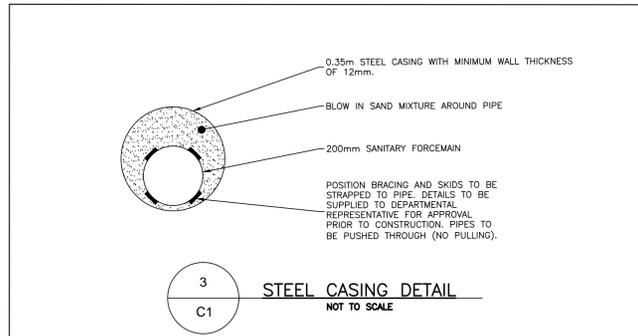
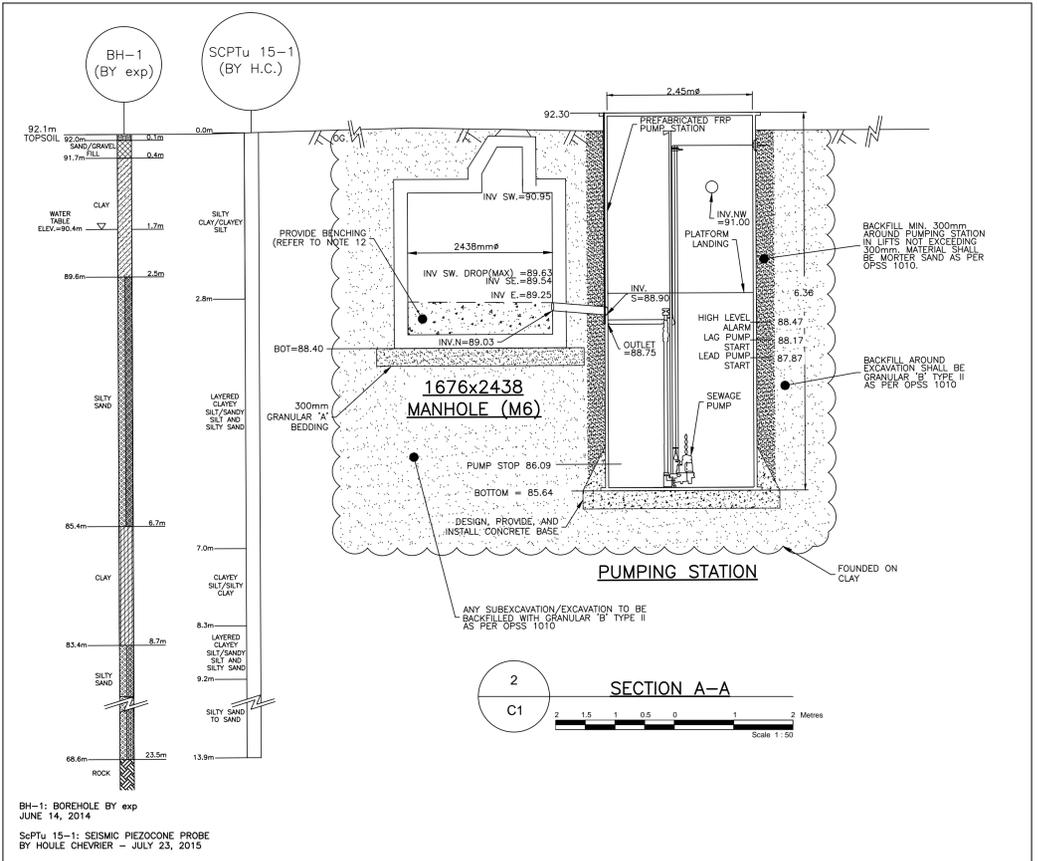


**DRAWING NOTES**

1. PROVIDE NEW 50mm DIAMETER PVC VENT TO BE BURIED A MINIMUM OF 600mm AND EXTENDED TO THE BUILDING. USE AN APPROVED PVC TO STEEL COUPLER TO TRANSITION FROM PVC TO STEEL ONCE THE VENT IS JUST BELOW FINISHED GRADE. USE SCHEDULE 10 STAINLESS STEEL PIPE TO EXTEND THE VENT PIPE 5 METERS UP THE EXTERIOR BUILDING WALL COMPLETE WITH GOOSENECK. PROVIDE STAINLESS STEEL SUPPORTS EVERY 1.5m ON THE EXTERIOR OF THE BUILDING TO SECURE THE VENT PIPE. PROVIDE DESIGN SHOP DRAWINGS FOR SUPPORT SYSTEMS.
2. CONTRACTOR TO REFER TO SPECIFICATIONS AND VERIFY LOCATION OF ALL EXISTING SERVICES INCLUDING ALL EXISTING SANITARY AND STORM ELEVATIONS PRIOR TO ORDERING STRUCTURES. REFER TO SPECIFICATION 31.23.33.01.
3. TRANSITION CHAMBER-600X600 PRECAST STRUCTURE AS PER OPSD 705.010 WITH BENCHED BOTTOM AS PER OPSD 701.021. DO NOT PROVIDE SLUMP. PROVIDE FRAME AND COVER WITHOUT OPENINGS AS PER OPSD 401.030. PROVIDE INSULATION AROUND STRUCTURE TO A DEPTH OF 1.5m FROM THE TOP OF THE STRUCTURE AS PER DETAIL 3/C2. ALL INLETS AND OUTLETS SHALL BE WATER TIGHT USING GASKETS OR APPROVED EQUIVALENT.
4. CONTRACTOR TO REMOVE EXISTING SIDEWALK AND REINSTATE AS PER OPSD 310.010
5. CONTRACTOR SHALL CAREFULLY DISMANTLE THE EXISTING STEEL STORAGE SHED STRUCTURE AND STEEL SHEETING AND STORE THE COMPONENTS ON SITE. DURING THE CONSTRUCTION OF NEW WORKS AND DEMOLITION OF EXISTING WORKS, THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING STORAGE SHED CONCRETE SLAB AS REQUIRED. AS PART OF SITE REINSTATEMENT, THE CONTRACTOR SHALL REBUILD THE STORAGE SHED STRUCTURE.
6. EXISTING 3m X 3m X 3m CONCRETE PUMPING STATION TO BE DECOMMISSIONED. WALLS OF EXISTING PUMPING STATION TO BE DEMOLISHED AND REMOVED OFF SITE TO A DEPTH OF 1.8m BELOW ORIGINAL GROUND. PUMPING STATION TO BE DEMOLISHED 0.6m BELOW THE INVERT OF THE LOWEST PIPE. EXCAVATION TO BE BACKFILLED WITH OPSD 1010 GRANULAR 'B' TYPE 2 PLACED IN 300mm LIFTS, COMPACTED TO 95% STANDARD PROCTOR DENSITY. PUNCH HOLES IN BOTTOM OF PUMPING STATION AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
7. FORCEMAN IS 2.4m BELOW GROUND AND MATERIAL IS PVC. CONTRACTOR TO INSTALL THRUST BLOCK AS PER OPSD 1103.010 & OPSD 1103.021. NEW SEWER TO CONNECT TO EXISTING FORCEMAN.
8. 1676mm X 2438mm SANITARY MANHOLE (M6) SUPPLIED BY THE CROWN. MANHOLE TO BE BENCHED AS PER OPSD 701.021 AND INSTALLED BY THE CONTRACTOR. FRAME AND COVER PROVIDED AS PER OPSD 401.030.
9. 2.4m X 1.52m X 1.83m DILUTION TANK AND VENT TO BE REMOVED AND DISPOSED OFF SITE. FILL WITH SELECT SUBGRADE MATERIAL (SSM).
10. INSTALL EXTERNAL DROP PIPE AS PER OPSD 1003.010
11. INSTALL 10.0m OF 0.35m $\phi$  STEEL CASING UNDER FUTURE BUILDING WITH MINIMUM WALL THICKNESS OF 12mm. STEEL PIPE CASING TO CONFORM TO OPSD 1802. REFER TO DETAIL 3/C1.
12. FORCEMAN IS 2.4m BELOW GROUND AND MATERIAL IS PVC. CONTRACTOR TO INSTALL THRUST BLOCK AS PER OPSD 1103.010 & OPSD 1103.021. NEW SEWER TO CONNECT TO EXISTING FORCEMAN.

**GENERAL NOTES**

13. ALL MATERIALS AND CONSTRUCTION METHODS TO THE LATEST EDITION OF THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARD DRAWINGS.
14. ALL UNITS ARE IN METERS OR MILLIMETERS UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO COMPLETE THIS WORK TO STANDARDS SPECIFIED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND TRENCHING ALONG WITH BACKFILL AND BEAR COST OF SAME.
17. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL CONNECTIONS INTO THE EXISTING SEWERS.
18. SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
19. AS-BUILT "SITE PLAN" WILL BE MAINTAINED ON SITE BY THE CONTRACTOR.
20. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATION OF ADJACENT BUILDINGS DURING EXCAVATION AND CONSTRUCTION PERIOD.
21. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE.
22. CONTRACTOR TO REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE (i.e. STUMPS, LARGE ROOTS, ANY CONSTRUCTION DEBRIS, CONCRETE, ASPHALT, ROCK etc.).
23. ALL TRENCH EXCAVATIONS SHALL BE ACCORDING TO THE ONTARIO HEALTH AND SAFETY ACT CLAUSE 234 AND SITE CONDITIONS.
24. THE CONTRACTOR MAY IMPORT GRANULAR MATERIAL TO PROVIDE A WORKING AREA. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL IMPORTED MATERIALS AND RETURNING THE SITE TO ITS ORIGINAL GRADES, OR NEW GRADES, AS SHOWN ON THE DRAWINGS.
25. ALL MANHOLES HAVING A GREATER DEPTH THAN 5.0 METERS FROM TOP OF GRATE ELEVATION TO THE CENTER OF PIPE OUTLET SHALL HAVE SAFETY PLATFORM INSTALLED AT MID POINT ELEVATION AS PER OPSD 404.020.
26. ALL NEW SEWERS, SERVICES, AND THE EXISTING PORTION OF THE SANITARY FORCEMAN ARE TO BE VIDEO INSPECTED FOR APPROXIMATELY 100 METRES UP TO THE PORTION OF THE BEND TO RIVER ROAD.
27. SEWER TRENCH SHALL CONSIST OF A CLASS 'B' BEDDING CONSISTING OF 150mm OF GRANULAR 'A' BEDDING AND BACKFILLED WITH GRANULAR 'A' TO 300mm OVER SEWER. COMPACTION SHALL BE ACHIEVED TO 300mm OVER SEWER TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
28. ALL EXISTING SANITARY PIPING, MANHOLES, AND CHAMBERS MARKED FOR REMOVAL ARE TO BE REMOVED AND DISPOSED OF OFF-SITE.
29. EXISTING FORCEMAN IS APPROXIMATELY 1000 METERS FROM THE PUMPING STATION TO THE HIGH POINT IN THE SYSTEM. EXISTING FORCEMAN IS 150mm $\phi$  PVC.



**LEGEND**

—	EXISTING SANITARY SEWER
—	EXISTING STORM SEWER
—	NEW KEYED-IN ASPHALT LIMIT
—	NEW SANITARY SEWER
X X X	EXISTING SANITARY SEWER TO BE REMOVED
BH-1	EXISTING BOREHOLE
SCPTu	EXISTING SEISMIC PIEZOCONE PROBE
MW	NEW MONITORING WELL

5	ISSUED FOR ADDENDUM #1	AUG 16, 2016
4	ISSUED FOR TENDER	JUN 15, 2016
3	ISSUED FOR 100%	APR 22, 2016
2	RE-ISSUED FOR REVIEW	MAR 21, 2016
1	ISSUED FOR 99% REVIEW	MAR 02, 2016
0	ISSUED FOR REVIEW	FEB 03, 2016

revisions	description	date
A	As built	As built
B	As built	As built
C	As built	As built

**SEWAGE LIFT STATION UPGRADE DESIGN**

335 RIVER ROAD  
OTTAWA, ONTARIO

**SITE SERVICING PLAN**

designed	concou
date	FREDERIC LACASSE P.ENG
drawn	desiné
date	MATTHEW KELLEY EIT
revised	revisé
date	MATTHEW KELLEY EIT
approved	approuvé
date	STEVEN BURDEN P.ENG
Tender	ELENA CHARIVKER
PWC Project Manager	Administrateur de projet
project no.	no. du projet
R.065055.002	
drawing no.	no. du dessin
C1	