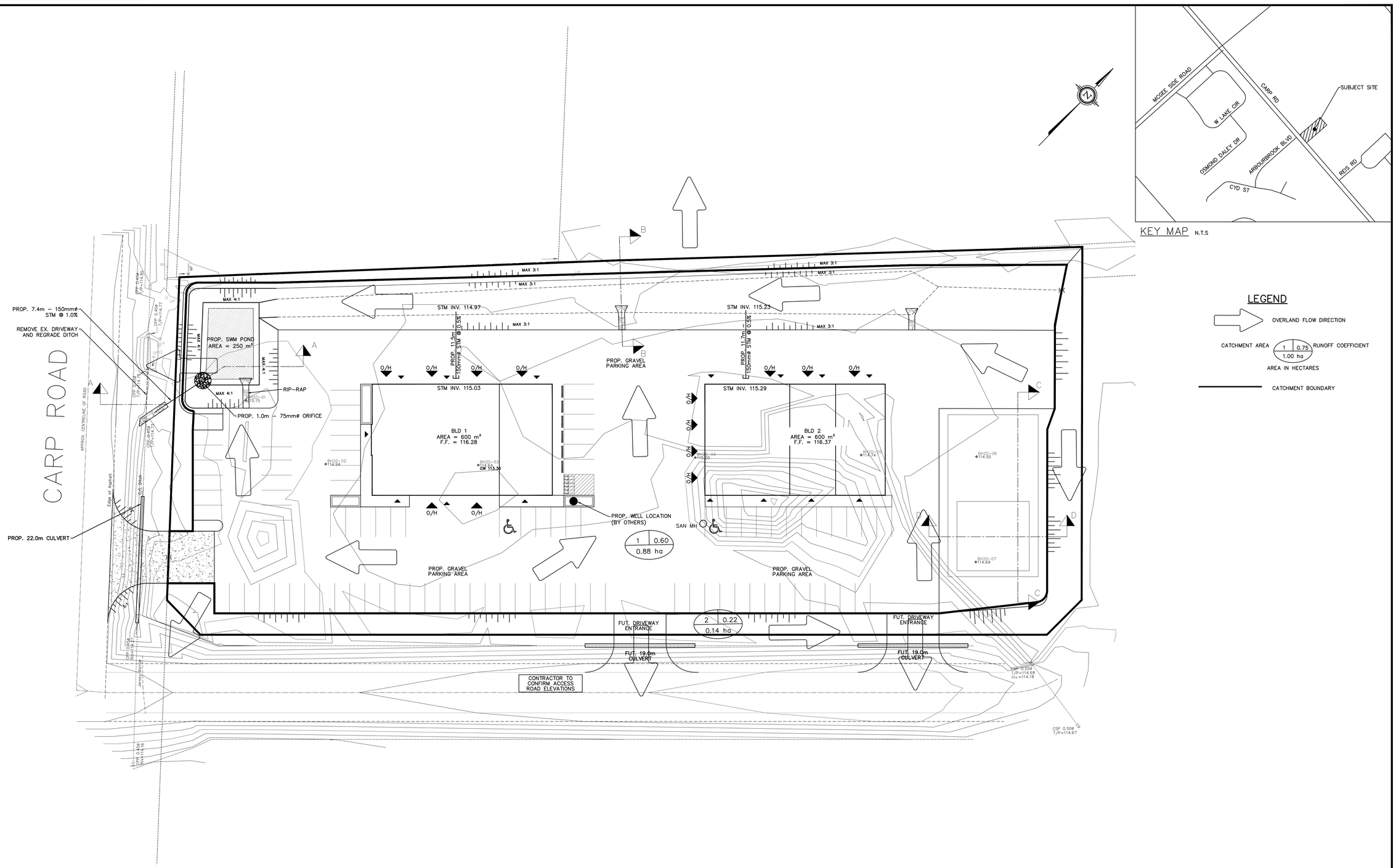
LICENSED PROFESSIONAL ENGINEER G. M. PEARSON 100061986 12/8/20 PROVINCE OF ONTARIO

MULTI-TENANT COMMERCIAL BLDGS
2822 CARP ROAD
CITY OF OTTAWA

PRE-DEVELOPMENT STORM CATCHMENT PLAN

PEARSON ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	NW/MWD	HORIZ SCALE	1:300	PROJECT #	19124
DRAWN BY	NW	VERT SCALE	N/A	DRAWING #	STM-1
CHECKED BY	GMP	DATE	SEPTEMBER 2020	REVISION #	0



KEY MAP N.T.S

LEGEND

- OVERLAND FLOW DIRECTION
- CATCHMENT AREA: 1 | 0.75 | 1.00 ha — RUNOFF COEFFICIENT / AREA IN HECTARES
- CATCHMENT BOUNDARY

NO.	REVISION NOTE	DATE	BY

BENCHMARK

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO BENCHMARK 68U001/CGVD28 GEODETIC DATUM.

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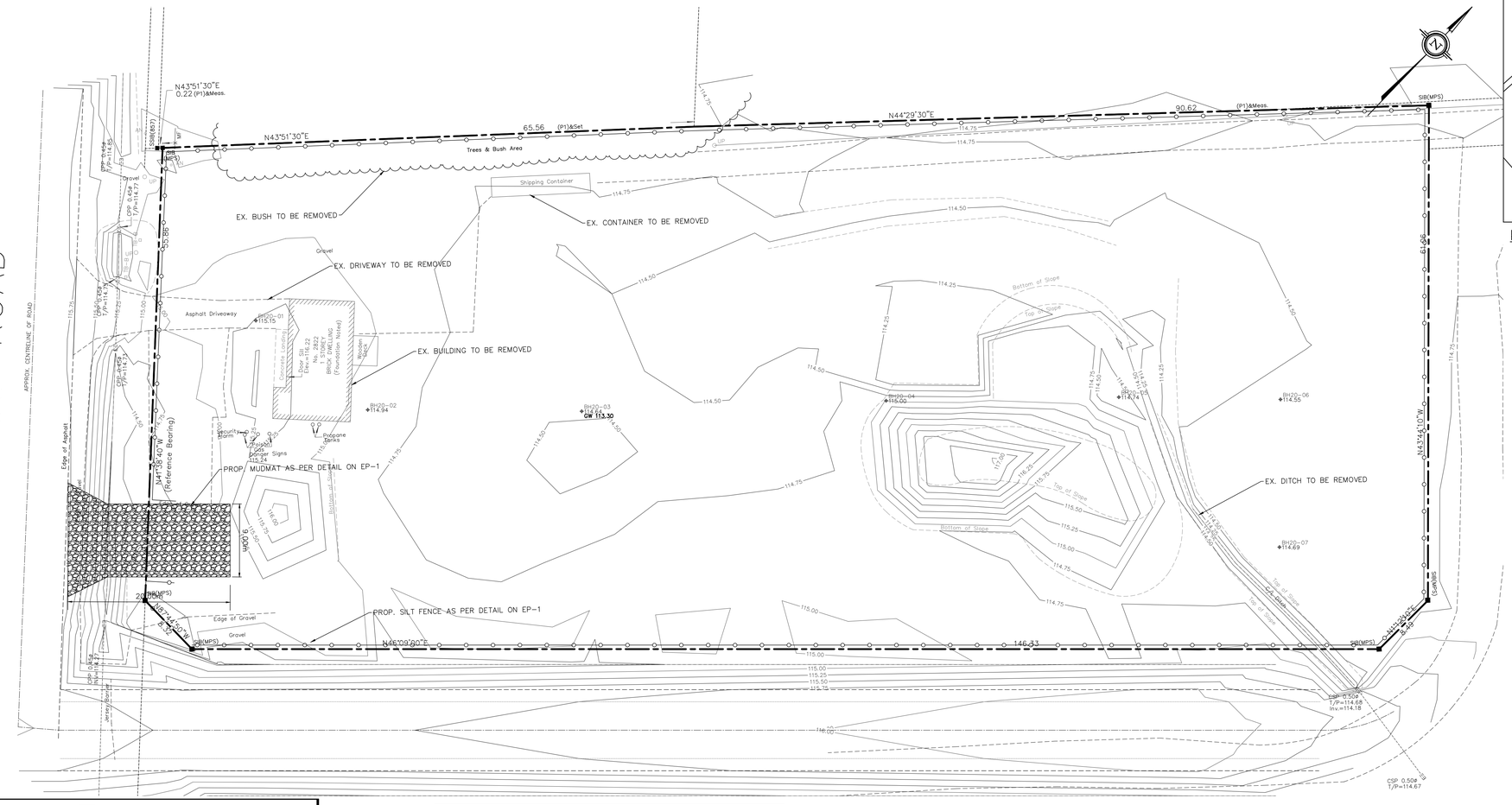
LICENSED PROFESSIONAL ENGINEER G. M. PEARSON 100016508 12/16/20 PROVINCE OF ONTARIO

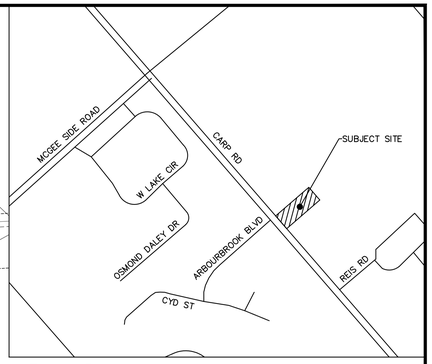
MULTI-TENANT COMMERCIAL BLDGS
2822 CARP ROAD
CITY OF OTTAWA

POST-DEVELOPMENT STORM CATCHMENT PLAN

PEARSON ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	NW/MWD	HORIZ SCALE	1:300
DRAWN BY	NW	VERT SCALE	N/A
CHECKED BY	GMP	DATE	SEPTEMBER 2020
PROJECT #	19124		
DRAWING #	STM-2		
REVISION #	0		





KEY MAP N.T.S

LEGEND

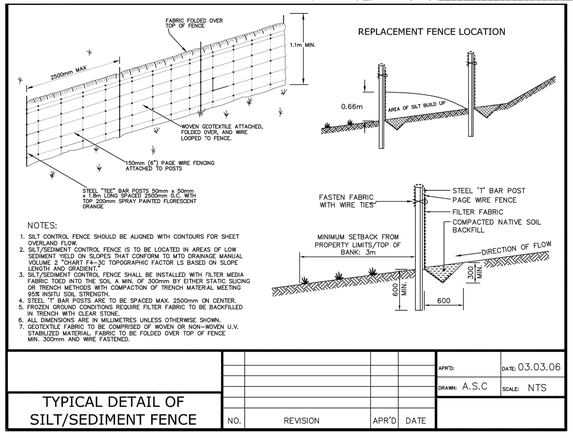
SILT FENCE

NOTES FOR SEDIMENT & EROSION CONTROL

1. DISTURBED AREAS THAT HAVE FAILED TO HAVE STABLE GROUND COVER ESTABLISHED BY OCTOBER 30TH SHALL BE PROTECTED WITH A SILTATION CONTROL FENCE OR STRAW MULCH ETC. AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION BECOMES ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
2. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE ADMINISTRATOR.
3. SILT FENCE SHALL BE PUT IN PLACE PRIOR TO AND MAINTAINED DURING ALL GRADING. SILT FENCE TO BE INSPECTED PRIOR TO COMMENCEMENT OF EARTH GRADING ACTIVITIES. SILT FENCE TO BE INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR.SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN EVENT. INSTALLATION SHALL BE TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY RAINFALL EVENT.
6. CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 577, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS.
7. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES SHOULD BE PRESENTED IN WRITING FOR APPROVAL OF THE SITE ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE MUNICIPALITY AND CONSERVATION AUTHORITY.
8. THE TOPS OF ALL FILTER FABRIC MUST BE A MINIMUM OF 1.0 METRE ABOVE THE GROUND LEVEL AND ATTACHED TO THE FENCE WITH A CONTINUOUS STEEL WIRE. ALTERNATIVELY, THE FILTER FABRIC MUST BE FOLDED OVER THE TOP OF THE FENCE AND ATTACHED TO THE FENCE WITH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
9. ALL DISTURBED GROUND LEFT FOR MORE THAN 30 DAYS SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, OR COVERING OR OTHER EQUIVALENT CONTROL MEASURES. THIS PERIOD OF INACTIVITY SHALL BE AT THE DISCRETION OF THE CITY OF OTTAWA'S MANAGER OF ENGINEERING BUT SHALL NOT EXCEED THIRTY DAYS OR SUCH LONGER PERIOD DEEMED ADVISABLE BY THE CITY OF OTTAWA'S MANAGER OF ENGINEERING.
10. CONTRACTOR RESPONSIBLE FOR MUD TRACKING, PREVENTION, AND MAINTENANCE ON CARP ROAD.
11. ROADS TO BE LEFT IN A BROOM SWEPT CONDITION AT THE END OF EACH WORK DAY.

SEQUENCE OF CONSTRUCTION

1. ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.
2. SILT FENCE AS PER DETAIL FOUND ON EP-1. CONSTRUCTION ACCESS MATS AS PER DETAIL FOUND ON EP-1 AND ARE TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORKS ONSITE.
3. VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE ENGINEER.
4. COMMENCE WITH EARTH WORKS AND SITE SERVICING.
5. INSTALLATION OF PROPOSED INFILTRATION FACILITIES AT THE TIME OF LANDSCAPING WORKS.
6. EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE ENGINEER DURING THE CONSTRUCTION PERIOD. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
7. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR OTHER ADEQUATE COVERING, AS INSTRUCTED BY THE ENGINEER.

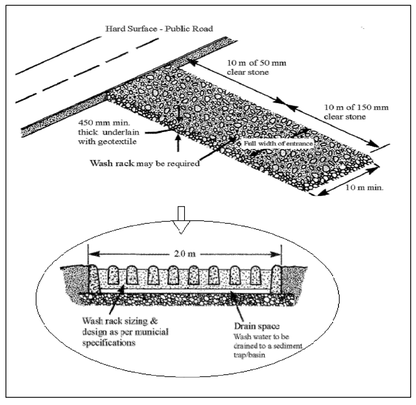


NOTES:
1. SILT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.
2. SILT/SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTO DRAINAGE MANUAL VOLUME 2 "CHART" 3C TOPOGRAPHIC FACTOR LS BASED ON SLOPE LENGTH AND GRADIENT.
3. SILT/SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TOED INTO THE SOIL A MIN. OF 300mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% INSITU SOIL STRENGTH.
4. STEEL "I" BAR POSTS ARE TO BE SPACED MAX. 2500mm ON CENTER.
5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.
6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.
7. GEOTEXTILE FABRIC TO BE COMPRISED OF WOVEN OR NON-WOVEN U.V. STABILIZED MATERIAL. FABRIC TO BE FOLDED OVER TOP OF FENCE MIN. 300mm AND WIRE FASTENED.

TYPICAL DETAIL OF SILT/SEDIMENT FENCE

APR'D:	DATE: 03.03.06
DRAWN: A.S.C	SCALE: NTS

NO.	REVISION	APR'D	DATE



MUD MAT DETAIL N.T.S.

NO.	REVISION NOTE	DATE	BY

BENCHMARK

ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO BENCHMARK 68U001/CGVD28 GEODETIC DATUM.

BEARINGS ARE GRID, DERIVED FROM THE SOUTHWESTERLY LIMIT OF PART 1 PLAN 4R-30382 SHOWN TO BE N41°38'40"W THERON AND ARE REFERRED TO THE CENTRAL MERIDIAN OF MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)

LICENSED PROFESSIONAL ENGINEER G.M. PEARSON 100019506 12/8/20 PROVINCE OF ONTARIO

MULTI-TENANT COMMERCIAL BLDGS
2822 CARP ROAD
CITY OF OTTAWA

EROSION AND REMOVALS PLAN

PEARSON ENGINEERING LTD.
PEARSONENG.COM PH. 705.719.4785

DESIGNED BY	NW/MWD	HORIZ SCALE	1: 300
DRAWN BY	NW	VERT SCALE	N/A
CHECKED BY	GMP	DATE	SEPTEMBER 2020
PROJECT #	19124		
DRAWING #	EPR-1		
REVISION #	0		