

Parcs
Canada

Parks
Canada

POINT PELEE NATIONAL PARK ON-SITE SEWAGE TREATMENT UPGRADES ESSEX COUNTY ONTARIO

PROJECT NO. 807

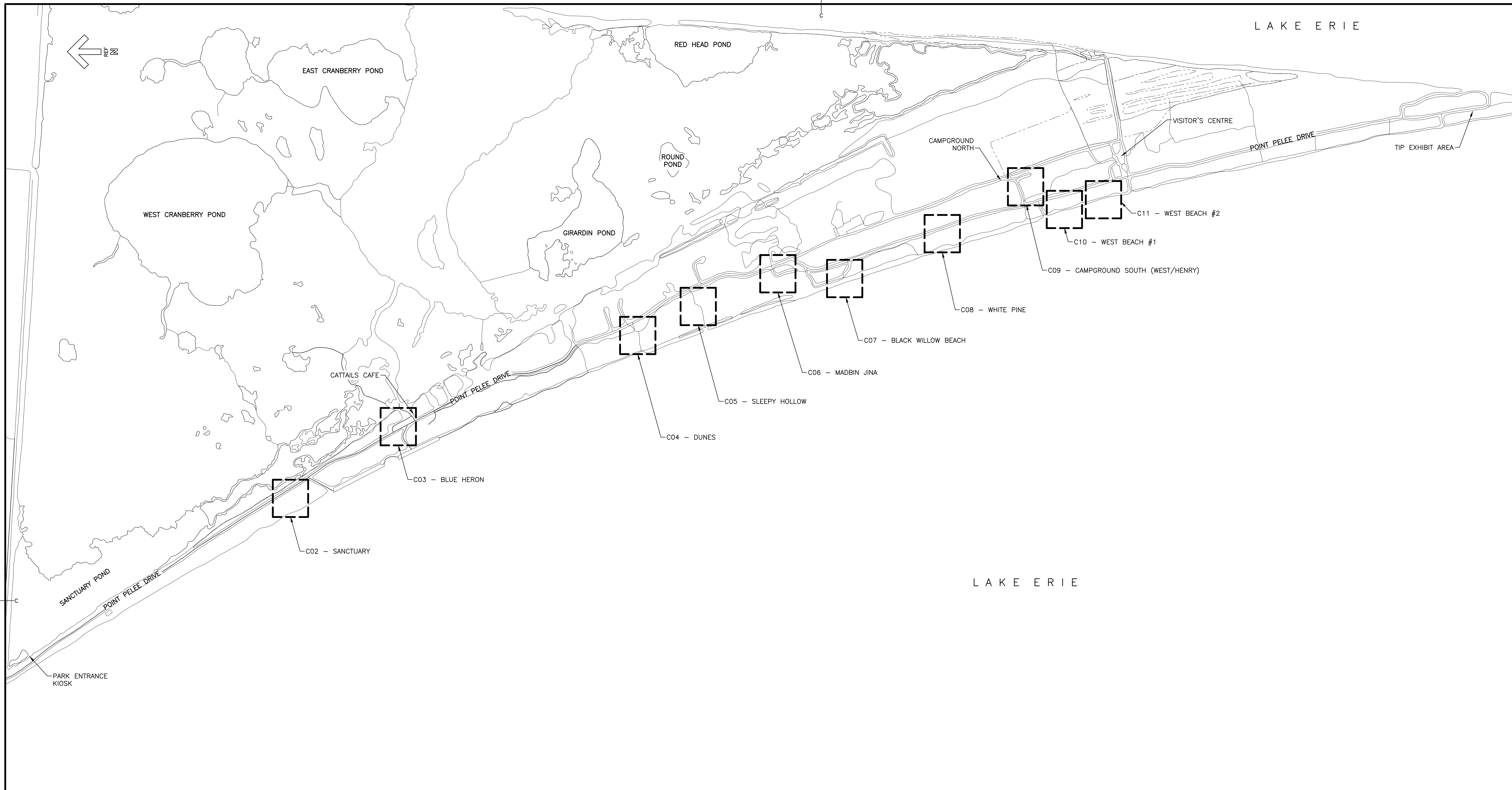
DRAWING LIST

CIVIL

- C01 OVERALL LOCATION PLAN
- C02 SANCTUARY ON-SITE SEWAGE TREATMENT UPGRADES
- C03 BLUE HERON ON-SITE SEWAGE TREATMENT UPGRADES
- C04 DUNES ON-SITE SEWAGE TREATMENT UPGRADES
- C05 SLEEPY HOLLOW ON-SITE SEWAGE TREATMENT UPGRADES
- C06 MADBIN JINA (PIONEER) ON-SITE SEWAGE TREATMENT UPGRADES
- C07 BLACK WILLOW ON-SITE SEWAGE TREATMENT UPGRADES
- C08 WHITE PINE ON-SITE SEWAGE TREATMENT UPGRADES
- C09 CAMPGROUND SOUTH (WEST/HENRY) ON-SITE SEWAGE TREATMENT UPGRADES
- C10 WEST BEACH NO. 1 ON-SITE SEWAGE TREATMENT UPGRADES
- C11 WEST BEACH NO. 2 ON-SITE SEWAGE TREATMENT UPGRADES
- C12 MISCELLANEOUS SECTIONS AND DETAILS



MONCTON 1077 boul. St. George Blvd. Suite 400 Moncton, N.B. Canada E1E 4G9 Tel: (506) 857-2777 Fax: (506) 857-2753 ENLOBECORP.COM	SAINT JOHN 133 Prince William Street Suite 703 Saint John, N.B. Canada E2L 2E5 Tel: (506) 693-5893 Fax: (506) 693-3250	FREDERICTON 565 Priestman Street Suite 400 Fredericton, N.B. Canada E3B 5X8 Tel: (506) 451-4400 Fax: (506) 693-3250
---------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------



Parcs Canada
 Parks Canada
 Englobe
 MONCTON: 1077 Blvd. St. George Blvd. 1077
 SAINT-JEAN: 131 Place Nelson Street 131
 FREDERICTON: 545 Piquette Street 545
 TEL: (506) 857-2755 TEL: (506) 857-2755 TEL: (506) 857-2755
 FAX: (506) 857-2755 FAX: (506) 857-2755 FAX: (506) 857-2755
 ENGLOBE.CORP.COM

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATES PRIOR TO THE START OF WORK. A PRIVATE LOCATOR WILL BE REQUIRED.
 2. CONTRACTOR TO CONFIRM EXACT LOCATION, MATERIAL AND SIZE OF EXISTING PIPING, UNDERGROUND POWER LINES AND ALL CONNECTION POINTS IN THE FIELD, PRIOR TO ANY GROUNDWORK.
 3. ANY UTILITIES THAT MAY BECOME DAMAGED DURING CONSTRUCTION MUST BE REPORTED TO THE DEPARTMENTAL REPRESENTATIVE IMMEDIATELY AND REPAIRED AT NO COST TO PCA.
 4. UNDER NO EXCEPTION SHALL TREE CLEARING BE COMPLETED WITHOUT WRITTEN APPROVAL FROM DEPARTMENTAL REPRESENTATIVE. ADJUSTMENTS TO PIPE ALIGNMENTS TO BE DONE IN THE FIELD TO AVOID DAMAGE TO EXISTING VEGETATION, AND APPROVED BY DEPARTMENTAL REPRESENTATIVE.
 5. THE CONTRACTOR TO CONFIRM EXISTING UTILITIES LOCATES HAVE BEEN COMPLETED PRIOR TO ANY WORK. LOCATES MUST BE PERFORMED BY CAREFUL EXCAVATION AND HAND DIGGING IN CLOSE PROXIMITY IN AREAS WHERE THE NEW SEWER MAIN IS EXPECTED TO CROSS THE EXISTING UTILITIES. AS A MINIMUM, THE CONTRACTOR SHALL EXPOSE THE EXISTING UTILITIES BEFORE WORKING WITHIN 1m OF IT.
 6. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY SUPPORT OF UTILITY POLES AND UNDERGROUND UTILITY DUCTS DURING THE INSTALLATION OF THE NEW SEPTIC SYSTEMS AS REQUIRED, INCIDENTAL TO THE WORK.
 7. THE CONTRACTOR MUST HAVE A COPY OF ALL APPROVED ENVIRONMENTAL PERMITS ON-SITE AT ALL TIMES AS WELL AS PARKS CANADA BASIC IMPACT ASSESSMENT (B.I.A.) AND MUST FAMILIARIZE THEMSELVES WITH ALL CONDITIONS OF THE PERMITS AND ADHERE TO THE REQUIREMENTS OF THE PERMITS AT ALL TIMES.
 8. DRAWINGS COORDINATES ARE BASED IN NAD83 (CSRS), UTM ZONE 17N.
 9. SAFETY SIGNS TO BE INSTALLED PRIOR TO START OF CONSTRUCTION AND IN ACCORDANCE WITH MINISTRY OF TRANSPORTATION'S ONTARIO TRAFFIC MANUAL BOOK 7.
 10. ALL DISTURBED AREAS SHALL BE REINSTATED TO PREVIOUS CONDITIONS OR BETTER; IN ACCORDANCE WITH THE SPECIFICATIONS.
 11. EXISTING ASPHALT AND CRUSHED ROCK DRIVEWAYS AFFECTED BY THE WORK SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.
 12. ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.
 13. EROSION CONTROL STRUCTURES AND SILT FENCING TO BE INSTALLED PRIOR TO START OF THE WORK, INCIDENTAL TO THE WORK. CONTRACTOR TO PROVIDE EROSION CONTROL PLANS TO DEPARTMENTAL REPRESENTATIVE FOR APPROVAL PRIOR TO START OF WORK. CONTRACTOR TO INSPECT, REPAIR AND MAINTAIN EROSION CONTROL STRUCTURES FOR THE DURATION OF CONSTRUCTION.
 14. REFER TO SPECIFICATIONS FOR GEOTECHNICAL REPORT.
 15. CONTRACTOR SHALL ENSURE THAT THE WORK IS COMPLETED WITHOUT SURCHARGING OF RAW SEWAGE. PROVIDE TEMPORARY PUMPING OR VACUUM EQUIPMENT AS REQUIRED. THIS SHALL BE INCIDENTAL TO THE WORK.
 16. 50mm THICK CLOSED CELL INSULATION TO BE PLACED ON MAINS AND SERVICES WHERE COVER IS LESS THAN 1.8m. INSULATION TO BE MIN. 1.2m WIDE.
 17. COST ASSOCIATED FROM ANY DAMAGE TO EXISTING POWER, COMMUNICATION OR UTILITY LINES SHOWN ON DRAWING OR FROM LOCATES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 18. EXISTING SEPTIC OR SANITARY SYSTEMS SHALL BE COMPLETELY REMOVED AS PER SPECIFICATION UNLESS OTHERWISE NOTED AND AS PER REGULATIONS.

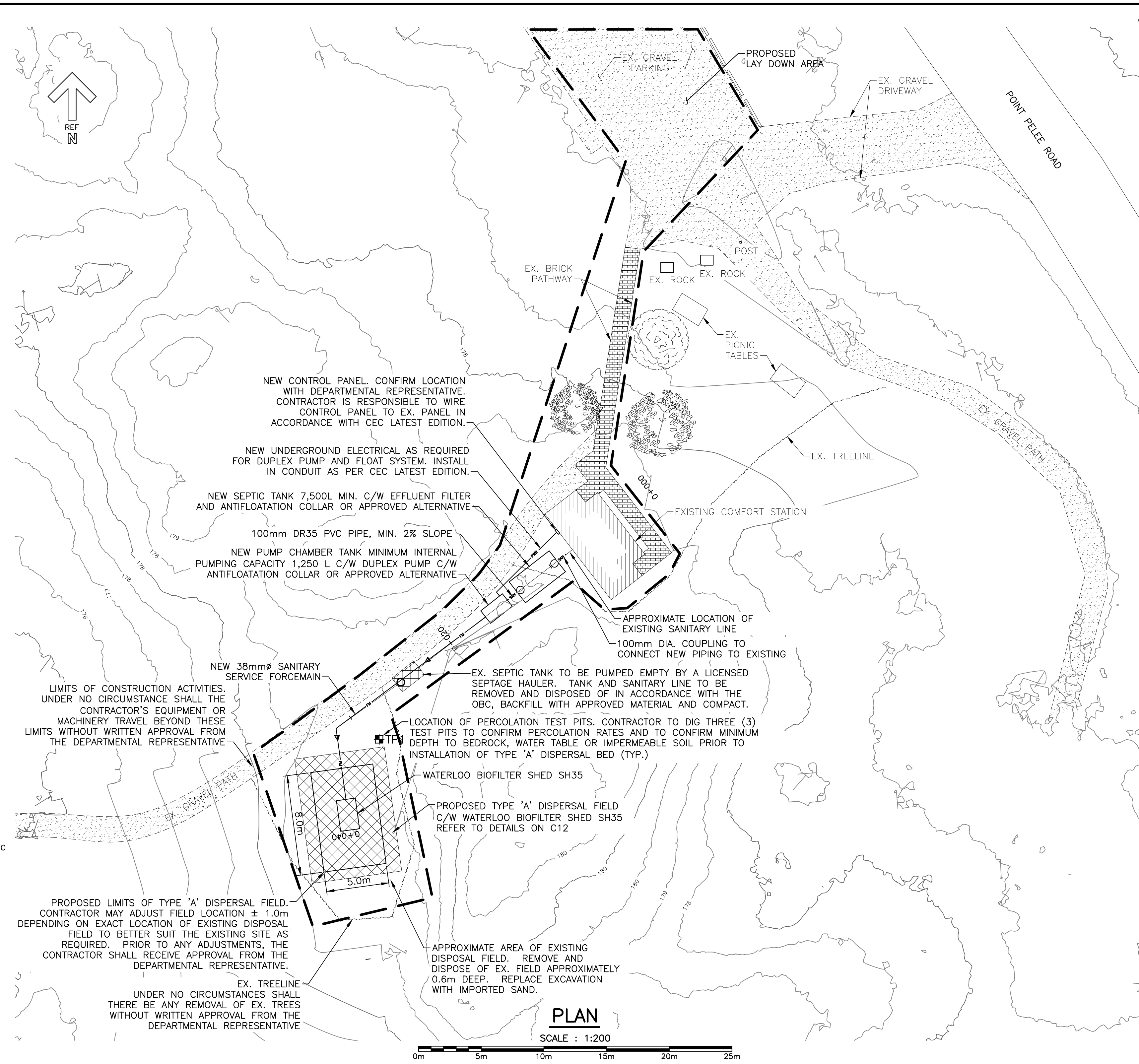
LEGEND

EXISTING	NEW



0	ISSUED FOR TENDER	AUG. 23, 2021
revisions		date
project	POINT PELEE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	OVERALL LOCATION PLAN	
designed	KYLE McCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNE CAMPEAU, P.ENG.	Submission
PWSSC Project Manager	Administrateur de projets TPSSC	
project number	807	
no. du projet		
drawing no.	C01	
no. du dessin		

SURVEY CONTROL POINT				
POINT NUMBER	EASTING	NORTHING	ELEVATION	DESCRIPTION
0011970U673	E372003	N4648589	176.663m	SURVEY CONTROL MARKER

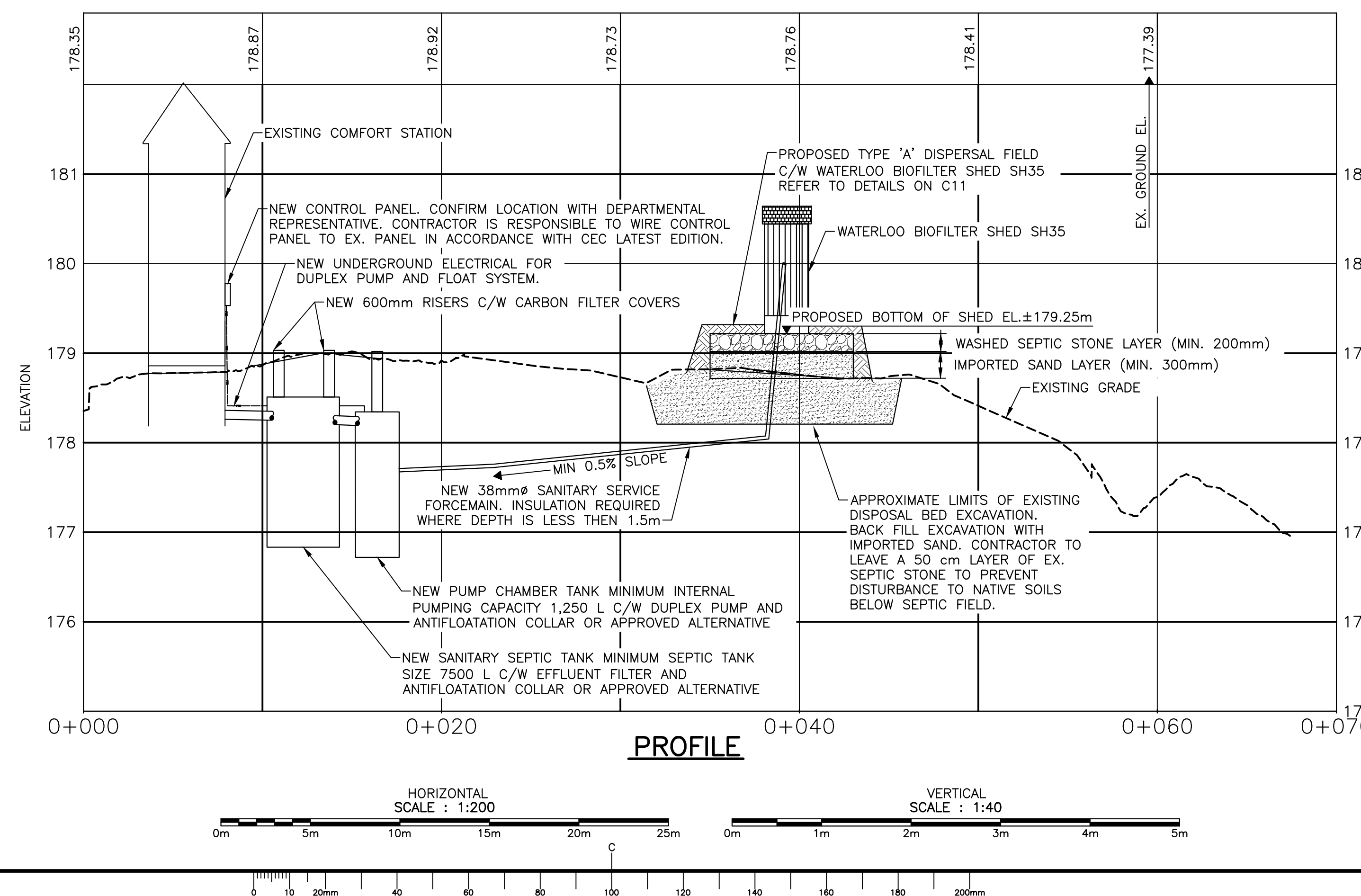


SANCTUARY		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2500	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 12/254 FIXTURES 4.7% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	7,500	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1250	0.5 x Q min.
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	33	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	24	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40	

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN SITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	372642.8	4647904.0	179.25m



LEGEND:

	REMOVALS
	NEW SANITARY (GRAVITY)
	NEW SANITARY (FORCEMAIN)
	EXISTING TREELINE
	EXISTING GRAVEL
	EXISTING BRICK PATHWAY
	TEST PIT / PERCOLATION TEST
	NOT IN CONTRACT
	UNDERGROUND POWERLINE



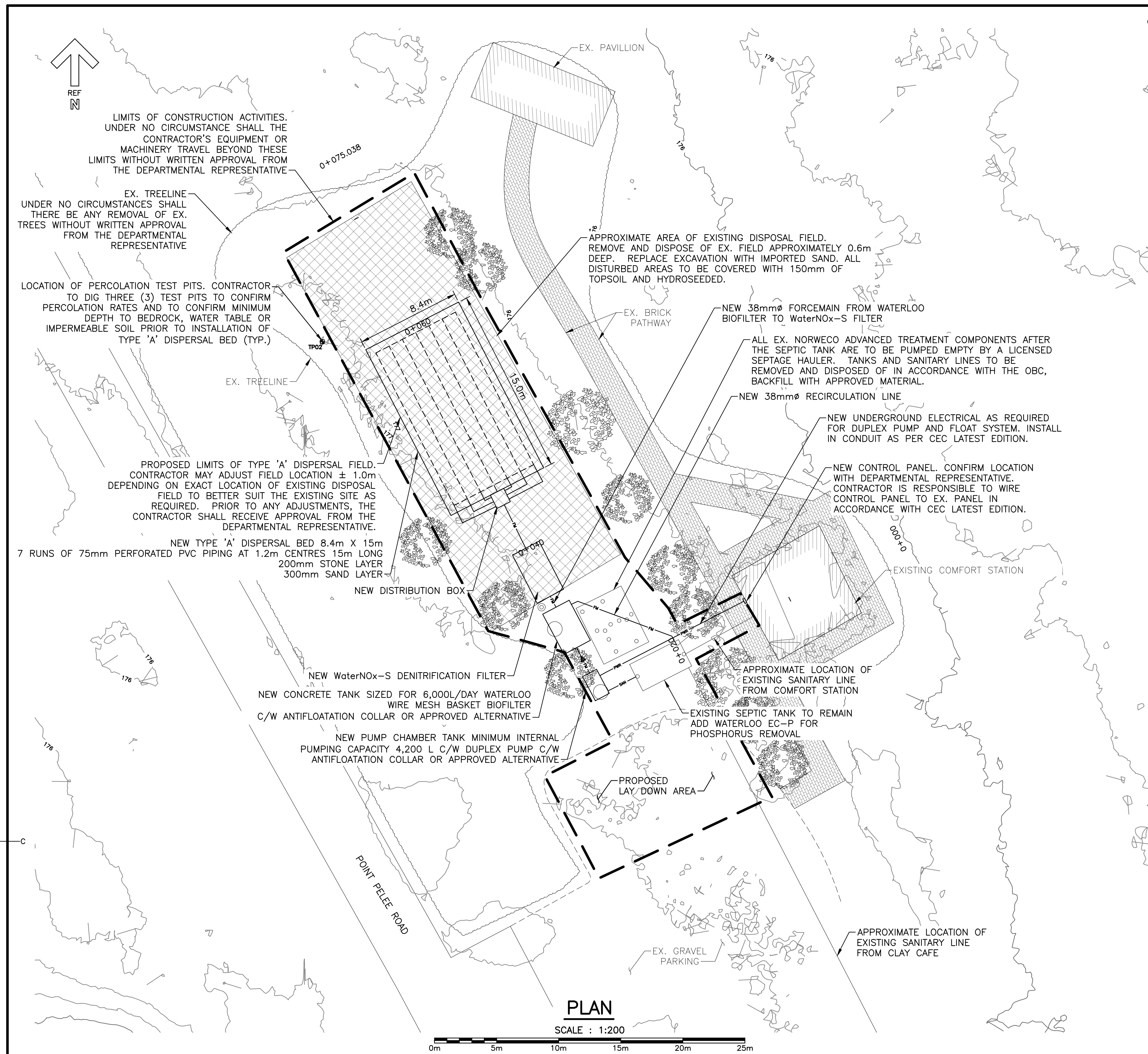
MONCTON 1077 Ave. St. George Blvd. Suite 400 Moncton, N.B. Canada E1C 2G2 Tel: (506) 851-2777 Fax: (506) 851-2753 ENGLLOBE.CORP.COM

SANT JOHN 132 Prince William Street Suite 201 Saint John, N.B. Canada E2C 2B6 Tel: (506) 643-0883 Fax: (506) 943-3250

FREDERICTON 565 Pigeon Street Suite 400 Fredericton, N.B. Canada E3B 5Z4 Tel: (506) 451-4462 Fax: (506) 943-3250



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	SANCTUARY ON-SITE SEWAGE TREATMENT UPGRADES	
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNE CAMPEAU, P.ENG.	Submission
Project Manager	Administrateur de projets TPSGC	
project number	807	no. du projet
drawing no.	C02	no. du dessin

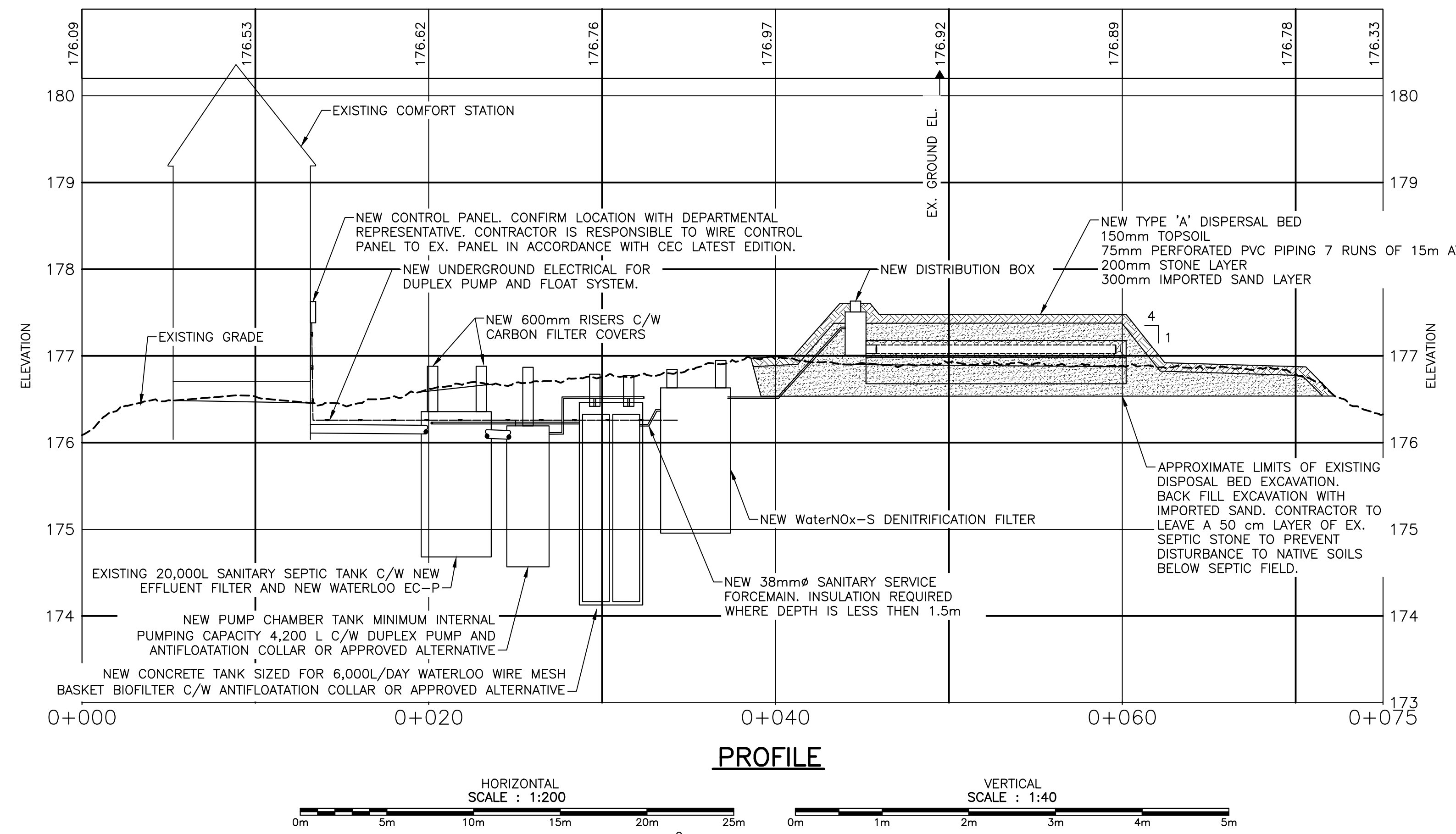


BLUE HERON		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	6000	BASED ON DISCUSSIONS WITH PARKS CANADA
PRE-TREATMENT [SEPTIC TANK SIZE] (L) (EXISTING)	18,000	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	4200	0.7 x Q (Q = >3000)
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	120	WHERE Q>3000 L/DAY A=Q/50
STONE AREA PROVIDED (m ²)	126	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	56	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	126	

- LEGEND:**
- REMOVALS
 - SAN - NEW SANITARY (GRAVITY)
 - FM - NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. - NOT IN CONTRACT
 - PWR - UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.



Parcs Canada Parks Canada

Englobe

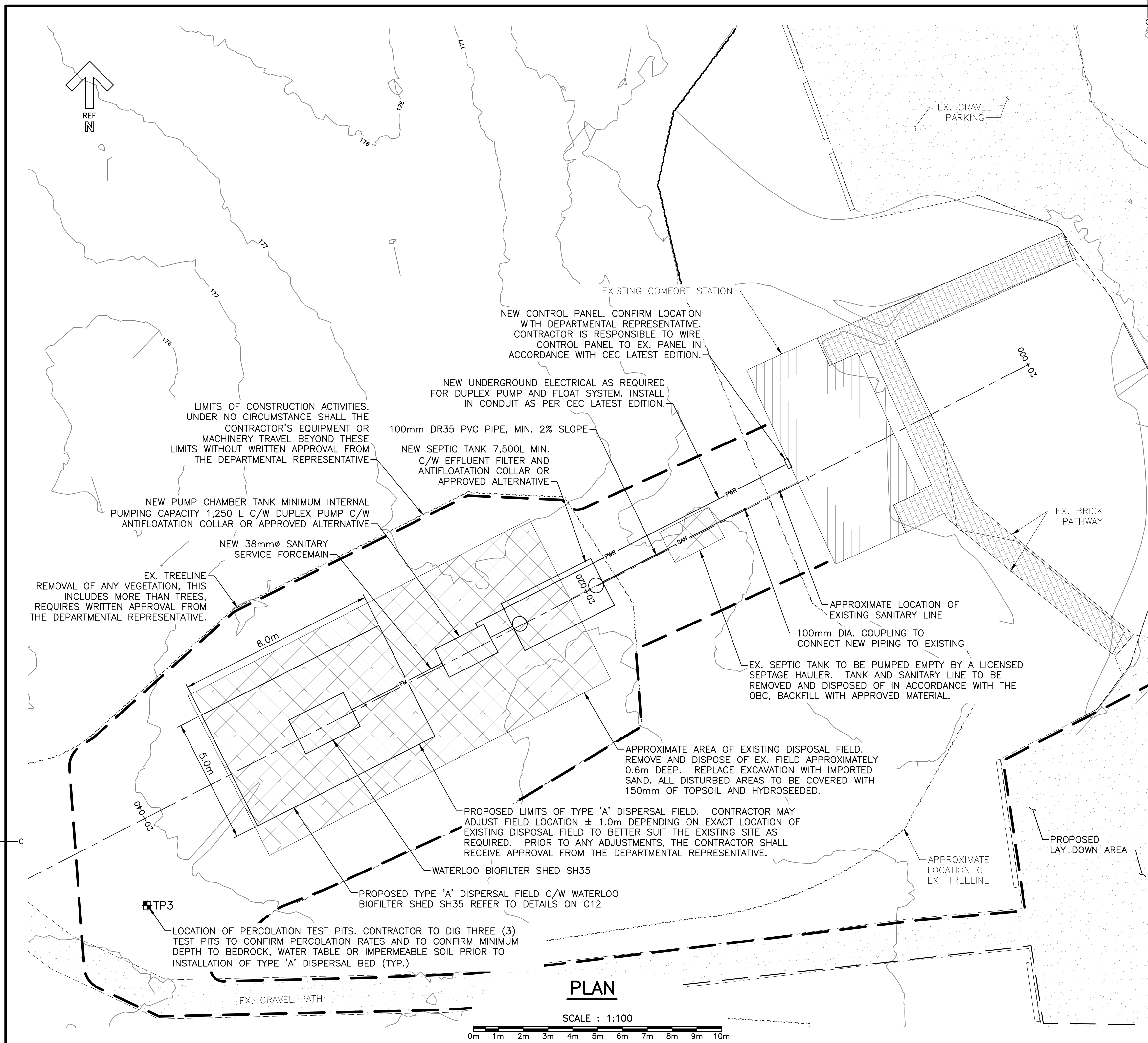
MONCTON: 1077 Ave. St. George Blvd. Suite 400, N.B. Canada. Tel: (506) 851-2777, Fax: (506) 851-2753, ENGLOBE.CORP.COM

SAINT JOHN: 132 Prince William Street, Suite 703, N.B. Canada. Tel: (506) 693-0883, Fax: (506) 693-2550

FREDERICTON: 565 Pigeon Street, Suite 400, N.B. Canada. Tel: (506) 451-4400, Fax: (506) 451-2550



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PELEE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	desain	
	BLUE HERON ON-SITE SEWAGE TREATMENT UPGRADES	
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNE CAMPEAU, P.ENG.	Submission
PWSSC Project Manager	Administrateur de projets TPSSC	
project number	807	
drawing no.	C03	



DUNES		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2500	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 12/254 FIXTURES 4.7% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	7,500	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1250	0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	33	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	24	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40	

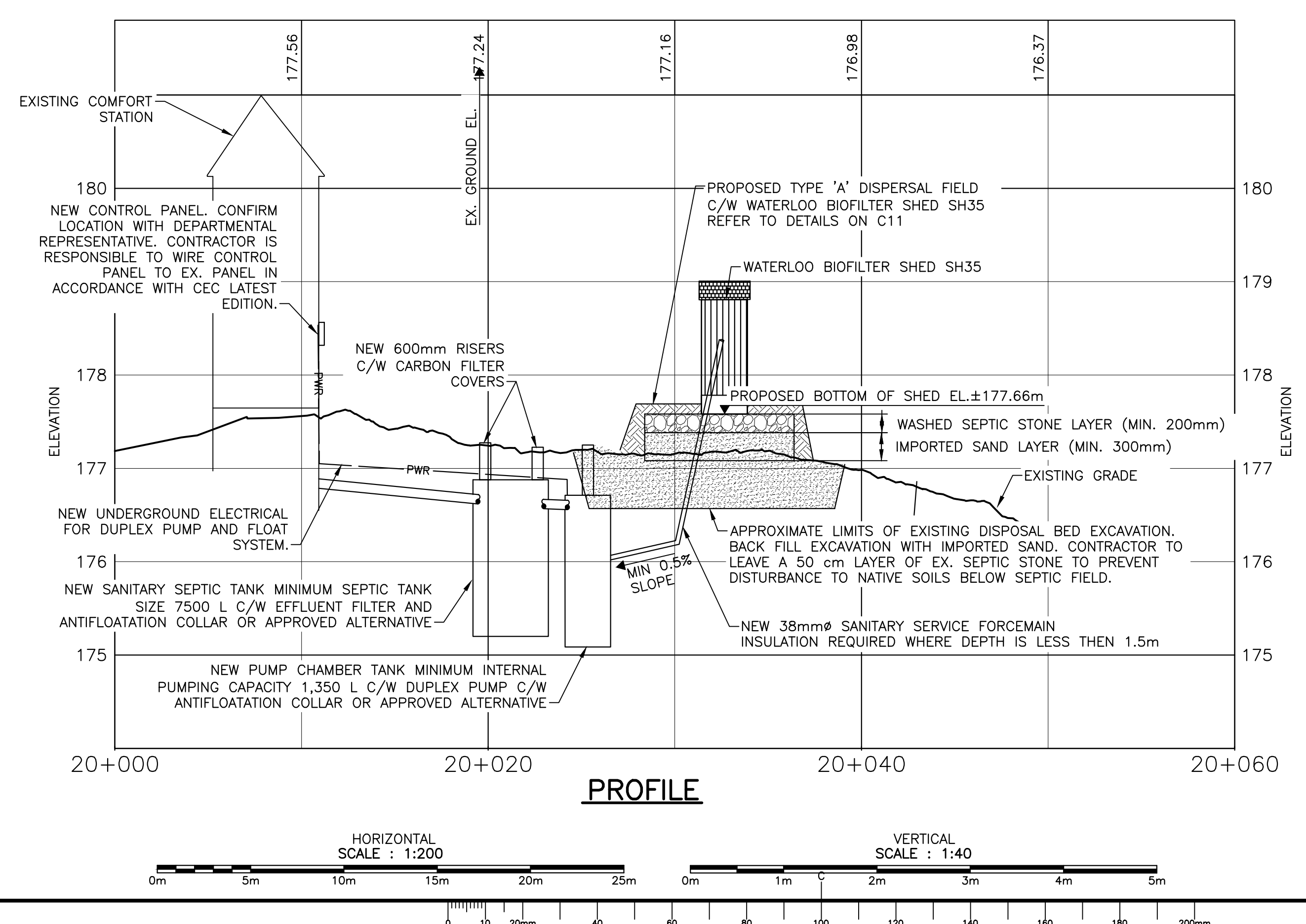
- LEGEND:**
- REMOVALS
 - SAN - NEW SANITARY (GRAVITY)
 - FM - NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. - NOT IN CONTRACT
 - PWR - UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN SITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH COMPACTED APPROVED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N

	EASTING	NORTHING	BOTTOM OF SHED EL.
1	373537.0	4646021.1	177.66m



Parcs Canada Parks Canada

Englobe

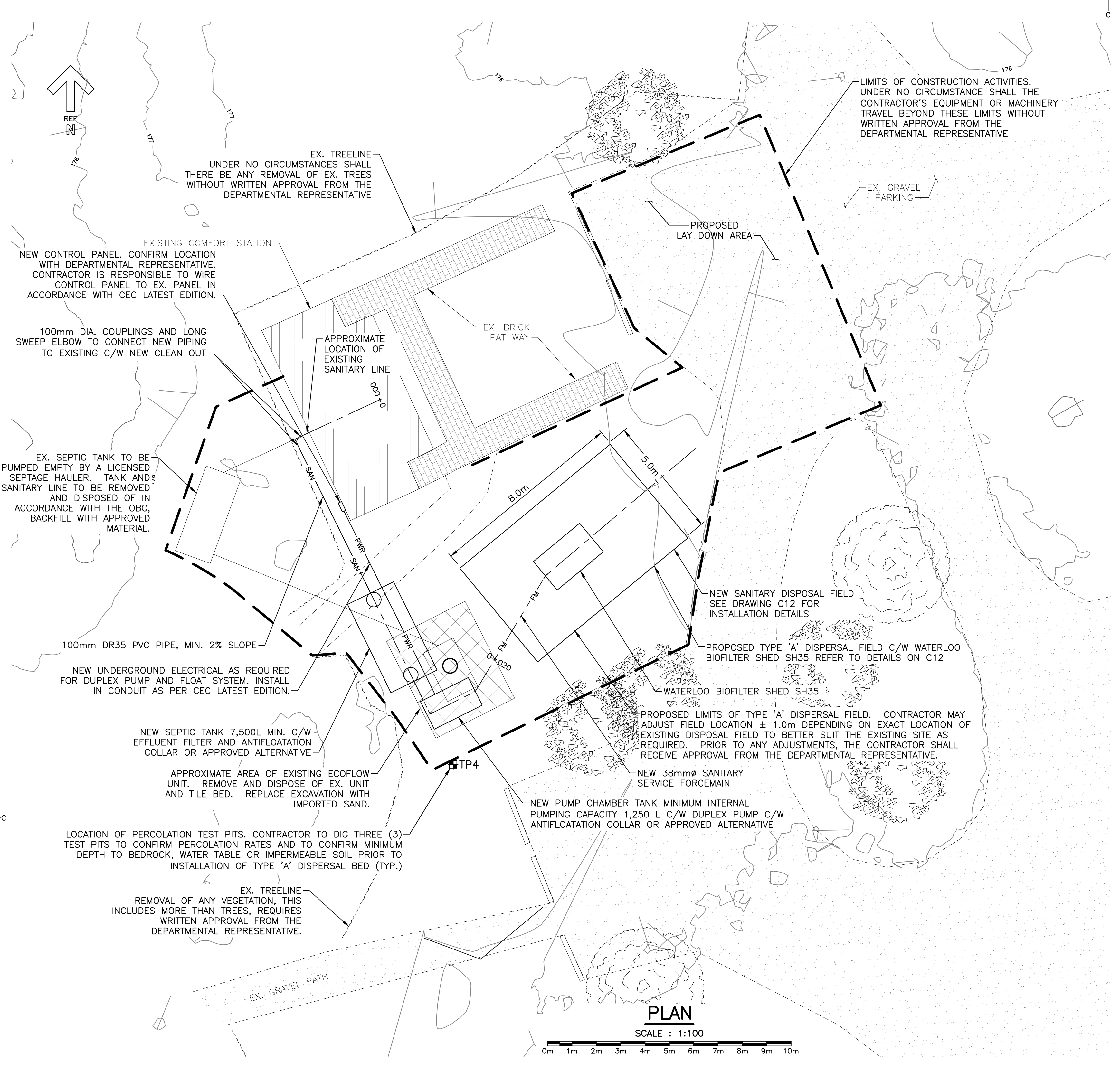
MONCTON: 1077 boul. St. George Blvd. Suite 401, Moncton, N.B. Canada B1A 2K6. Tel: (506) 857-2177, Fax: (506) 857-2763, ENGLOBE.CORP.COM

SANT JOHN: 133 Prince William Street Suite 401, Saint John, N.B. Canada E7B 2G6. Tel: (506) 893-6682, Fax: (506) 893-3250

FREDERICTON: 565 Pigeon Street Suite 401, Fredericton, N.B. Canada E3B 2G6. Tel: (506) 461-4400, Fax: (506) 663-3250



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	project
drawing	DUNES ON-SITE SEWAGE TREATMENT UPGRADES	design
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	807	no. du projet
drawing no.	C04	no. du dessin



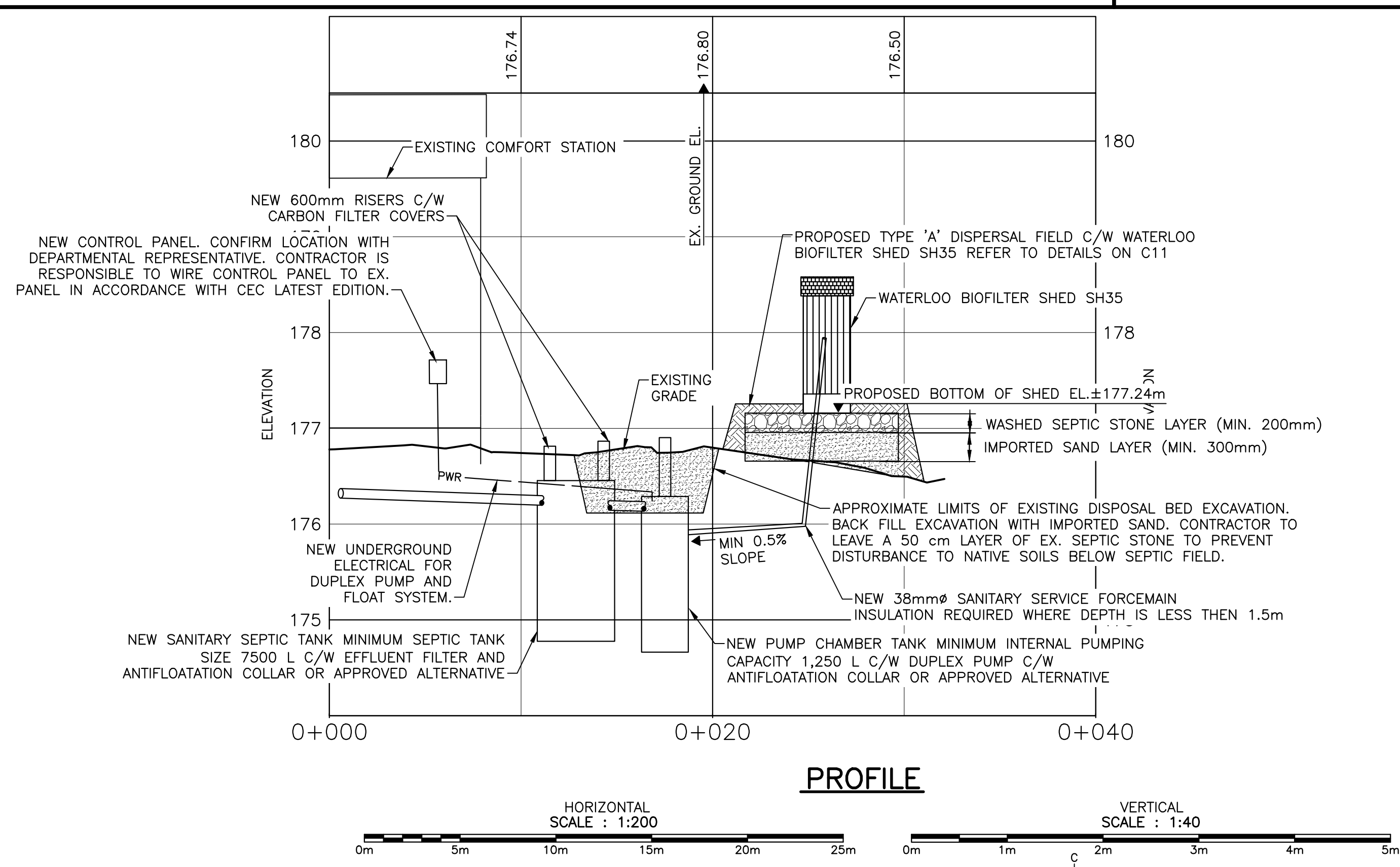
SLEEPY HOLLOW		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2500	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 12/254 FIXTURES 4.7% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	7,500	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1250	0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	33	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	24	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40	

- LEGEND:**
- REMOVALS
 - NEW SANITARY (GRAVITY)
 - NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - NOT IN CONTRACT
 - UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD;
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	373710.2	4645674.8	177.24m



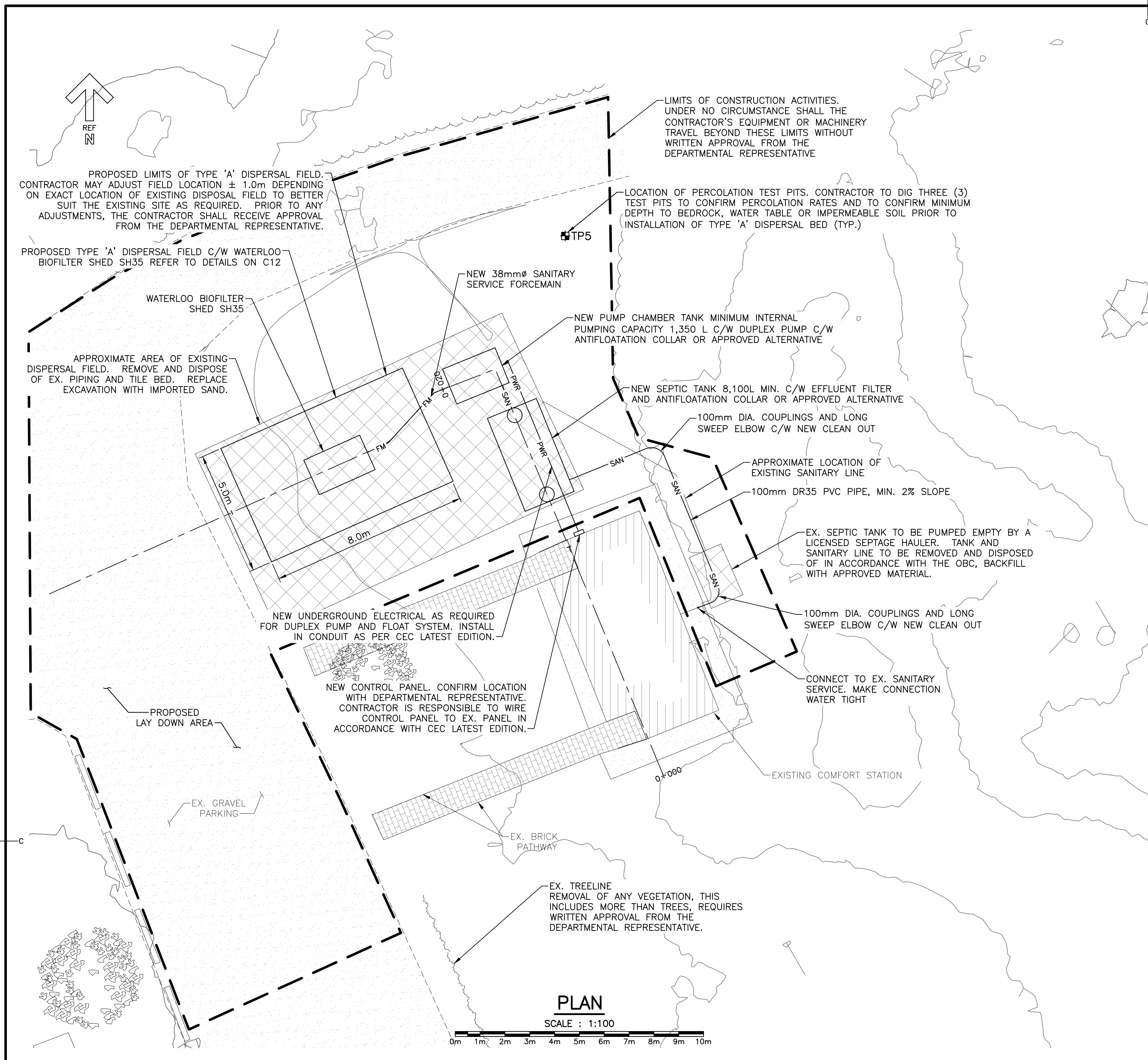
Parcs Canada Parks Canada

Englobe

MONCTON: 1077 boul. St. George Blvd. Saint-John: 133 Prince William Street Fredericton: 565 Pelargonium Street



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	design	
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Soumission
PWGC Project Manager	Administrateur de projets TPSC	
project number	807	no. du projet
drawing no.	C05	no. du dessin



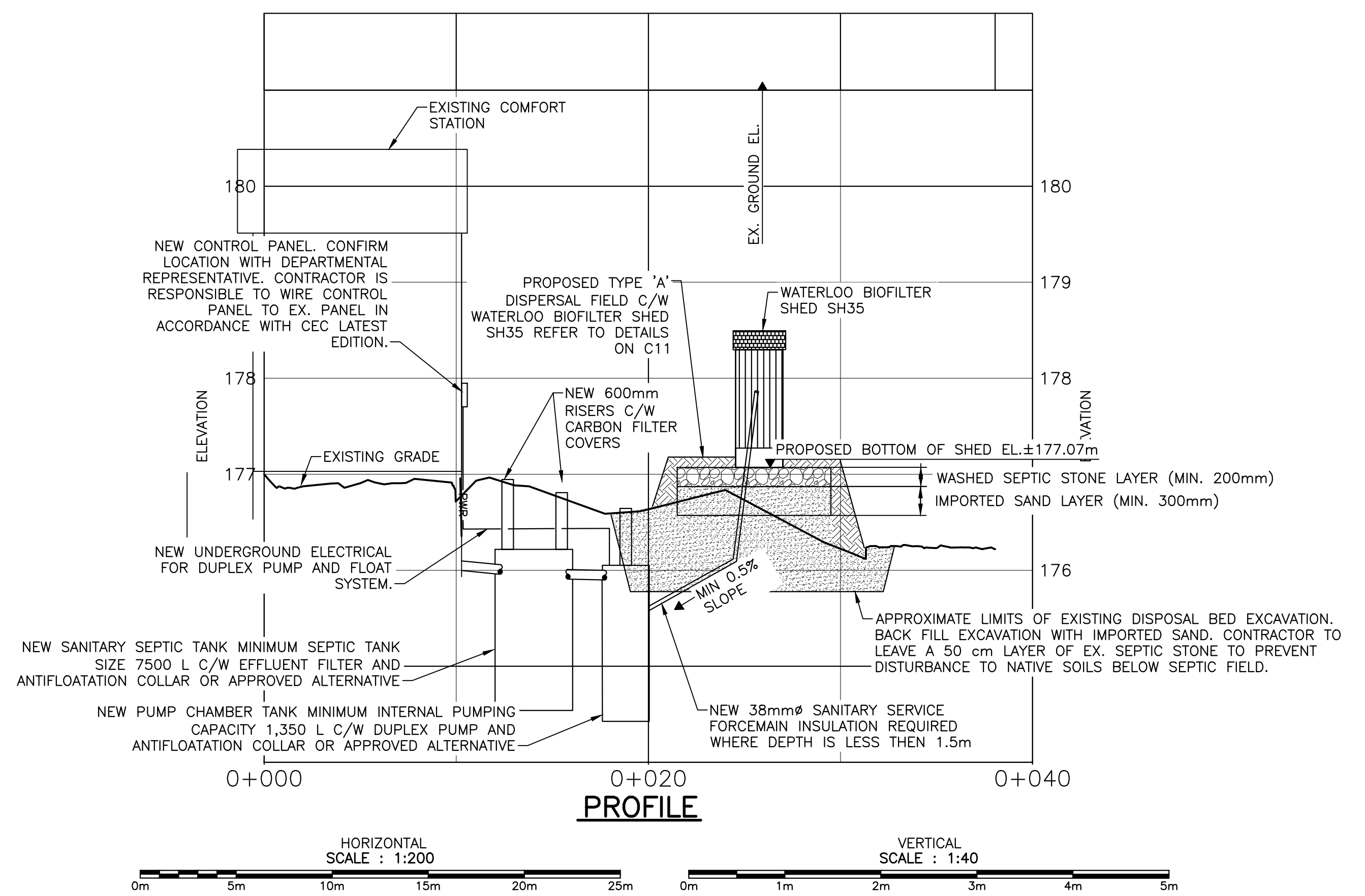
MABIN JINA		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2700	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE, 13/254 FIXTURES 5.1% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	8,100	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1350	0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	36	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40	
TYPE 'A' DISPOSAL BED MIN. SAND AREA (m ²)	25	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40	

- LEGEND:**
- REMOVALS
 - SAN NEW SANITARY (GRAVITY)
 - FM NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. NOT IN CONTRACT
 - PWR UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - STRUCTURE = 1.5m
 - PROPERTY LINE = 3m
 - DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - STRUCTURE = 5.0m
 - PROPERTY LINE = 3.0m
 - DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	373895.8	4645235.0	177.07



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	MABIN JINA ON-SITE SEWAGE TREATMENT UPGRADES	
designed	KYLE MCCONELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Soumission
PWGSC Project Manager	Administrateur de projets TPSGC	
project number	807	
drawing no.	C06	



BLACK WILLOW		
DESIGN CRITERIA	DOMESTIC	FROM COMFORT STATION
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2300	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 11/254 FIXTURES 4.3% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	6,900	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1150	0.5 x Q min.
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m ²)	31	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	22	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40	

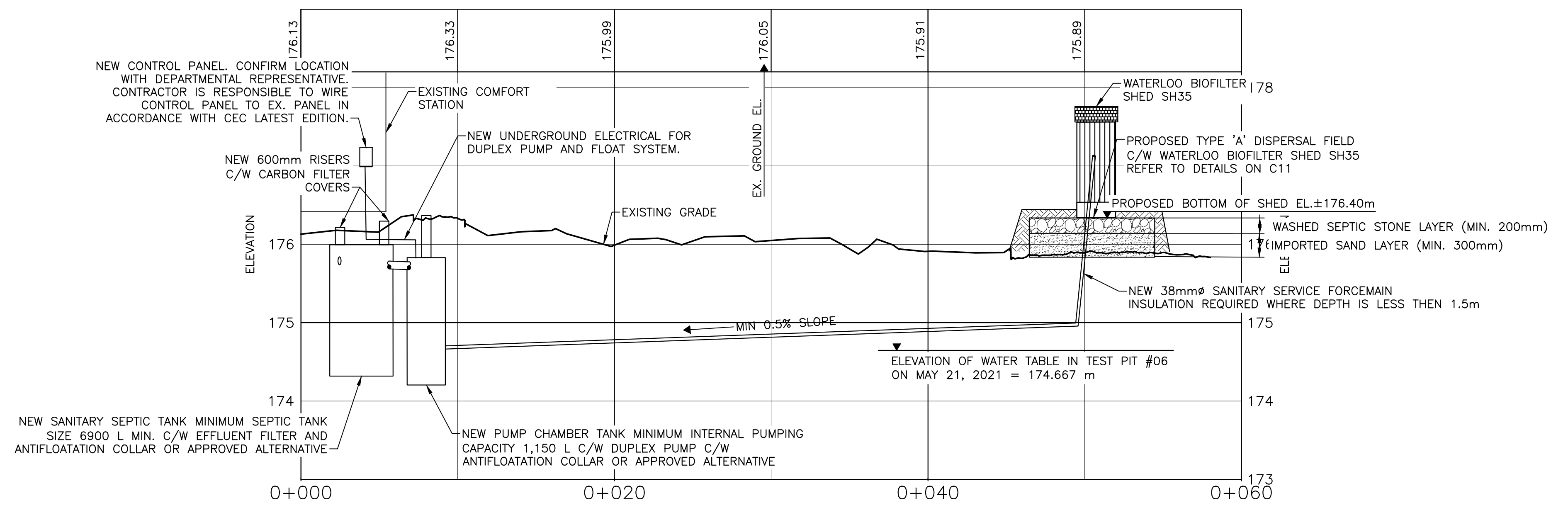
- LEGEND:**
- REMOVALS
 - SAN NEW SANITARY (GRAVITY)
 - FM NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. NOT IN CONTRACT
 - PWR UNDERGROUND POWERLINE
 - EXISTING FENCE

GENERAL NOTES:

1. CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
2. CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
4. THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
5. REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED, BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
6. PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
7. STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
8. THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min/cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
9. INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
10. EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
11. GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
12. SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
13. SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
14. NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
15. ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
16. FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
17. CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
18. MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
19. MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
20. ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
21. ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N

	EASTING	NORTHING	BOTTOM OF SHED EL.
1	373869.9	4644846.7	176.40



Parcs Canada Parks Canada

Englobe

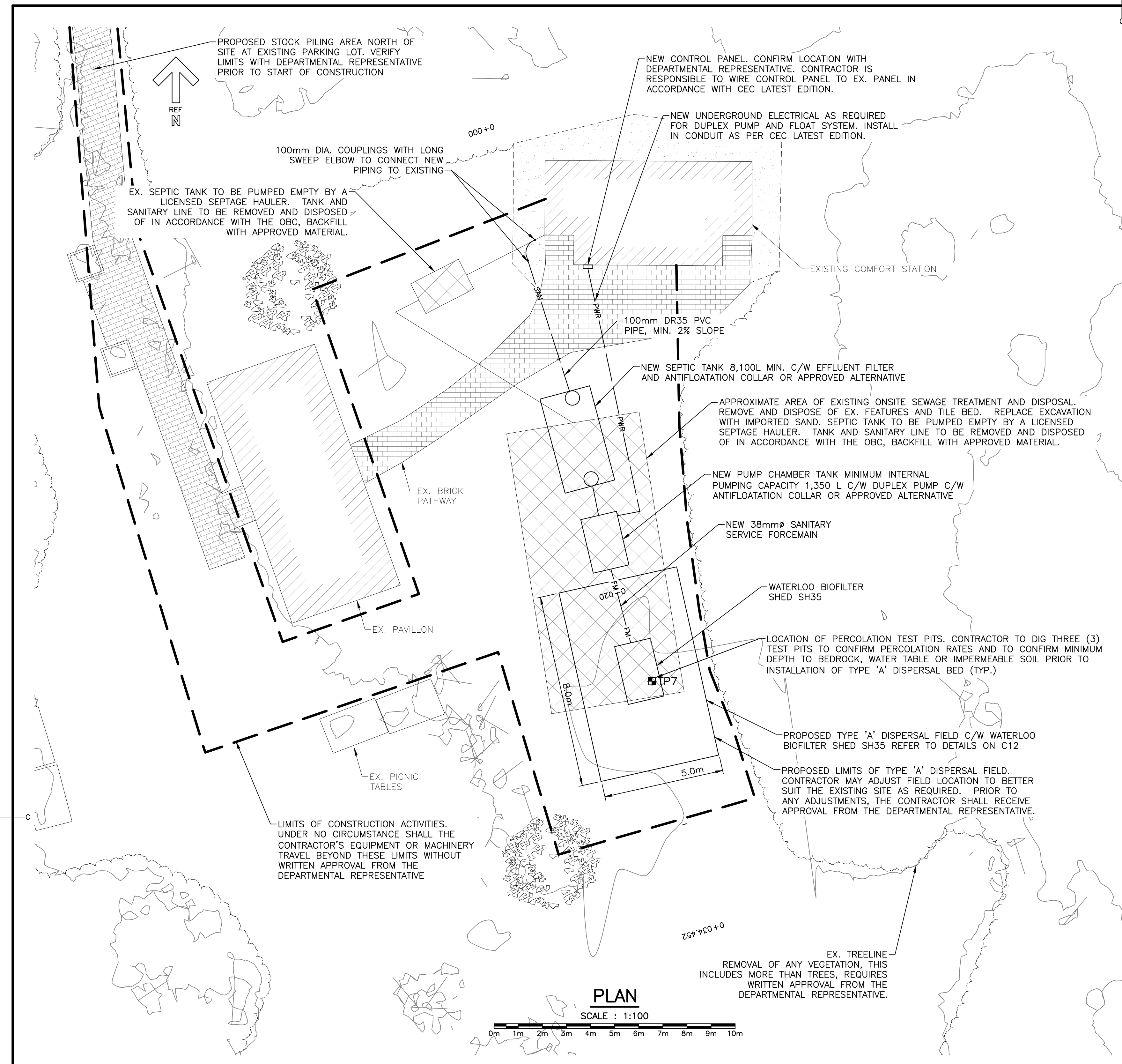
MONCTON 1077 boul. St. George Blvd. Saint-Jean, N.B. Canada T1E 2E5 Tel: (506) 857-2763 Fax: (506) 857-2765 ENGLOBE.CORP.COM

SANT JOHN 133 Piquet Wilson Street Saint-John, N.B. Canada A1B 2X6 Tel: (506) 858-6962 Fax: (506) 858-3250

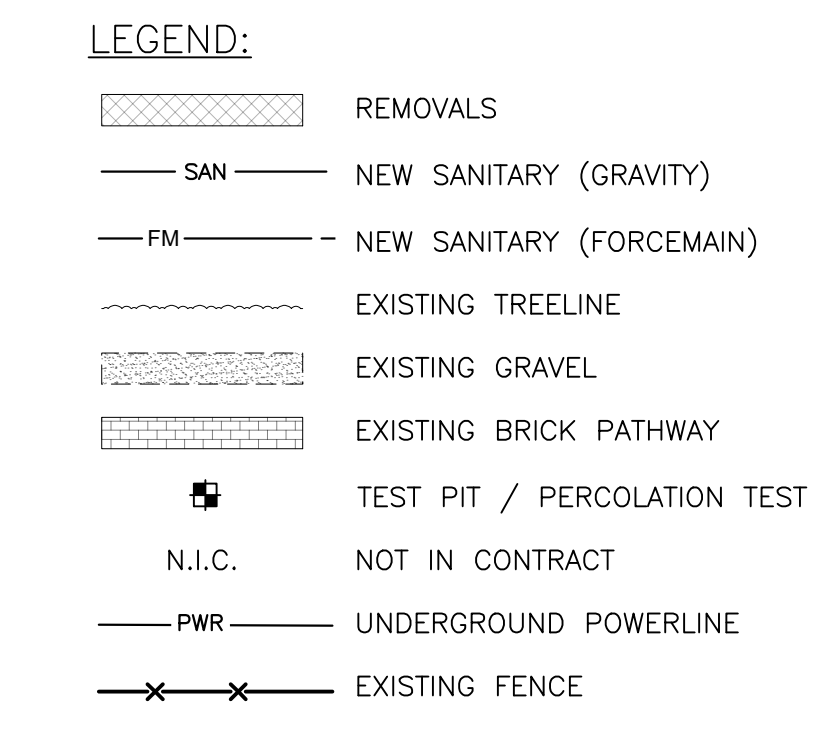
FREDERICTON 565 Pigeon Street Fredericton, N.B. Canada E3B 2G6 Tel: (506) 461-4400 Fax: (506) 693-3250



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	project
drawing	BLACK WILLOW ON-SITE SEWAGE TREATMENT UPGRADES	design
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNE CAMPEAU, P.ENG.	Soumission
PWSC Project Manager	Administrateur de projets TPSC	
project number	807	no. du projet
drawing no.	C07	no. du dessin



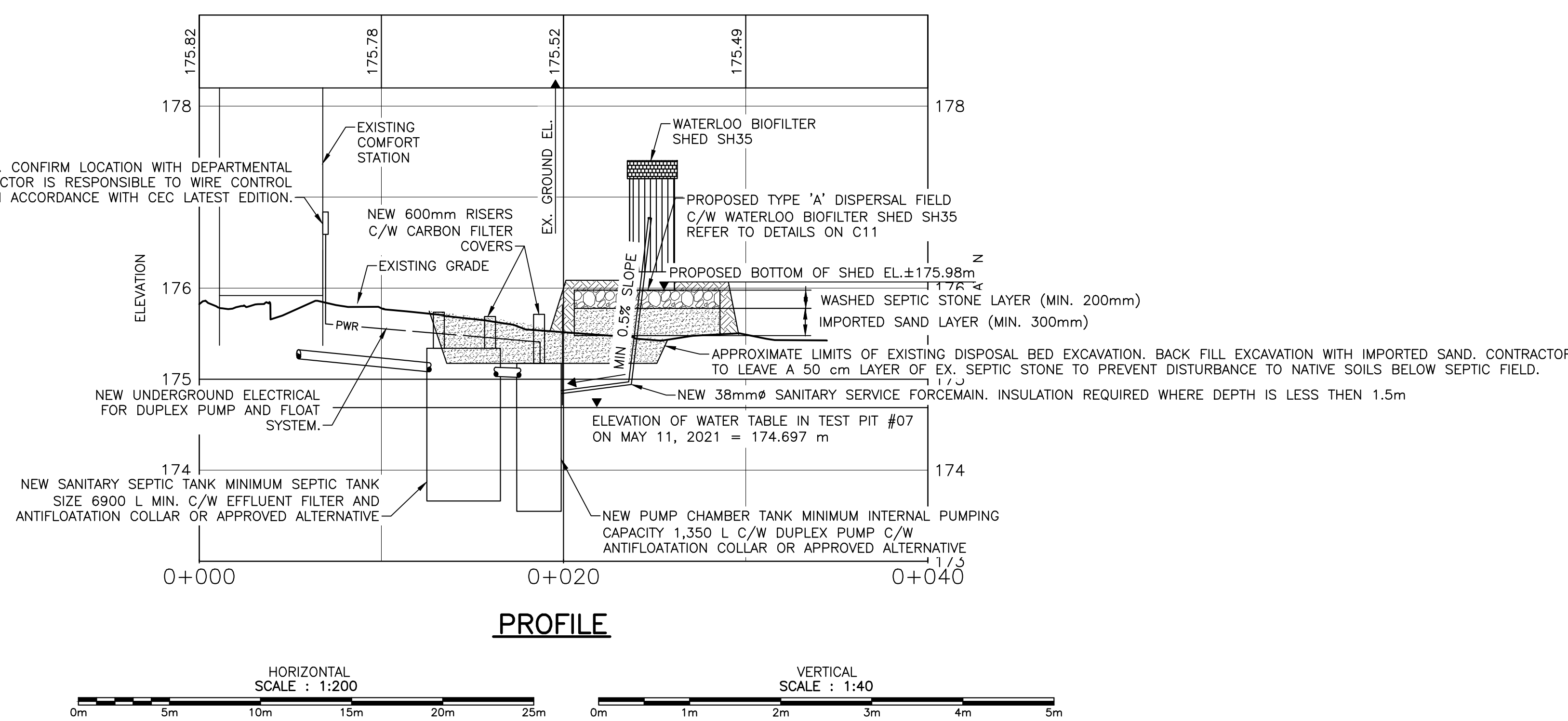
WHITE PINE	
DESIGN CRITERIA	
TYPE OF EFFLUENT	DOMESTIC FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2700 BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE: 13/254 FIXTURES 5.1% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	8,100 AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY (L)	1350 0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2-8 BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPERSAL BED MIN. STONE AREA (m ²)	36 WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m ²)	40
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m ²)	25 WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m ²)	40



GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE OF EXISTING BUILDING. DIRECT WIRING ONLY AND IN ACCORDANCE WITH CEC.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - STRUCTURE = 1.5m
 - PROPERTY LINE = 3m
 - DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES/DISPERSAL FIELD:
 - STRUCTURE = 5.0m
 - PROPERTY LINE = 3.0m
 - DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	374125.0	4644289.6	175.98



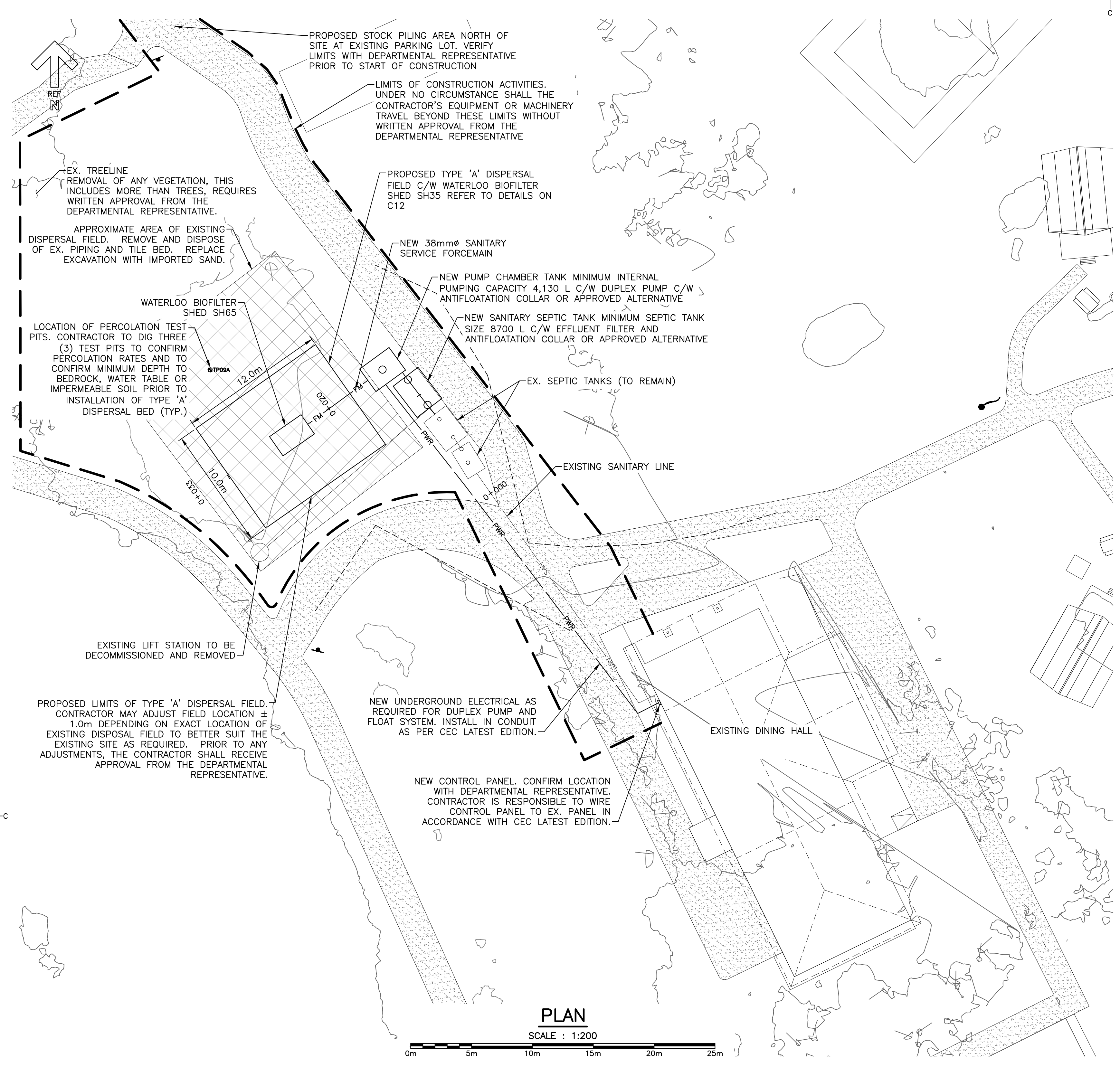
MONCTON 1077 boul. St. George Blvd. 100-400
 Fredericton, N.B. Canada
 Tel: (506) 857-2777
 Fax: (506) 857-2763
 ENGBLOBE.COM

SANT JOHN 133 Prince William Street
 Suite 200
 Saint John, N.B. Canada
 Tel: (506) 693-6882
 Fax: (506) 693-3250

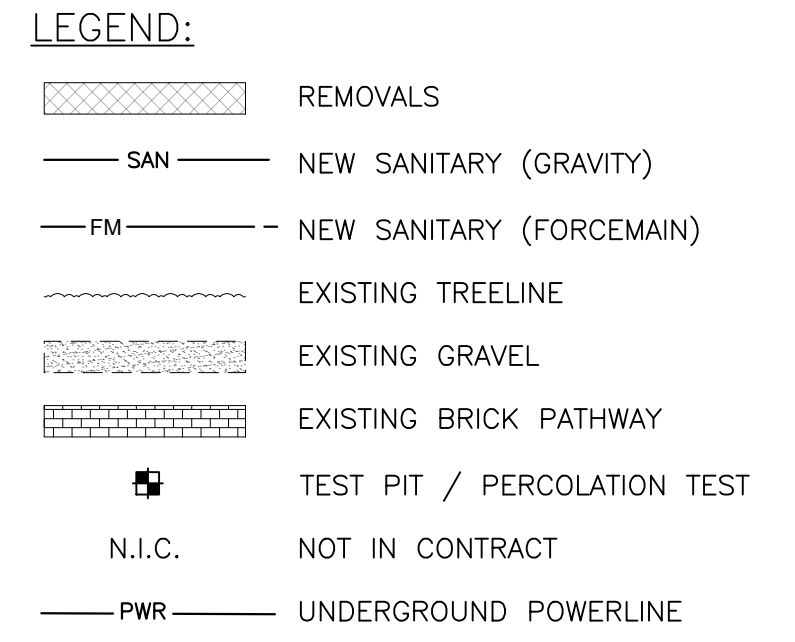
FREDERICTON 565 Pelargonium Street
 Suite 402
 Fredericton, N.B. Canada
 Tel: (506) 461-4400
 Fax: (506) 461-3250



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	
drawing	design	
designed	KYLE MCCONNELL, EIT	
date	MAY 31, 2021	
drawn	TERESA JONES	
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	
PWGC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
	807	
drawing no.	no. du dessin	
	C08	



CAMPGROUND SOUTH		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	5900	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 29/254 FIXTURES 11.4% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	EXISTING 5,455 L EXISTING 3,800 L NEW 8,700 L TOTAL 17,755 L	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	4,130	0.7 x Q (Q = >3000)
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2 - 20	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m²)	118.0	WHERE Q>3000 L/DAY A=Q/50
STONE AREA PROVIDED (m²)	120	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m²)	104.0	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m²)	120.0	

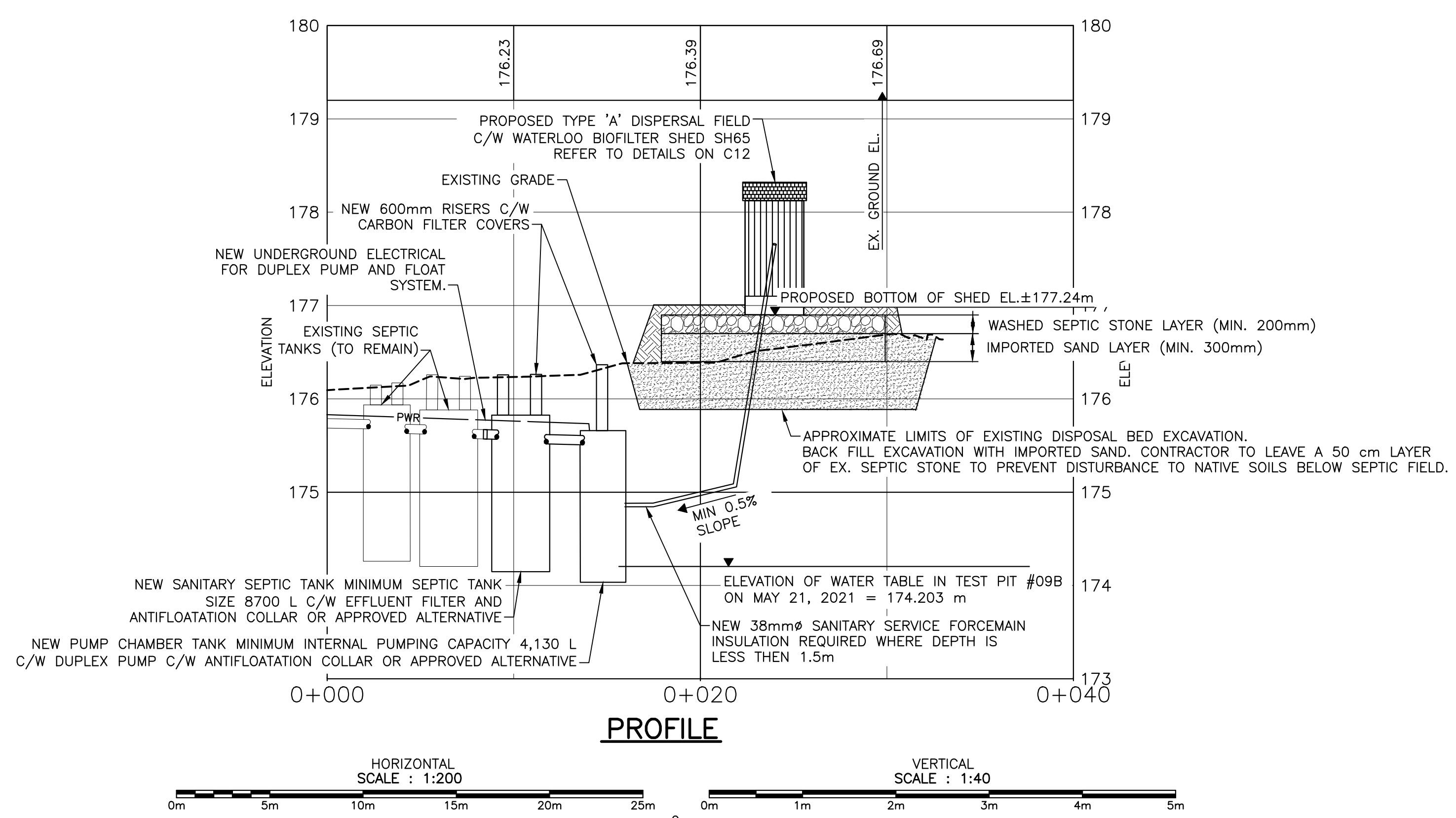


GENERAL NOTES:

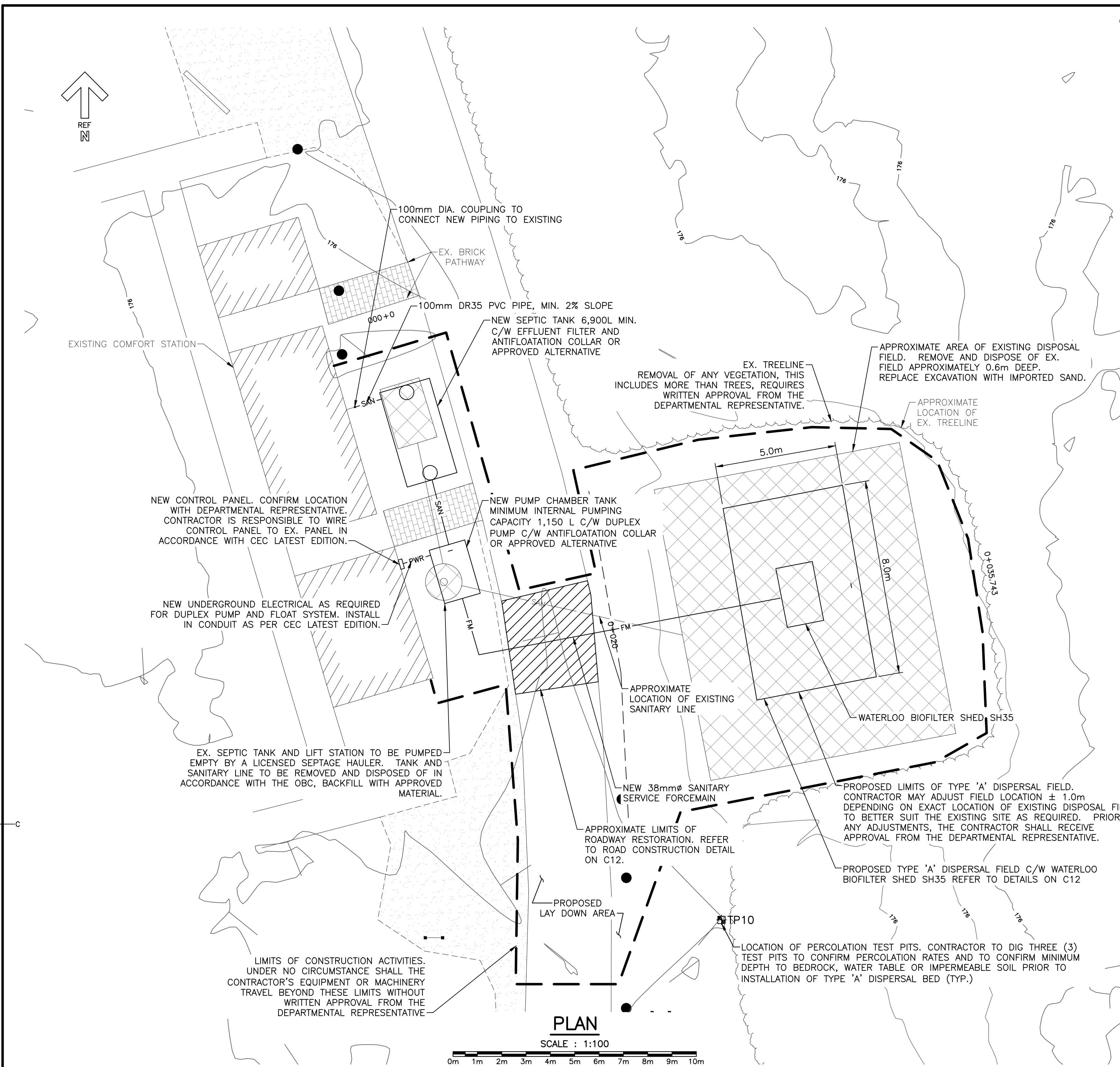
- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min/cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 500mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE ALL OF EXISTING BUILDING. DIRECT WIRING ONLY. ESA PERMIT REQUIRED.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - STRUCTURE = 1.5m
 - PROPERTY LINE = 3m
 - DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES:
 - STRUCTURE = 5.0m
 - PROPERTY LINE = 3.0m
 - DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N

	EASTING	NORTHING	BOTTOM OF SHED EL.
1	374390.0	4643793.2	177.24m



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	project
drawing	CAMPGROUND SOUTH (WEST/HENRY) ON-SITE SEWAGE TREATMENT UPGRADES	design
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drown	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Submission
PWSSC Project Manager	Administrateur de projets TPSSC	
project number	807	no. du projet
drawing no.	C09	no. du dessin



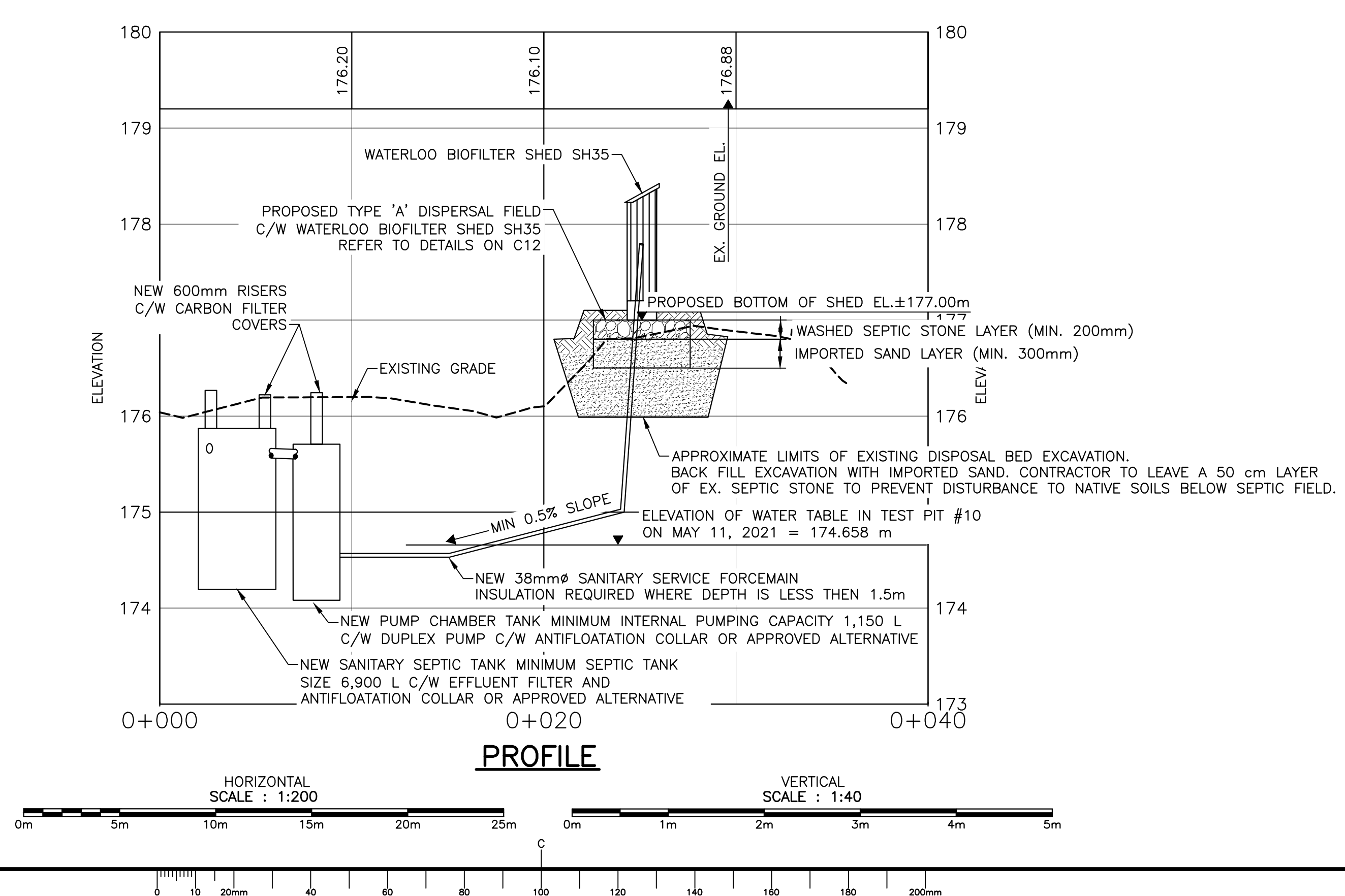
WEST BEACH 1		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2300	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 11/254 FIXTURES 4.3% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	6,900	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1150	0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2 - 8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m²)	31.0	WHERE Q<3000 L/DAY A=Q/75
STONE AREA PROVIDED (m²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m²)	22.0	WHERE A=QT/850 WHEN T<15min/cm
SAND AREA PROVIDED (m²)	40.0	

- LEGEND:**
- REMOVALS
 - SAN - NEW SANITARY (GRAVITY)
 - FM - NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. - NOT IN CONTRACT
 - PWR - UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO PERFORM THREE (3) PERCOLATION TESTS IN INSITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE ALL OF EXISTING BUILDING. DIRECT WIRING ONLY. ESA PERMIT REQUIRED.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - 18.1. STRUCTURE = 1.5m
 - 18.2. PROPERTY LINE = 3m
 - 18.3. DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES:
 - 19.1. STRUCTURE = 5.0m
 - 19.2. PROPERTY LINE = 3.0m
 - 19.3. DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	374265.7	4643609.6	177.00m



MONCTON 1077 Blvd. St. George Blvd. 1077
 506 853-2772
 Fax: (506) 851-2753
 ENGLLOBECORP.COM

SANT JOHN 132 Prince William Street 132
 506 252-2222
 Fax: (506) 993-2222

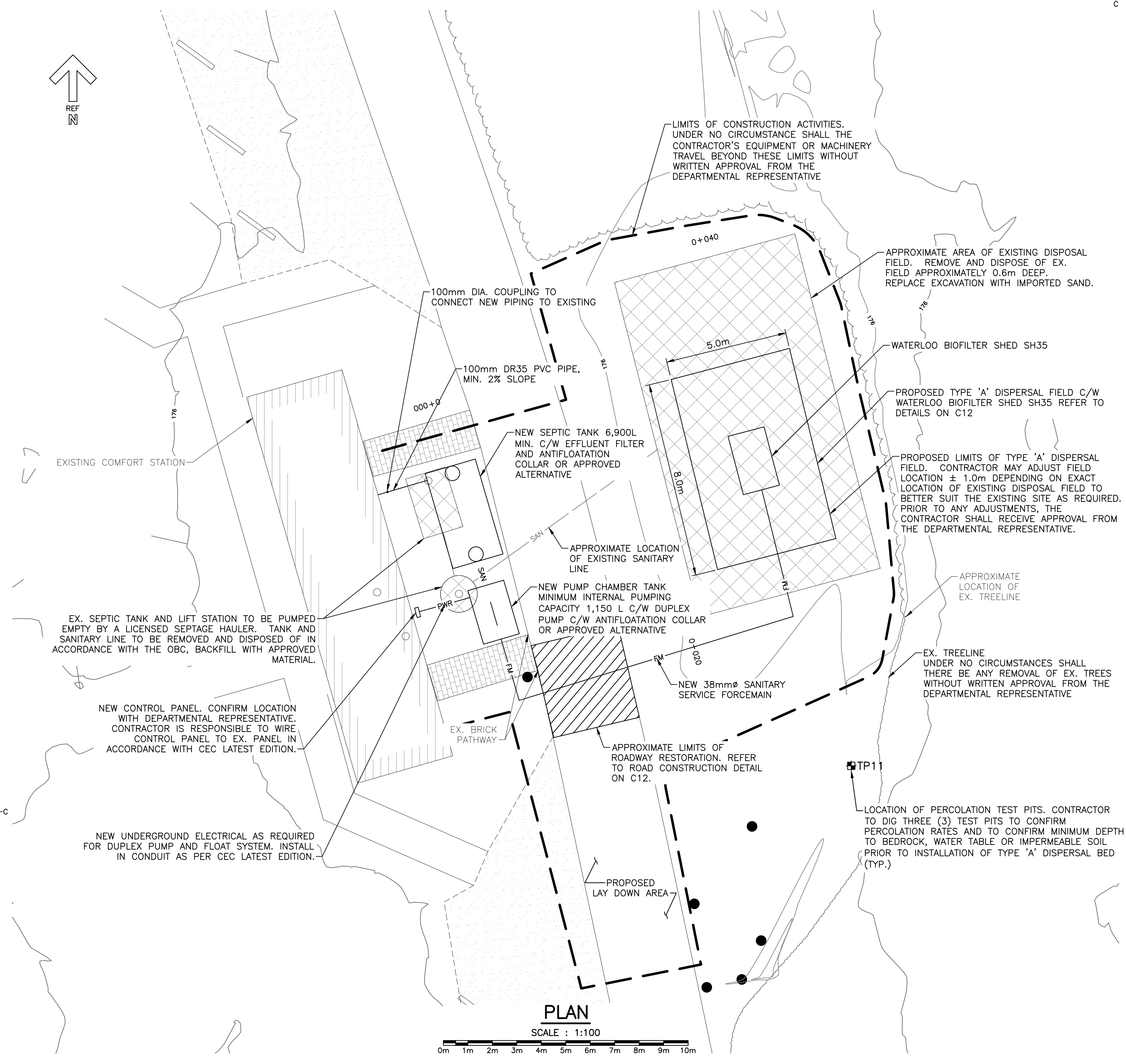
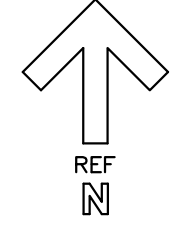
FREDERICTON 565 Pigeon Street 565
 506 845-4400
 Fax: (506) 845-4400



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	

WEST BEACH NO. 1 ON-SITE SEWAGE TREATMENT UPGRADES

designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Submission
Project Manager	Administrateur de projets TPSGC	
project number	807	no. du projet
drawing no.	C10	no. du dessin



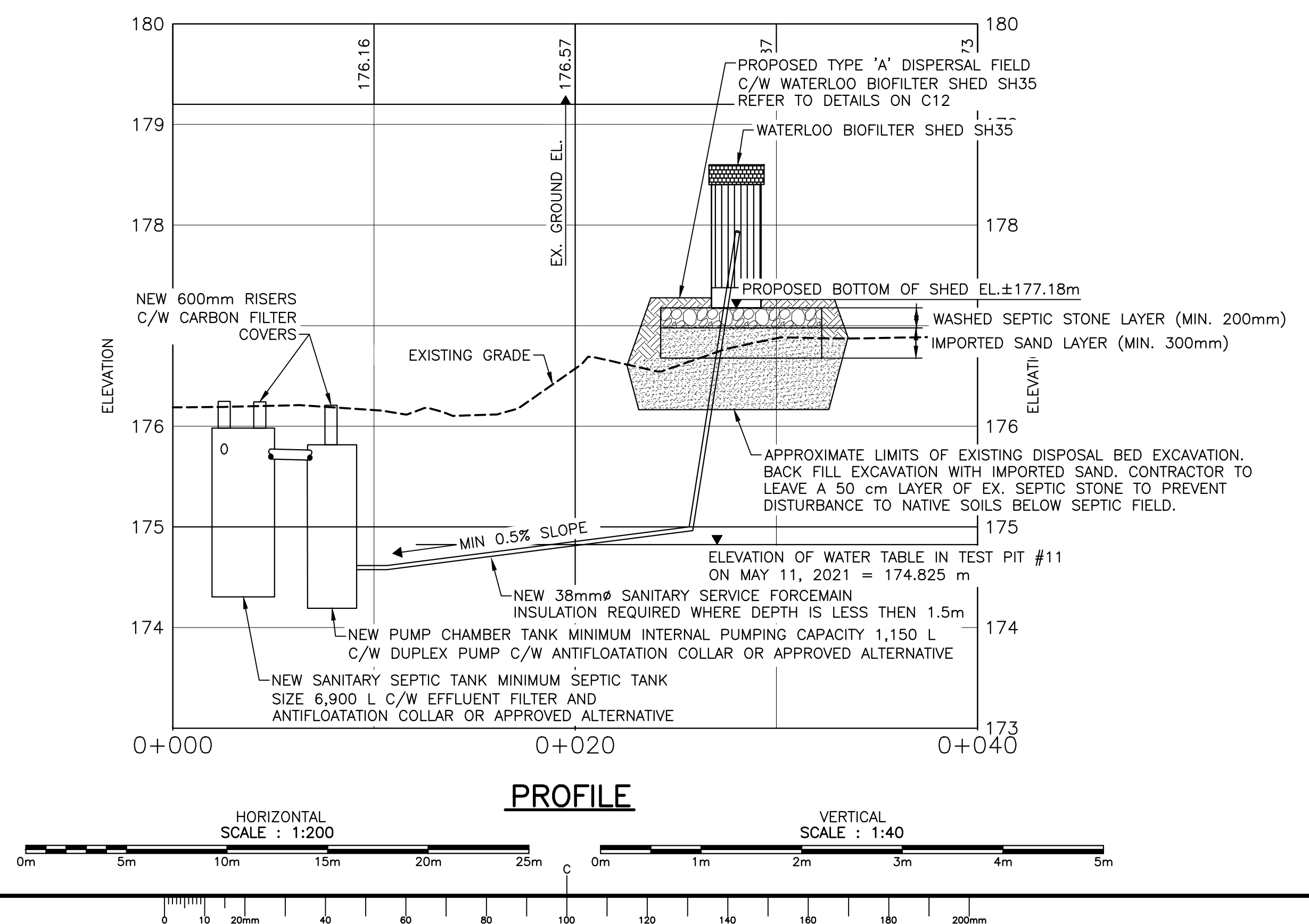
WEST BEACH 2		
DESIGN CRITERIA		
TYPE OF EFFLUENT	DOMESTIC	FROM COMFORT STATION
DESIGN FLOW (L/DAY) [Q]	2300	BASED ON FIXTURE COUNT ANALYSIS AND WATER USAGE. 15/238 FIXTURES 6.3% X PEAK DAILY DESIGN FLOW OF 51,000 L/DAY
PRE-TREATMENT [SEPTIC TANK SIZE] (L)	6,900	AS PER OBC, 3 x Q min.
EFFLUENT FILTER	YES	AS PER OBC
MINIMUM INTERNAL PUMPING CAPACITY SIZE (L)	1150	0.5 x Q
TREATMENT UNIT CLASSIFICATION	IV	AS PER OBC TABLE 8.6.2.2
EXISTING SOIL PERCOLATION RATE (MIN/CM) [T]	2 - 8	BASED ON IN-SITU SOIL TESTING AT TEST PIT LOCATED ON PLAN. TO BE VERIFIED BY CONTRACTOR.
TYPE 'A' DISPOSAL BED MIN. STONE AREA (m²)	31.0	WHERE $Q < 3000$ L/DAY $A = Q/75$
STONE AREA PROVIDED (m²)	40	
TYPE 'A' DISPERSAL BED MIN. SAND AREA (m²)	22.0	WHERE $A = QT/850$ WHEN $T < 15$ min/cm
SAND AREA PROVIDED (m²)	40.0	

- LEGEND:
- REMOVALS
 - NEW SANITARY (GRAVITY)
 - FM NEW SANITARY (FORCEMAIN)
 - EXISTING TREELINE
 - EXISTING GRAVEL
 - EXISTING BRICK PATHWAY
 - TEST PIT / PERCOLATION TEST
 - N.I.C. NOT IN CONTRACT
 - PWR UNDERGROUND POWERLINE

GENERAL NOTES:

- CONTRACTOR TO FORM THREE (3) PERCOLATION TESTS IN SITU SOILS PRIOR TO CONSTRUCTION OF NEW SEPTIC SYSTEMS TO CONFIRM SOIL CONDITION. PERCOLATION TEST LOCATIONS TO BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO VERIFY EXISTING SANITARY INVERTS PRIOR TO INSTALLATION OF NEW SYSTEM. NOTIFY DEPARTMENT REPRESENTATIVE IF CONFLICTS ARISE.
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.
- THIS DRAWING IS NOT A LEGAL SURVEY, A UTILITY PLAN OR A SITE PLAN AND IS FOR SEPTIC PURPOSES ONLY.
- REMOVE AND DISPOSE OF EXISTING SEPTIC TANK, PIPING AND DISPOSAL BED. BACKFILL SEPTIC TANK AND PIPING VOID WITH APPROVED COMPACTED BACKFILL MATERIAL. BACKFILL DISPOSAL BED EXCAVATION WITH IMPORTED SAND. MINIMIZE HEAVY EQUIPMENT TRAFFIC ON DISPOSAL FIELD.
- PERCOLATION RATE OF ANY IMPORTED SAND FOR BED TO BE 6 TO 8 MIN/CM, WITH <5% PASSING THE #200 (0.080 mm) SIEVE.
- STONE LAYER TO BE WASHED SEPTIC STONE, FREE OF FINE MATERIAL, WITH GRADATION CONFORMING TO OBC TABLE 8.7.3.3.A.
- THE SEPTIC SYSTEM LEACHING BED IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SEPTIC SYSTEM AND TREATED WITH 100 mm PERMEABLE TOPSOIL (BACKFILL MATERIAL TO HAVE A T-TIME OF LESS THAN 20 min./cm AS PER OBC REQUIREMENTS) AND SHALL BE VEGETATED AS SOON AS POSSIBLE. GRASS GROWTH TO BE ESTABLISHED.
- INSTALL EFFLUENT FILTER ON OUTLET OF SEPTIC TANKS AS PER OBC REQUIREMENTS.
- EXTEND RISERS AND COVERS FOR BOTH INLET AND OUTLET ACCESS HOLES TO GROUND SURFACE, MINIMUM 50mm ABOVE GRADE.
- GRADE SURFACE OVER TANK TO DIRECT SURFACE WATER AWAY FROM TANK AREA.
- SEPTIC SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE OBC.
- SEPTIC TANKS TO MEET CRITERIA DESCRIBED IN THE OBC.
- NO SILTY CLAY OR LAYER OF SILTY MATERIAL TO BE PLACED AROUND OR OVER LEACHING BED.
- ALL CHANGES TO THIS DESIGN MUST BE VERIFIED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE PRIOR TO MAKING ANY MODIFICATIONS.
- FORCEMAIN TO BE INSTALLED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES AND INSULATED AS NECESSARY TO PROVIDE 1.8m OF EQUIVALENT SOIL COVER. THE FORCEMAIN IS TO DRAIN BACK FROM THE TILE BED TO THE PUMPING CHAMBER.
- CONTROL PANEL FOR THE PUMP AND ALARM ASSEMBLY TO BE LOCATED ON OUTSIDE ALL OF EXISTING BUILDING. DIRECT WIRING ONLY. ESA PERMIT REQUIRED.
- MINIMUM CLEARANCE FROM TREATMENT UNIT TO:
 - STRUCTURE = 1.5m
 - PROPERTY LINE = 3m
 - DRILLED WELL = 15m
- MINIMUM CLEARANCE FROM DISTRIBUTION PIPES:
 - STRUCTURE = 5.0m
 - PROPERTY LINE = 3.0m
 - DRILLED WELL = 15m
- ALL INVERT ELEVATIONS AND LOCATIONS ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY DEPTHS AND LOCATIONS PRIOR TO START OF INSTALLATION. NOTIFY DEPARTMENTAL REPRESENTATIVE WHEN DISCREPANCIES ARE OBSERVED.
- ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH 100mm TOPSOIL AND HYDROSEED. SALVAGE AND REUSE EXISTING TOPSOIL WHERE POSSIBLE.

PROPOSED LOCATION OF SH35 (CENTER) NAD83 (CSRS) UTM ZONE 17N			
	EASTING	NORTHING	BOTTOM OF SHED EL.
1	374321.7	4643409.0	177.18m



Parcs Canada Parks Canada

Englobe

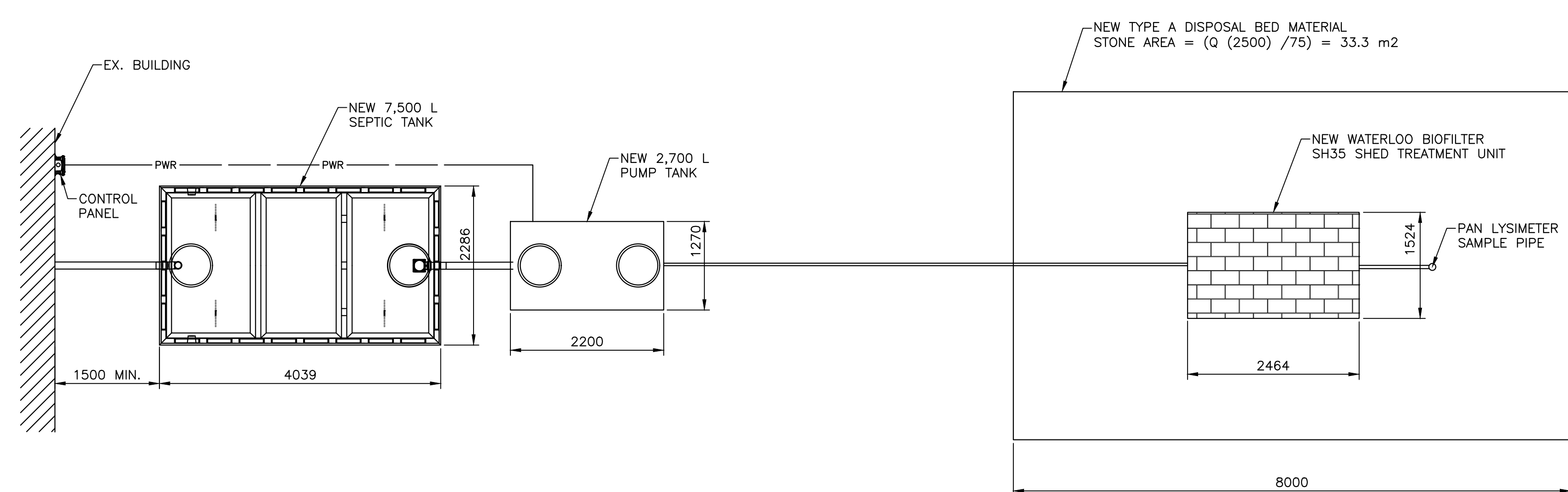
MONCTON: 1077 Ave. St. George Blvd. Suite 402, Moncton, N.B. Canada B1R 1K2. Tel: (506) 851-2772, Fax: (506) 851-2753, ENGLGLOBE@COMPUSE.COM

SANT JOHN: 132 Prince William Street Suite 201, Saint John, N.B. Canada A1B 2X9. Tel: (506) 851-2772, Fax: (506) 943-2550

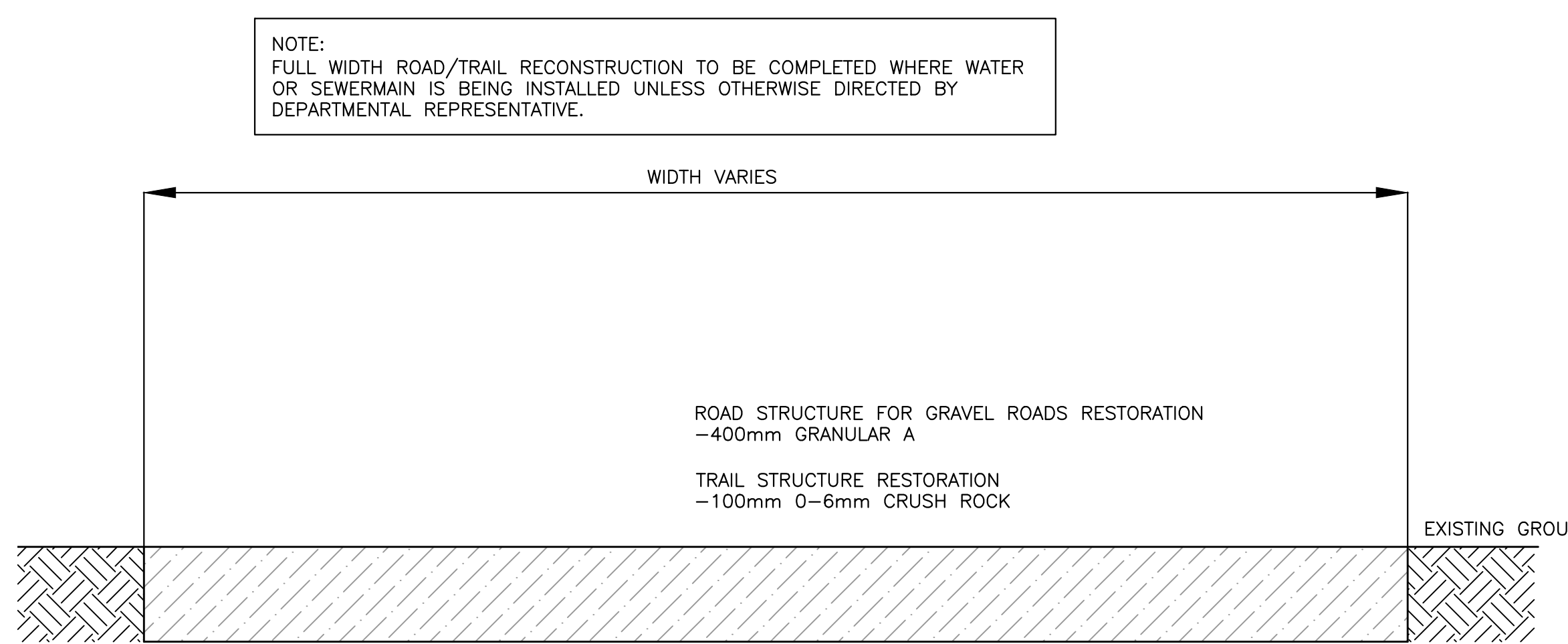
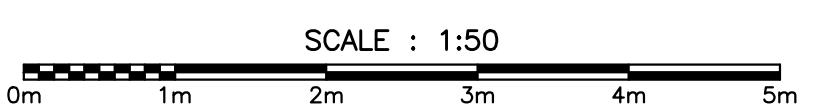
FREDERICTON: 565 Fitzgerald Street Suite 400, Fredericton, N.B. Canada E3B 2Z4. Tel: (506) 451-4400, Fax: (506) 943-2550



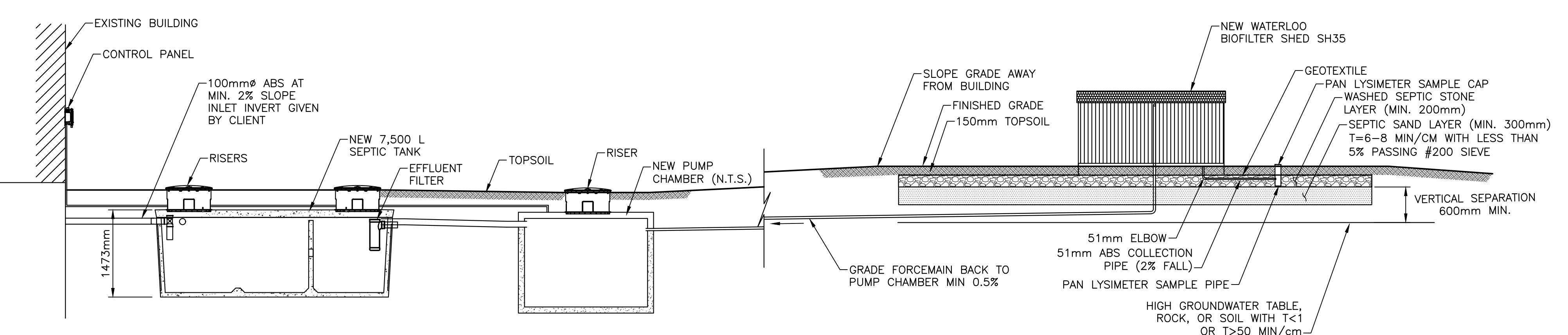
0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	project
drawing	WEST BEACH NO. 2 ON-SITE SEWAGE TREATMENT UPGRADES	dessin
designed	KYLE MCCONNELL, EIT	conçu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNIE CAMPEAU, P.ENG.	Submission
IPWGC	Project Manager	Administrateur de projets IPWGC
project number	807	no. du projet
drawing no.	C11	no. du dessin



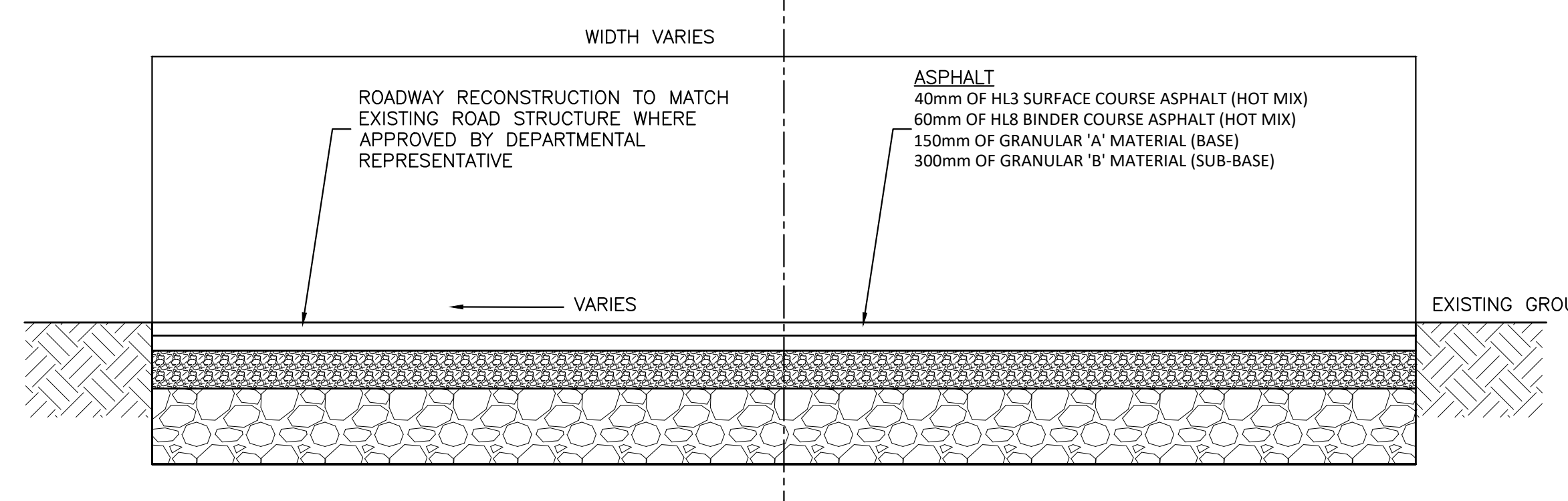
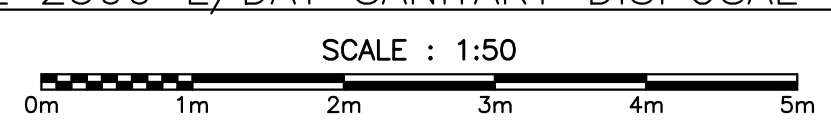
DETAIL - TYPICAL 2500 L/DAY SANITARY DISPOSAL SYSTEM LAYOUT



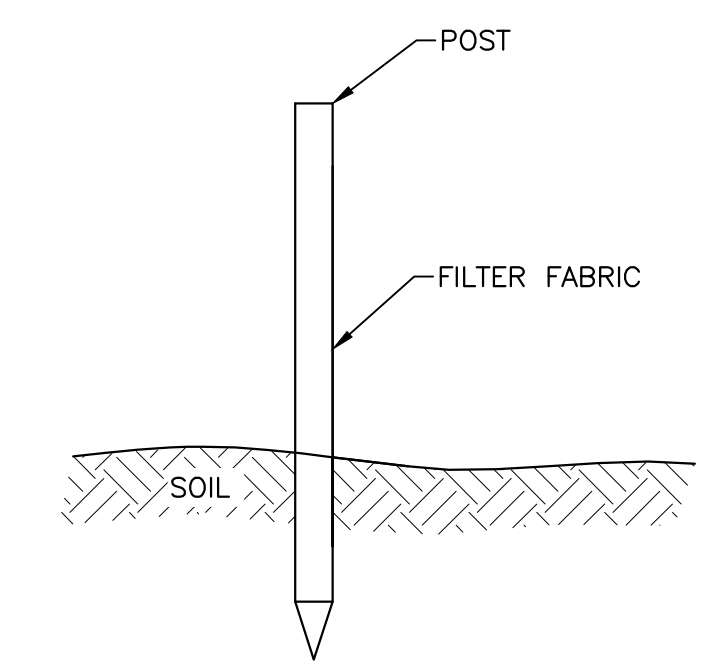
TYPICAL TRAIL RECONSTRUCTION DETAIL:
N.T.S.



DETAIL - TYPICAL 2500 L/DAY SANITARY DISPOSAL SYSTEM SECTION

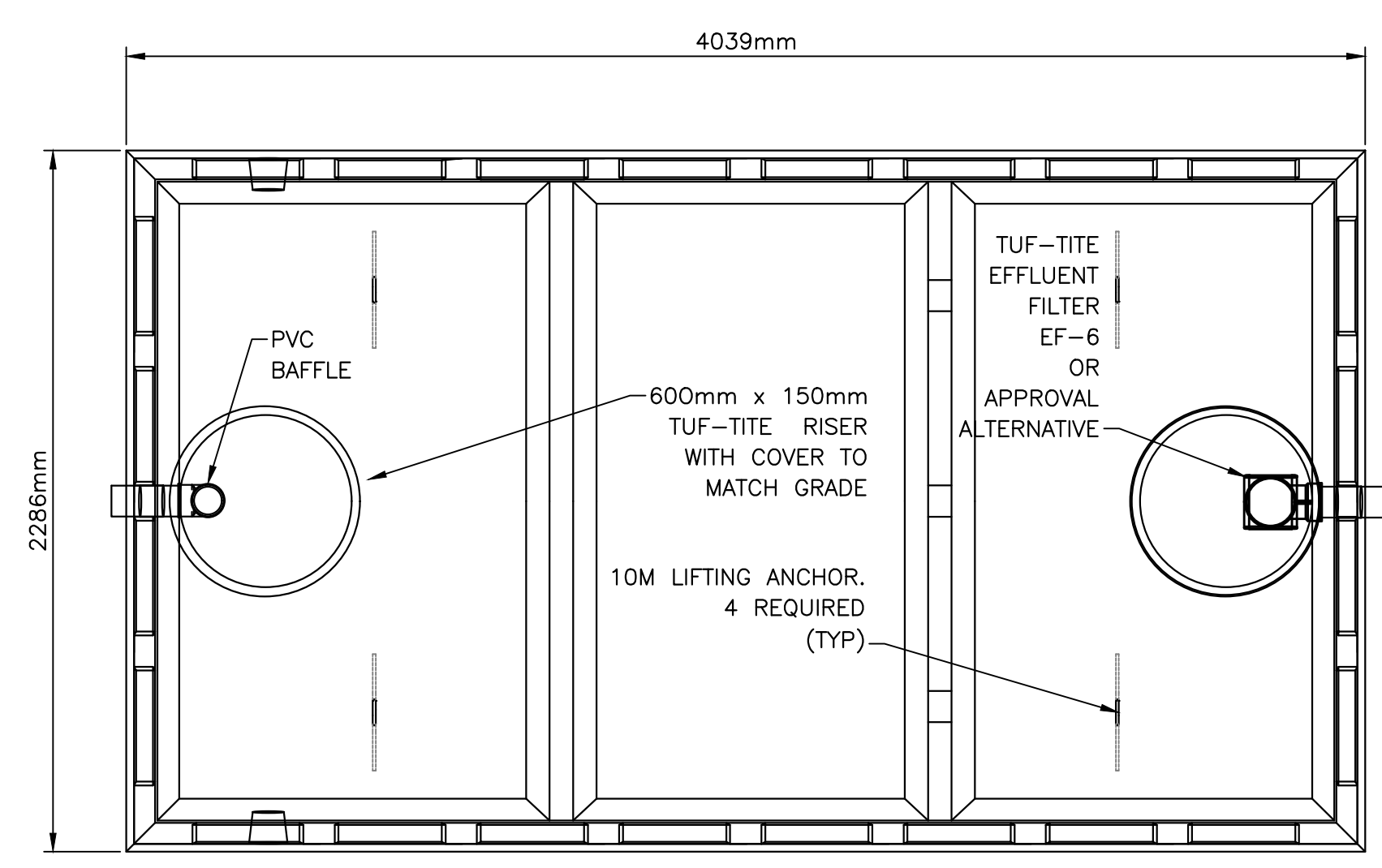


TYPICAL ROAD RECONSTRUCTION DETAIL
N.T.S.

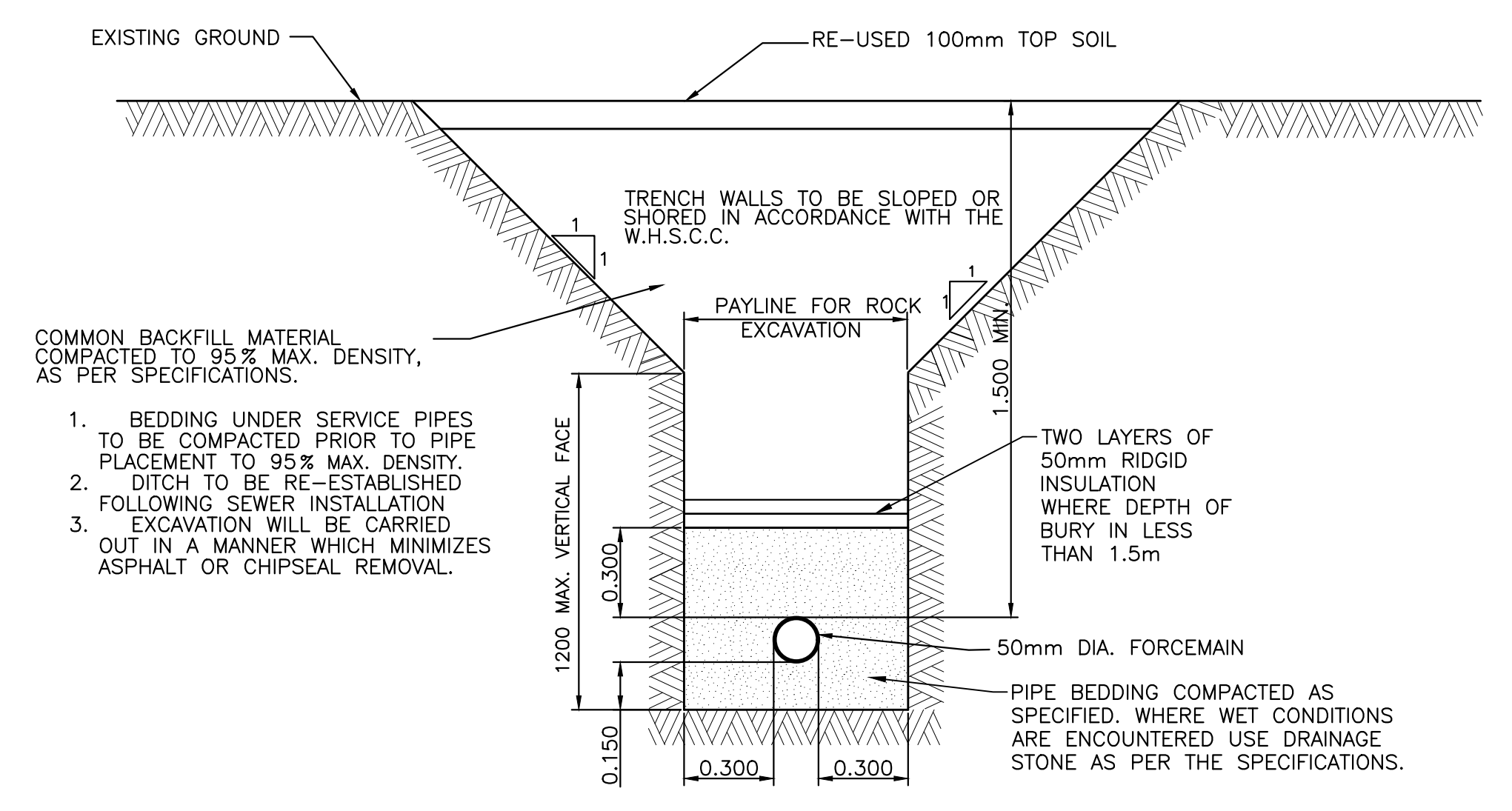


DETAIL - TYPICAL SILT FENCE
N.T.S.

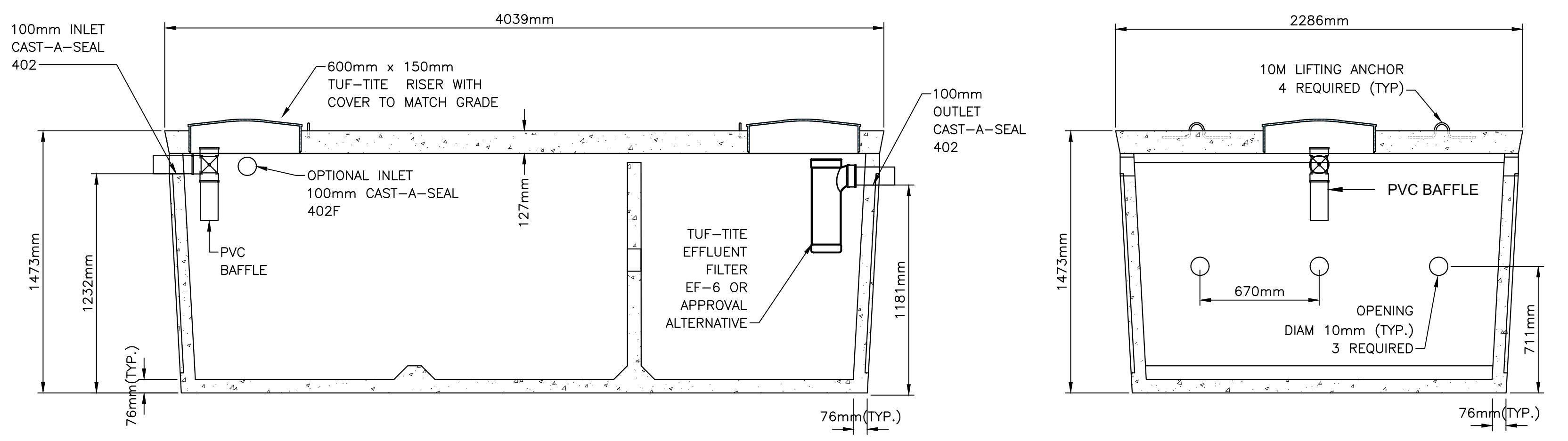
- INSTALLATION OF GEOTEXTILE SILT FENCE**
1. DRIVE STURDY STAKES, SPACED 3000mm APART, INTO THE GROUND ALONG THE DOWNSLOPE SIDE OF THE TRENCH.
 2. INSTALL THE FILTER FABRIC FROM A CONTINUOUS ROLL AND CUT TO REQUIRED LENGTH. THE FILTER FABRIC SHOULD BE STAPLED TO THE UPSTREAM SIDE OF THE STAKES, EXTENDING THE BOTTOM 200mm INTO THE TRENCH.
 3. BACKFILL AND COMPACT THE SOIL INTO THE TRENCH OVER THE FILTER FABRIC.
 4. REFER TO SPECIFICATIONS FOR FURTHER DETAILS.
 5. SILT FENCE TO BE INSTALLED AROUND PERIMETER OF STOCKPILES. PRIOR TO INSTALLATION OF SEDIMENT FENCING IN OTHER AREAS THE CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM DEPARTMENTAL REPRESENTATIVE.



- GENERAL NOTES:**
1. UNITS ARE SEALED WITH BUTYL TAPE AT THE JOINTS
 2. DELIVERY IS MADE BY CRANE-EQUIPPED TRUCKS
 3. EXCAVATION MUST BE READY, SAFE AND ACCESSIBLE FOR UNLOADING FROM THE REAR OF THE TRUCK.
 4. MIN OVERHEAD CLEARANCE OF 18FT (5.5 METERS) IS REQUIRED
 5. ALL UNITS MUST BE HANDLED WITH PROPER LIFTING EQUIPMENT
 6. MAXIMUM BURIAL DEPTH = 1 METRE IN FIRM SOIL AWAY FROM ANY VEHICULAR TRAFFIC
 7. ALL TANKS TO INCLUDE ANTIFLOATION COLLAR OR APPROVED ALTERNATIVE.



DETAIL - SINGLE PIPE TRENCH
N.T.S.



TYPICAL 8,000L LOW HEIGHT SEPTIC TANK DETAIL
N.T.S.



0	ISSUED FOR TENDER	AUG. 23 2021
revisions		date
project	POINT PEELE NATIONAL PARK ON-SITE SEWAGE TREATMENT AND SITE FACILITIES UPGRADES	project
drawing	MISCELLANEOUS SECTIONS AND DETAILS	design
designed	KYLE MCCONNELL, EIT	conqu
date	MAY 31, 2021	
drawn	TERESA JONES	dessiné
date	MAY 31, 2021	
approved	LISA GRASSE, P.ENG.	approuvé
date	MAY 31, 2021	
Tender	ANNE CAMPEAU, P.ENG.	Submission
Project Manager	Administrateur de projets TPSC	
project number	807	no. du projet
drawing no.	C12	no. du dessin