PINCHIN WEST

FINAL

Drinking Water Quality Investigation

2790 Tims Street
Abbotsford, British Columbia

Prepared for:

School District #34

2790 Tims Street
Abbotsford, British Columbia, V2T 4M7

Attn: Josh Currie
Manager, Electrical & Mechanical

September 29, 2016

PWL File: 13794Hr01

MEMBER OF THE PINCHIN GROUP

Issued to:	**School District #34**
Contact:	**Josh Currie** **Manager, Electrical & Mechanical**
Issued on:	**September 29, 2016**
PWL file:	**13794Hr01**
Issuing Office:	**Suite 200, 13775 Commerce Parkway,** **Richmond, BC V6V 2V4**
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EXECUTIVE SUMMARY

Pinchin West Ltd. (PWL) was retained by Josh Currie of School District #34 (Client) to conduct a diagnostic Drinking Water Quality Investigation (DWQI) of select facilities within the Abbotsford School District #34, all located within Abbotsford, British Columbia.

The DWQI was conducted in response to a request received from the Client to assess the quality of drinking water on 21 sites that had been previously sampled by the Client, and found to be suspected of containing elevated levels of lead. The Client required PWL to further investigate and determine whether the building plumbing systems or the water entry points from the municipality was the cause of any elevated levels of lead.

PWL undertook sampling at all the sites, following the methodology outlined in The Public Works and Government Services Canada (PWGSC) document *Drinking Water Sampling Procedures Manual Version 3.0* and compared the analytical results to the recommended *Guidelines for Canadian Drinking Water Quality* (GCDWQ) and *British Columbia Water Quality Guidelines for Drinking Water* (BCDWQ). These guidelines are discussed further in Section 2.0.

Sample locations included of the closest water sources (water fountains, kitchen sinks, or bathroom sinks) to the water entry point and all water sources at the pipe branch run ends.

Analysis results reported lead concentrations below the GCDWQ and BCDWQ guidelines in each of the stagnant and flushed water samples in the following sites (note: CORE & Terry Fox had elevated results for static Water Entry samples, but not flushed) and will be designated as Group A facilities:

- Ross Elementary
- South Poplar
- STaRT
- Facilities Building
- CORE
- Terry Fox

Analysis results for the following facilities had reported lead concentrations below the GCDWQ and BCDWQ guidelines in each of the stagnant and flushed water samples at water entry. However lead concentration above the GCDWQ and BCDWQ guidelines in select water samples at branch run ends were observed and will be designated as Group B facilities:

- Mt. Lehman Elementary

- Aberdeen Elementary
- School Board Office
- Ten-Broeck
- William A. Fraser Middle School

Analysis results reported lead concentrations above the GCDWQ and BCDWQ guidelines at both water entry and branch run ends in the following sites and will be designated as Group C facilities:

- Abbotsford Arts Centre
- Abbotsford Virtual School
- Aboriginal Centre
- Bakerview Centre for Learning
- Centennial Park Elementary
- Chief Dan George Middle
- John Maclure Community School
- North Poplar Campus
- Upper Sumas Elementary
- W.J. Mouat Secondary

The following conclusions and recommendations are provided:

1. Facilities listed within Group A require no additional testing and controls.
2. Facilities listed within Group B should consider the following:
    a. Installing water filtration system at each classroom sink and drinking fountains.
        i. Ensure to develop a filter change-out schedule for all the filtration system installed.
        ii. Further water sampling should be conducted after the new filtration system is utilized, to verify the effectiveness of the implemented control method.
3. Facilities listed within Group C should consider the following:
    a. Conduct an internal investigation of the plumbing systems to identify the source of lead contamination.
    b. Once identified and addressed (e.g. via removal and replacement of select branches), carry out further sampling to verify lead levels within that branch run.

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APPENDICES

1.0 INTRODUCTION

Pinchin West Ltd. (PWL) was retained by Josh Currie of School District #34 (Client) to conduct a diagnostic Drinking Water Quality Investigation (DWQI) of select facilities within the Abbotsford School District #34 all located within Abbotsford, British Columbia.

The DWQI was conducted in response to a request received from the Client to assess the quality of drinking water on 21 sites that had been previously sampled by the Client, and found to be suspected of containing elevated levels of lead. The Client required PWL to further investigate and determine whether the building plumbing systems or the water entry points from the municipality was the cause of any elevated levels of lead.

PWL undertook sampling at all the sites, following the methodology outlined in The Public Works and Government Services Canada (PWGSC) document *Drinking Water Sampling Procedures Manual Version 3.0* and compared the analytical results to the recommended *Guidelines for Canadian Drinking Water Quality* (GCDWQ) and *British Columbia Water Quality Guidelines for Drinking Water* (BCDWQ). These guidelines are discussed further in Section 2.0.

Sample locations included of the closest water sources (water fountains, kitchen sinks, or bathroom sinks) to the water entry point and all water sources at the pipe branch run ends.

2.0 SAMPLE PARAMETERGUIDELINES

The GCDWQ categorizes chemical and physical parameter guidelines as either: health based and listed as MAC, based on aesthetic considerations and listed as aesthetic objectives (AO), or established based on operational considerations and listed as operational guidance values (OG). AO are taken into account in determining whether consumers will consider the water drinkable. OG are taken into account when the presence of a substance may negatively impact treatment processes (e.g., turbidity interfering with chlorination) or negatively impact drinking water infrastructure (e.g., pipe corrosion). The GCDWQ guidelines are listed in the document entitled "*Guidelines for Canadian Drinking Water Quality Summary Table"* dated October 2014.

The BCDWQ identifies recommended criteria based on health concerns. The recommended criteria are listed in the document entitled "*British Columbia Approved Water Quality Guidelines"* dated May 2015, and associated technical appendices.

3.0 METHODOLOGY

The collection of water samples was conducted in accordance with the *PWGSC Drinking Water Sampling Procedures Manual* (Release Version 3.0; August 13, 2004). This includes the collection of two water samples at each sampling location. The first water sample was collected at zero minutes (or "stagnant").

The second sample was collected following five minutes of flushing. Both samples were submitted for analysis of lead. The results of the stagnant water samples were used for informative purposes that may necessitate preventive actions and preventive measures as described by PWGSC. The results of the stagnant and flushed samples were compared to the GCDWQ and/or BCDWQ guidelines.t

PWL sampled one water source per plumbing branch run end and another for water entries for lead in each of the select facilities.

Samples were collected in appropriate, clean, laboratory-provided containers and preservatives (nitric acid) were added right after sample was taken. All water samples were submitted to EXOVA Laboratories (EXOVA), a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory, for analysis.

4.0 RESULTS

The results of the laboratory analysis undertaken by EXOVA for water samples are summarised below in the Summary Table. The Laboratory Certificate of Analysis is located in Appendix I. The floorplans identifying the approximate location of the samples is located in Appendix II. Due to comparable results amongst all the facilities, facilities have been separated into three groups based on the results.

4.1 Results – Group A

Analysis results reported lead concentrations below the GCDWQ and BCDWQ guidelines in each of the stagnant and flushed water samples the following sites (note: CORE & Terry Fox had elevated static Water Entry samples, but not flushed):

- Ross Elementary
- South Poplar
- STaRT
- Facilities Building
- CORE
- Terry Fox

4.2 Results – Group B

Analysis results for the following facilities had reported lead concentrations below the GCDWQ and BCDWQ guidelines in each of the stagnant and flushed water samples at water entry. However lead concentration above the GCDWQ and BCDWQ guidelines in select water samples at Branch Run Ends were observed in the following sites:

- Mt. Lehman Elementary

- Aberdeen Elementary
- School Board Office
- Ten-Broeck
- William A. Fraser Middle School

4.3 Results – Group C

Analysis results reported lead concentrations above the GCDWQ and BCDWQ guidelines at both Water Entry and Branch Run Ends in the following sites:

- Abbotsford Arts Centre
- Abbotsford Virtual School
- Aboriginal Centre
- Bakerview Centre for Learning
- Centennial Park Elementary
- Chief Dan George Middle
- John Maclure Community School
- North Poplar Campus
- Upper Sumas Elementary
- W.J. Mouat Secondary

5.0 QUALITY ASSURANCE/QUALITY CONTROL

Various quality assurance/quality control (QA/QC) protocols were followed during the DWQI to ensure that representative samples were obtained and that representative analytical data were reported by the laboratory.

Field QA/QC protocols that were employed by PWL included the following:

- Dedicated nitrile gloves were used for sample handling;
- The aerator was removed from the faucet prior to sampling;
- Drinking water samples were placed in laboratory-supplied sampling containers; and
- Preservatives were added to drinking water samples immediately after samples were collected.

EXOVA laboratory QA/QC consisted of the analysis of laboratory duplicate, method blank, matrix spike, and spiked blank samples, and an evaluation of relative percent difference calculations for laboratory duplicate samples.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are provided:

1. Facilities listed within Group A require no additional testing and controls.
2. Facilities listed within Group B should consider the following:
    a. Installing water filtration system at each classroom sink and drinking fountains.
        i. Ensure to develop a filter change-out schedule for all the filtration system installed.
        ii. Further water sampling should be conducted after the new filtration system is utilized, to verify the effectiveness of the implemented control method.
3. Facilities listed within Group C should consider the following:
    a. Conduct an internal investigation of the plumbing systems to identify the source of lead contamination.
    c. Once identified and addressed (e.g. via removal and replacement of select branches), carry out further sampling to verify lead levels within that branch run

7.0 LIMITATIONS

This Drinking Water Quality Investigation was performed for SD #34 (Client) in order to investigate potential drinking water quality concerns at 21 facilities. This Drinking Water Quality Investigation was performed in general compliance with currently acceptable practices for drinking water quality investigations, and specific Client requests, as applicable to this Site.

This report was prepared for the exclusive use of the Client, subject to the conditions and limitations contained within the duly authorized proposal. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of the third parties. If additional parties require reliance on this report, written authorization from PWL will be required. PWL disclaims responsibility of consequential financial effects on transactions or property values, or requirements for follow-up actions and costs. No other warranties are implied or expressed. Furthermore, this report should not be construed as legal advice.

PWL will not be responsible for any consequential or indirect damages. PWL will only be liable for damages resulting from the negligence of PWL. PWL will not be liable for any losses or damage if the

Client has failed, within a period of two years following the date upon which the claim is discovered (Claim Period), to commence legal proceedings against PWL to recover such losses or damage unless the laws of the jurisdiction which governs the Claim Period which is applicable to such claim provides that the applicable Claim Period is greater than two years and cannot be abridged by the contract between the Client and PWL, in which case the Claim Period shall be deemed to be extended by the shortest additional period which results in this provision being legally enforceable.

PWL makes no other representations whatsoever, including those concerning the legal significance of its findings, or as to other legal matters touched on in this report, including, but not limited to, ownership of any property, or the application of any law to the facts set forth herein. With respect to regulatory compliance issues, regulatory statutes are subject to interpretation and these interpretations may change over time.

File: 13794Hr01

Template: Master Report for Phase I ESA - Stage 1 PSI, EDR, February 2, 2015

APPENDIX I
LABORATORY CERTIFICATE OF ANALYSIS

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Abbotsford Virtual School
	V6V 2V4	LSD:	33952 Pine Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160088**
Control Number:	C0090981
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131498

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505542	1A / Sink - Staff Room / Static / 21.4 °C	0.0123	0.01	Above MAC
5505543	1B / Sink - Staff Room / Flushed / 21.4 °C	0.0063	0.01	Below MAC
5505544	2A / W/F - Hallway / Static / 21.4 °C	0.0236	0.01	Above MAC
5505545	2B / W/F - Hallway / Flushed / 21.4 °C	0.0109	0.01	Above MAC
5505546	3A / Sink - Kitchen / Static / 21.4 °C	0.339	0.01	Above MAC
5505547	3B / Sink - Kitchen / Flushed / 21.4 °C	0.0074	0.01	Below MAC
5505548	4A / Sink Room 203B / Static / 21.4 °C	0.0177	0.01	Above MAC
5505549	4B / Sink Room 203B / Flushed / 21.4 °C	0.0085	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

Data have been validated by Analytical Quality Control and Exova's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Abbotsford Virtual School
	V6V 2V4	LSD:	33952 Pine Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160088**
Control Number:	C0090981
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131498

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1161173**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 16, 2016
	Richmond, BC, Canada	Location:	Abbotsford Virtual School	Date Reported:	Sep 16, 2016
	V6V 2V4	LSD:	33952 Pine Street	Report Number:	2132865
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Jing Li	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510568	1A / W/F Outside Staff Room 107 / Static / 20.4 °C	0.252	0.01	Above MAC
5510569	1B / W/F Outside Staff Room 107 / Flushed / 20.4 °C	0.00522	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Abbotsford Virtual School
	V6V 2V4	LSD:	33952 Pine Street
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161173**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132865

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160092**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090983
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Aberdeen Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2975 Bradner Road, Abbotsford	Report Number:	2131502
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Kelly Moore	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505565	1A / Sink - Washroom / Static / 21.4 °C	0.0017	0.01	Below MAC
5505566	1B / Sink - Washroom / Flushed / 21.4 °C	0.0009	0.01	Below MAC
5505567	2A / Sink - Multipurpose Room / Static / 21.4 °C	0.0271	0.01	Above MAC
5505568	2B / Sink - Multipurpose Room / Flushed / 21.4 °C	0.0013	0.01	Below MAC
5505569	3A / Sink - Room 113 / Static / 21.4 °C	0.0095	0.01	Below MAC
5505570	3B / Sink - Room 113 / Flushed / 21.4 °C	0.0016	0.01	Below MAC
5505571	4A / Sink - Room 111 / Static / 21.4 °C	0.0069	0.01	Below MAC
5505572	4B / Sink - Room 111 / Flushed / 21.4 °C	0.0012	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Aberdeen Elementary
	V6V 2V4	LSD:	2975 Bradner Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160092**
Control Number:	C0090983
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131502

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

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Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Aboriginal Education Centre
	V6V 2V4	LSD:	3277 Gladwin Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160119**
Control Number:	C0090973
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131534

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505703	1A / Room 103 Sink / Static / 21.4 °C	0.0204	0.01	Above MAC
5505704	1B / Room 103 Sink / Flushed / 21.4 °C	0.0023	0.01	Below MAC
5505705	2A / Room 106 Sink / Static / 21.4 °C	0.0049	0.01	Below MAC
5505706	2B / Room 106 Sink / Flushed / 21.4 °C	0.0025	0.01	Below MAC
5505707	3A / Room 110 Sink / Static / 21.4 °C	0.0148	0.01	Above MAC
5505708	3B / Room 110 Sink / Flushed / 21.4 °C	0.0034	0.01	Below MAC
5505709	4A / Room 111 Sink / Static / 21.4 °C	0.0064	0.01	Below MAC
5505710	4B / Room 111 Sink / Flushed / 21.4 °C	0.0779	0.01	Above MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Aboriginal Education Centre
	V6V 2V4	LSD:	3277 Gladwin Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160119**
Control Number:	C0090973
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131534

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160120**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090991
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Abbotsford Arts Centre	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2329 Crescent Way, Abbotsford	Report Number:	2131535
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505711	1A / Room A100 Sink / Static / 21.4 °C	0.0334	0.01	Above MAC
5505712	1B / Room A100 Sink / Flushed / 21.4 °C	0.0016	0.01	Below MAC
5505713	2A / Room A213 Sink / Static / 21.4 °C	0.0306	0.01	Above MAC
5505714	2B / Room A213 Sink / Flushed / 21.4 °C	0.0019	0.01	Below MAC
5505715	3A / Room A210B Kitchen Sink / Static / 21.4 °C	0.0147	0.01	Above MAC
5505716	3B / Room A210B Kitchen Sink / Flushed / 21.4 °C	0.0019	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Abbotsford Arts Centre
	V6V 2V4	LSD:	2329 Crescent Way, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160120**
Control Number:	C0090991
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131535

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160082**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090990
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Bakerview Centre for Learning	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	32622 Marshall Road, Abbotsford	Report Number:	2131493
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Kelly Moore	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505527	1A / Sink - Washroom / Static / 21.4 °C	0.0028	0.01	Below MAC
5505528	1B / Sink - Washroom / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505529	2A / Sink - Changeroom / Static / 21.4 °C	0.0085	0.01	Below MAC
5505530	2B / Sink - Changeroom / Flushed / 21.4 °C	0.0089	0.01	Below MAC
5505531	3A / Sink - Room S127 / Static / 21.4 °C	0.0428	0.01	Above MAC
5505532	3B / Sink - Room S127 / Flushed / 21.4 °C	0.0008	0.01	Below MAC
5505533	4A / Sink - Room N135 / Static / 21.4 °C	0.0126	0.01	Above MAC
5505534	4B / Sink - Room N135 / Flushed / 21.4 °C	0.0012	0.01	Below MAC
5505535	5A / Sink - Staff Room / Static / 21.4 °C	0.0355	0.01	Above MAC
5505536	5B / Sink - Staff Room / Flushed / 21.4 °C	0.0011	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Bakerview Centre for Learning
	V6V 2V4	LSD:	32622 Marshall Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160082**
Control Number:	C0090990
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131493

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1161171**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 16, 2016
	Richmond, BC, Canada	Location:	Bakerview Centre for Learning	Date Reported:	Sep 16, 2016
	V6V 2V4	LSD:	32622 Marshall Road	Report Number:	2132863
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Jing Li	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510562	1A / W/F Outside Women's Washroom S120 / Static / 20.4 °C	0.0214	0.01	Above MAC
5510563	1B / W/F Outside Women's Washroom S120 / Flushed / 20.4 °C	0.00162	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Bakerview Centre for Learning
	V6V 2V4	LSD:	32622 Marshall Road
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161171**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132863

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Centennial Park Elementary
	V6V 2V4	LSD:	2527 Gladwin Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160078**
Control Number:	C0090990
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131487

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505514	1A / Sink - Washroom / Static / 21.4°C	0.125	0.01	Above MAC
5505515	1B / Sink - Washroom / Flushed / 21.4°C	0.0022	0.01	Below MAC
5505516	2A / Sink - Room 105 / Static / 21.4°C	0.0126	0.01	Above MAC
5505517	2B / Sink - Room 105 / Flushed / 21.4°C	0.0005	0.01	Below MAC
5505518	3A / Sink - Change Room / Static / 21.4°C	0.0067	0.01	Below MAC
5505519	3B / Sink - Change Room / Flushed / 21.4°C	0.0006	0.01	Below MAC
5505520	4A / Sink - Washroom / Static / 21.4°C	0.0020	0.01	Below MAC
5505521	4B / Sink - Washroom / Flushed / 21.4°C	0.0011	0.01	Below MAC
5505522	5A / Sink - Room 203 / Static / 21.4°C	0.0149	0.01	Above MAC
5505523	5B / Sink - Room 203 / Flushed / 21.4°C	0.0004	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Centennial Park Elementary
	V6V 2V4	LSD:	2527 Gladwin Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160078**
Control Number:	C0090990
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131487

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1161168**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 16, 2016
	Richmond, BC, Canada	Location:	Centennial Park Elementary	Date Reported:	Sep 16, 2016
	V6V 2V4	LSD:	2527 Gladwin Road	Report Number:	2132858
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Jing Li	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510548	1A / W/F Outside of Classroom 114 / Static / 20.4 °C	0.185	0.01	Above MAC
5510549	1B / W/F Outside of Classroom 114 / Flushed / 20.4 °C	0.00379	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Centennial Park Elementary
	V6V 2V4	LSD:	2527 Gladwin Road
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161168**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132858

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160106**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090984
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Chief Dan George Middle School	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	32877 Old Riverside Road, Abbotsford	Report Number:	2131520
Attn:	Hans Kriekenbeek				
Sampled By:	Kelly Moore	P.O.:			
Company:	Pinchin West	Acct code:			

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505624	1A / Sink - Mech Room / Static / 21.4 °C	0.0810	0.01	Above MAC
5505625	1B / Sink - Mech Room / Flushed / 21.4 °C	0.0013	0.01	Below MAC
5505626	2A / Sink - Room 160 / Static / 21.4 °C	0.0013	0.01	Below MAC
5505627	2B / Sink - Room 160 / Flushed / 21.4 °C	0.0507	0.01	Above MAC
5505628	3A / Sink - Room 155 / Static / 21.4 °C	0.0217	0.01	Above MAC
5505629	3B / Sink - Room 155 / Flushed / 21.4 °C	0.0072	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Chief Dan George Middle School
	V6V 2V4	LSD:	32877 Old Riverside Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160106**
Control Number:	C0090984
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131520

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160112**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090975
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	C.O.R.E.	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2606 Alliance Street, Abbotsford	Report Number:	2131527
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505652	1A / Lower Floor Hallway Sink / Static / 21.4 °C	0.0109	0.01	Above MAC
5505653	1B / Lower Floor Hallway Sink / Flushed / 21.4 °C	0.0076	0.01	Below MAC
5505654	2A / Kitchen Sink Main Floor / Static / 21.4 °C	0.0028	0.01	Below MAC
5505655	2B / Kitchen Sink Main Floor / Flushed / 21.4 °C	0.0018	0.01	Below MAC
5505656	3A / Upper Floor, Staff Lounge / Static / 21.4 °C	0.0060	0.01	Below MAC
5505657	3B / Upper Floor, Staff Lounge / Flushed / 21.4 °C	0.0051	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	C.O.R.E.
	V6V 2V4	LSD:	2606 Alliance Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160112**
Control Number:	C0090975
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131527

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160123**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090972
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Facilities	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	31759 King Road, Abbotsford	Report Number:	2131538
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505723	1A / Room 103 Sink / Static / 21.4 °C	0.0096	0.01	Below MAC
5505724	1B / Room 103 Sink / Flushed / 21.4 °C	0.0007	0.01	Below MAC
5505725	2A / Room 250 Sink / Static / 21.4 °C	0.0025	0.01	Below MAC
5505726	2B / Room 250 Sink / Flushed / 21.4 °C	0.0004	0.01	Below MAC
5505727	3A / Room 214 Sink / Static / 21.4 °C	0.0069	0.01	Below MAC
5505728	3B / Room 214 Sink / Flushed / 21.4 °C	0.0010	0.01	Below MAC
5505729	4A / Welding Shop Sink / Static / 21.4 °C	0.0081	0.01	Below MAC
5505730	4B / Welding Shop Sink / Flushed / 21.4 °C	0.0014	0.01	Below MAC
5505731	5A / Cabinet Shop Sink / Static / 21.4 °C	0.0028	0.01	Below MAC
5505732	5B / Cabinet Shop Sink / Flushed / 21.4 °C	0.001	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Facilities
	V6V 2V4	LSD:	31759 King Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160123**
Control Number:	C0090972
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131538

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160098**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090988
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	John Maclure Community School	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2990 Oriole Crescent, Abbotsford	Report Number:	2131510
Attn:	Hans Kriekenbeek				
Sampled By:	Kelly Moore	P.O.:			
Company:	Pinchin West	Acct code:			

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505607	1A / Sink - Washroom / Static / 21.4 °C	0.0022	0.01	Below MAC
5505608	1B / Sink - Washroom / Flushed / 21.4 °C	0.0005	0.01	Below MAC
5505609	2A / Sink - Room 134 / Static / 21.4 °C	0.0417	0.01	Above MAC
5505610	2B / Sink - Room 134 / Flushed / 21.4 °C	0.0068	0.01	Below MAC
5505611	3A / Sink - Washroom / Static / 21.4 °C	0.0011	0.01	Below MAC
5505612	3B / Sink - Washroom / Flushed / 21.4 °C	0.0003	0.01	Below MAC
5505613	4A / Sink - Team Centre / Static / 21.4 °C	0.0567	0.01	Above MAC
5505614	4B / Sink - Team Centre / Flushed / 21.4 °C	0.0046	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	John Maclure Community School
	V6V 2V4	LSD:	2990 Oriole Crescent, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160098**
Control Number:	C0090988
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131510

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1161152**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090865
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 16, 2016
	Richmond, BC, Canada	Location:	John Maclure Community School	Date Reported:	Sep 16, 2016
	V6V 2V4	LSD:	2990 Oriole Crescent, Abbotsford	Report Number:	2132842
Attn:	Hans Kriekenbeek				
Sampled By:	Jing Li	P.O.:			
Company:	Pinchin West	Acct code:			

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510471	1A / W/F Across from Room 138 / Static / 20.1 °C	0.0429	0.01	Above MAC
5510472	1B / W/F Across from Room 138 / Flushed / 20.1 °C	0.00361	0.01	Below MAC
5510473	2A / W/F Across from Room 116 / Static / 20.1 °C	0.0123	0.01	Above MAC
5510474	2B / W/F Across from Room 116 / Flushed / 20.1 °C	0.000878	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	John Maclure Community School
	V6V 2V4	LSD:	2990 Oriole Crescent, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161152**
Control Number:	C0090865
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132842

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160093**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090983
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Mt. Lehman Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	6381 Mt. Lehman Road, Abbotsford	Report Number:	2131503
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Kelly Moore	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505573	1A / Sink - Washroom / Static / 21.4 °C	0.0095	0.01	Below MAC
5505574	1B / Sink - Washroom / Flushed / 21.4 °C	0.001	0.01	Below MAC
5505575	2A / Sink - Washroom / Static / 21.4 °C	0.0645	0.01	Above MAC
5505576	2B / Sink - Washroom / Flushed / 21.4 °C	0.0030	0.01	Below MAC
5505577	3A / Sink - Room 201 / Static / 21.4 °C	0.0076	0.01	Below MAC
5505578	3B / Sink - Room 201 / Flushed / 21.4 °C	0.001	0.01	Below MAC
5505579	4A / Sink - Room 104 / Static / 21.4 °C	0.0180	0.01	Above MAC
5505580	4B / Sink - Room 104 / Flushed / 21.4 °C	0.0014	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Mt. Lehman Elementary
	V6V 2V4	LSD:	6381 Mt. Lehman Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160093**
Control Number:	C0090983
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131503

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160113**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090975
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	North Poplar Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	32041 Marshall Road, Abbotsford	Report Number:	2131528
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505658	1A / Room 112 Sink / Static / 21.4 °C	0.0120	0.01	Above MAC
5505659	1B / Room 112 Sink / Flushed / 21.4 °C	0.0013	0.01	Below MAC
5505660	2A / Room E105 Sink / Static / 21.4 °C	0.0045	0.01	Below MAC
5505661	2B / Room E105 Sink / Flushed / 21.4 °C	0.0022	0.01	Below MAC
5505662	3A / Room 127 Sink / Static / 21.4 °C	0.0157	0.01	Above MAC
5505663	3B / Room 127 Sink / Flushed / 21.4 °C	0.0020	0.01	Below MAC
5505664	4A / Room 137 Sink / Static / 21.4 °C	0.0079	0.01	Below MAC
5505665	4B / Room 137 Sink / Flushed / 21.4 °C	0.0011	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	North Poplar Elementary
	V6V 2V4	LSD:	32041 Marshall Road, Abbotsford
Attn:	Hans Kriekenbeek		
Sampled By:	Paul Buckoll	P.O.:	
Company:	Pinchin West	Acct code:	

Lot ID:	**1160113**
Control Number:	C0090975
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131528

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Ross Elementary
	V6V 2V4	LSD:	2451 Ross Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160096**
Control Number:	C0090989
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131507

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505595	1A / Sink - Washroom / Static / 21.4 °C	0.0029	0.01	Below MAC
5505596	1B / Sink - Washroom / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505597	2A / Sink - Kitchen / Static / 21.4 °C	0.0079	0.01	Below MAC
5505598	2B / Sink - Kitchen / Flushed / 21.4 °C	0.0001	0.01	Below MAC
5505599	3A / Sink - Multipurpose Room / Static / 21.4 °C	0.0020	0.01	Below MAC
5505600	3B / Sink - Multipurpose Room / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505601	4A / Sink - Staff Room / Static / 21.4 °C	0.0011	0.01	Below MAC
5505602	4B / Sink - Staff Room / Flushed / 21.4 °C	<0.0001	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Ross Elementary
	V6V 2V4	LSD:	2451 Ross Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160096**
Control Number:	C0090989
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131507

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160118**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090973
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	School Board Office	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2790 Tims Street, Abbotsford	Report Number:	2131533
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505697	1A / Room 220A Sink / Static / 21.4 °C	0.0030	0.01	Below MAC
5505698	1B / Room 220A Sink / Flushed / 21.4 °C	0.0005	0.01	Below MAC
5505699	2A / Kitchen Sink / Static / 21.4 °C	0.0113	0.01	Above MAC
5505700	2B / Kitchen Sink / Flushed / 21.4 °C	0.0027	0.01	Below MAC
5505701	3A / Room 106 Sink / Static / 21.4 °C	0.0783	0.01	Above MAC
5505702	3B / Room 106 Sink / Flushed / 21.4 °C	0.0037	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	School Board Office
	V6V 2V4	LSD:	2790 Tims Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160118**
Control Number:	C0090973
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131533

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160111**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090979
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	South Poplar Traditional Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	32746 Huntingdon Road, Abbotsford	Report Number:	2131526
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505646	1A / North East Hallway Sink / Static / 21.4 °C	0.0038	0.01	Below MAC
5505647	1B / North East Hallway Sink / Flushed / 21.4 °C	0.0011	0.01	Below MAC
5505648	2A / South East Class Sink / Static / 21.4 °C	0.0053	0.01	Below MAC
5505649	2B / South East Class Sink / Flushed / 21.4 °C	0.0015	0.01	Below MAC
5505650	3A / Staff Room Sink / Static / 21.4 °C	0.0062	0.01	Below MAC
5505651	3B / Staff Room Sink / Flushed / 21.4 °C	0.0006	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	South Poplar Traditional Elementary
	V6V 2V4	LSD:	32746 Huntingdon Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160111**
Control Number:	C0090979
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131526

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160122**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090991
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	START Technology	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2343 McCallum Road, Abbotsford	Report Number:	2131537
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Paul Buckoll	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505719	1A / Room B101A Sink / Static / 21.4 °C	0.0068	0.01	Below MAC
5505720	1B / Room B101A Sink / Flushed / 21.4 °C	0.0014	0.01	Below MAC
5505721	2A / Room 110 Kitchen Sink / Static / 21.4 °C	0.0006	0.01	Below MAC
5505722	2B / Room 110 Kitchen Sink / Flushed / 21.4 °C	0.0006	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	START Technology
	V6V 2V4	LSD:	2343 McCallum Road, Abbotsford
Attn:	Hans Kriekenbeek		
Sampled By:	Paul Buckoll	P.O.:	
Company:	Pinchin West	Acct code:	

Lot ID:	**1160122**
Control Number:	C0090991
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131537

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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W: www.exova.com

Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160091**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090982
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Ten-Broeck Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	2580 Stanley Street, Abbotsford	Report Number:	2131501
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Kelly Moore	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505557	1A / Sink - Room C16 / Static / 21.4 °C	0.0045	0.01	Below MAC
5505558	1B / Sink - Room C16 / Flushed / 21.4 °C	0.0005	0.01	Below MAC
5505559	2A / Sink - Room N24 / Static / 21.4 °C	0.0228	0.01	Above MAC
5505560	2B / Sink - Room N24 / Flushed / 21.4 °C	0.0002	0.01	Below MAC
5505561	3A / Sink - Room N32 / Static / 21.4 °C	0.0121	0.01	Above MAC
5505562	3B / Sink - Room N32 / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505563	4A / Sink - Change Room / Static / 21.4 °C	0.0237	0.01	Above MAC
5505564	4B / Sink - Change Room / Flushed / 21.4 °C	0.0013	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Ten-Broeck Elementary
	V6V 2V4	LSD:	2580 Stanley Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160091**
Control Number:	C0090982
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131501

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:		Lot ID:	**1160089**
Report To:	Pinchin West Ltd.	ID:	13794H	Control Number:	C0090981
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling	Date Received:	Sep 12, 2016
	Richmond, BC, Canada	Location:	Terry Fox Elementary	Date Reported:	Sep 13, 2016
	V6V 2V4	LSD:	3071 Babich Street, Abbotsford	Report Number:	2131500
Attn:	Hans Kriekenbeek	P.O.:			
Sampled By:	Kelly Moore	Acct code:			
Company:	Pinchin West				

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505551	1A / Sink - Washroom / Static / 21.4 °C	0.0421	0.01	Above MAC
5505552	1B / Sink - Washroom / Flushed / 21.4 °C	0.0016	0.01	Below MAC
5505553	2A / Sink - Room 134 / Static / 21.4 °C	0.0077	0.01	Below MAC
5505554	2B / Sink - Room 134 / Flushed / 21.4 °C	0.0001	0.01	Below MAC
5505555	3A / Sink - Room 140 / Static / 21.4 °C	0.0017	0.01	Below MAC
5505556	3B / Sink - Room 140 / Flushed / 21.4 °C	0.0002	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Terry Fox Elementary
	V6V 2V4	LSD:	3071 Babich Street, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160089**
Control Number:	C0090981
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131500

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Terry Fox Elementary
	V6V 2V4	LSD:	3071 Babich Street
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161178**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132868

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510574	1A / W/F Adjacent to Main Entrance / Static / 20.4 °C	0.0580	0.01	Above MAC
5510575	1B / W/F Adjacent to Main Entrance / Flushed / 20.4 °C	0.00275	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Terry Fox Elementary
	V6V 2V4	LSD:	3071 Babich Street
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161178**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132868

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Upper Sumas Elementary
	V6V 2V4	LSD:	36321 Vye Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160108**
Control Number:	C0090979
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131523

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505632	1A / North East Library Sink / Static / 21.4 °C	0.169	0.01	Above MAC
5505633	1B / North East Library Sink / Flushed / 21.4 °C	0.0224	0.01	Above MAC
5505634	2A / North West Gym Kitchen Sink / Static / 21.4 °C	0.0020	0.01	Below MAC
5505635	2B / North West Gym Kitchen Sink / Flushed / 21.4 °C	0.0013	0.01	Below MAC
5505636	3A / North East W/F 2nd Floor / Static / 21.4 °C	0.0323	0.01	Above MAC
5505637	3B / North East W/F 2nd Floor / Flushed / 21.4 °C	0.0054	0.01	Below MAC
5505638	4A / South East Sink 2nd Floor / Static / 21.4 °C	0.0149	0.01	Above MAC
5505639	4B / South East Sink 2nd Floor / Flushed / 21.4 °C	0.0040	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	Upper Sumas Elementary
	V6V 2V4	LSD:	36321 Vye Road, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160108**
Control Number:	C0090979
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131523

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	William A. Fraser Middle School
	V6V 2V4	LSD:	34695 Blatchford Way, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160095**
Control Number:	C0090989
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131506

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505583	1A / W/F - Hallway / Static / 21.4 °C	<0.0001	0.01	Below MAC
5505584	1B / W/F - Hallway / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505585	2A / W/F - Hallway / Static / 21.4 °C	<0.0001	0.01	Below MAC
5505586	2B / W/F - Hallway / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505587	3A / Sink - Room N133 / Static / 21.4 °C	0.0063	0.01	Below MAC
5505588	3B / Sink - Room N133 / Flushed / 21.4 °C	0.0005	0.01	Below MAC
5505589	4A / Sink - Room E159 / Static / 21.4 °C	0.0036	0.01	Below MAC
5505590	4B / Sink - Room E159 / Flushed / 21.4 °C	<0.0001	0.01	Below MAC
5505591	5A / Sink - Room C223 / Static / 21.4 °C	0.0090	0.01	Below MAC
5505592	5B / Sink - Room C223 / Flushed / 21.4 °C	0.0007	0.01	Below MAC
5505593	6A / Sink - Room C229 / Static / 21.4 °C	0.0316	0.01	Above MAC
5505594	6B / Sink - Room C229 / Flushed / 21.4 °C	0.0017	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	William A. Fraser Middle School
	V6V 2V4	LSD:	34695 Blatchford Way, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Kelly Moore	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160095**
Control Number:	C0090989
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131506

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	12-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	W.J. Mouat
	V6V 2V4	LSD:	32355 Mouat Drive, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160115**
Control Number:	C0090974
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131530

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.0001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5505667	1A / Room 152 Sink / Static / 21.4 °C	0.0029	0.01	Below MAC
5505668	1B / Room 152 Sink / Flushed / 21.4 °C	0.0009	0.01	Below MAC
5505669	2A / Room 309 Sink / Static / 21.4 °C	0.0100	0.01	Above MAC
5505670	2B / Room 309 Sink / Flushed / 21.4 °C	0.0009	0.01	Below MAC
5505671	3A / Room 316 Sink / Static / 21.4 °C	0.0061	0.01	Below MAC
5505672	3B / Room 316 Sink / Flushed / 21.4 °C	0.0007	0.01	Below MAC
5505673	4A / Room 405 Sink / Static / 21.4 °C	0.0014	0.01	Below MAC
5505674	4B / Room 405 Sink / Flushed / 21.4 °C	0.0004	0.01	Below MAC
5505675	5A / Room 103 Sink / Static / 21.4 °C	0.0046	0.01	Below MAC
5505676	5B / Room 103 Sink / Flushed / 21.4 °C	0.0008	0.01	Below MAC
5505677	6A / Medical Room Sink / Static / 21.4 °C	0.0089	0.01	Below MAC
5505678	6B / Medical Room Sink / Flushed / 21.4 °C	0.0018	0.01	Below MAC
5505679	7A / Room 128 Sink / Static / 21.4 °C	0.0068	0.01	Below MAC
5505680	7B / Room 128 Sink / Flushed / 21.4 °C	0.0011	0.01	Below MAC
5505681	8A / Room 134 Sink / Static / 21.4 °C	0.0376	0.01	Above MAC
5505682	8B / Room 134 Sink / Flushed / 21.4 °C	0.0021	0.01	Below MAC
5505683	9A / Room 217 Sink / Static / 21.4 °C	0.0155	0.01	Above MAC
5505684	9B / Room 217 Sink / Flushed / 21.4 °C	0.0012	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	W.J. Mouat
	V6V 2V4	LSD:	32355 Mouat Drive, Abbotsford
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Paul Buckoll	Acct code:	
Company:	Pinchin West		

Lot ID:	**1160115**
Control Number:	C0090974
Date Received:	Sep 12, 2016
Date Reported:	Sep 13, 2016
Report Number:	2131530

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	13-Sep-16	Exova Surrey

** Reference Method Modified*

References

US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

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Results relate only to samples as submitted.

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Analytical Report

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	W.J. Mouat Secondary
	V6V 2V4	LSD:	32355 Mouat Drive
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161156**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132852

Analyte	Lead
Description	Element
Unit of Measure	mg/L
Nominal Detection Limit	0.00001

Sample Id	Description	Results	Guideline Limit	Guideline Comments
5510518	1A / W/F Between 117c and 116 / Static / 20.4 °C	0.0112	0.01	Above MAC
5510519	1B / W/F Between 117c and 116 / Flushed / 20.4 °C	0.00187	0.01	Below MAC

Approved by:

Mathieu Simoneau
Operations Manager

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Methodology and Notes

Bill To:	Pinchin West Ltd.	Project:	
Report To:	Pinchin West Ltd.	ID:	13794H
	200, 13775 Commerce Parkway	Name:	SD#34 Water Sampling
	Richmond, BC, Canada	Location:	W.J. Mouat Secondary
	V6V 2V4	LSD:	32355 Mouat Drive
Attn:	Hans Kriekenbeek	P.O.:	
Sampled By:	Jing Li	Acct code:	
Company:	Pinchin West		

Lot ID:	**1161156**
Control Number:	
Date Received:	Sep 16, 2016
Date Reported:	Sep 16, 2016
Report Number:	2132852

Method of Analysis

Method Name	Reference		Method	Date Analysis Started	Location
Trace Metals (extractable) in Water (Surrey)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	16-Sep-16	Exova Surrey

** Reference Method Modified*

References

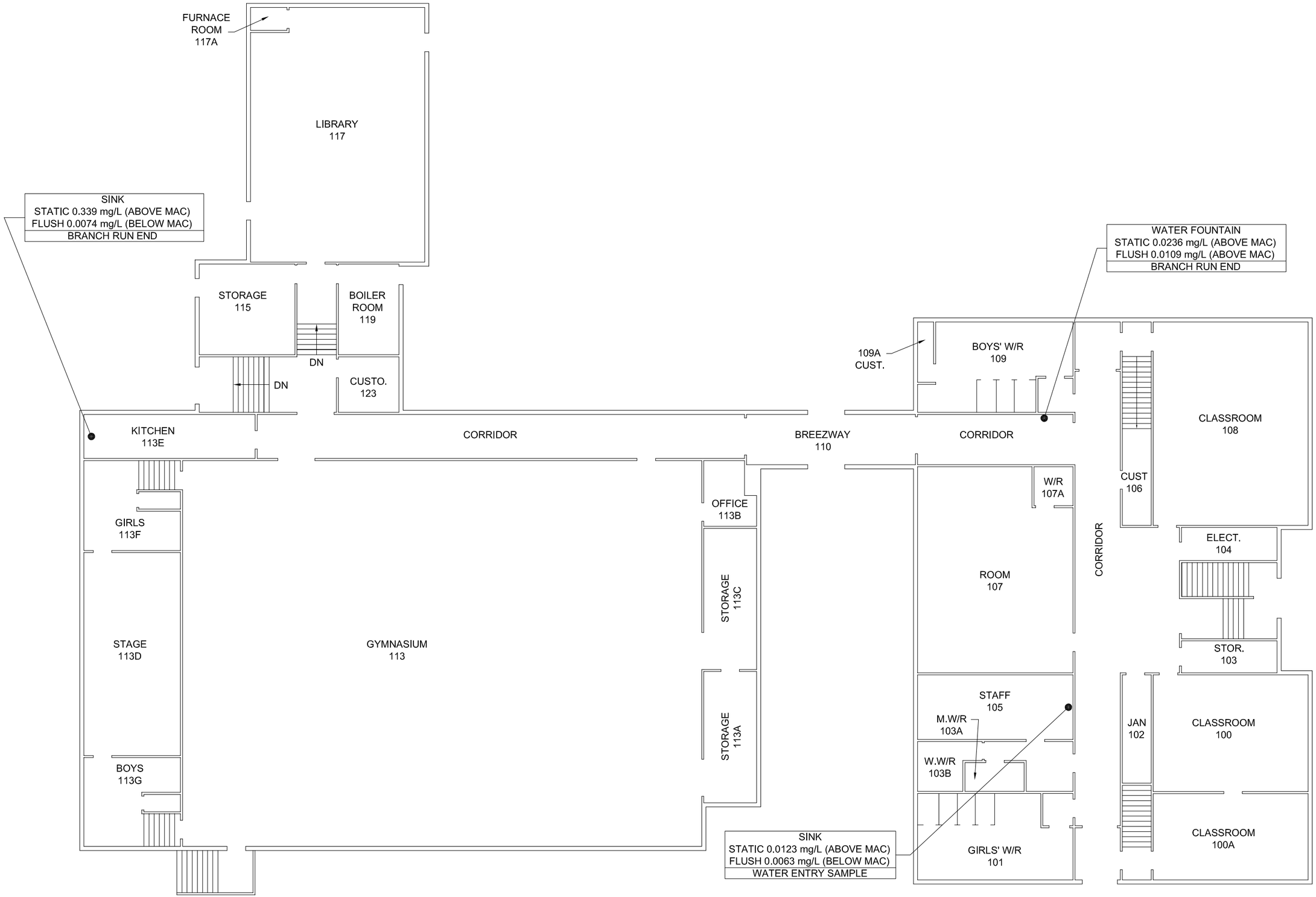
US EPA	US Environmental Protection Agency Test Methods

Guidelines

Guideline Description	Health Canada GCDWQ
Guideline Source	Guidelines for Canadian Drinking Water Quality, Health Canada, October 2014
Guideline Comments	MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants Refer to Health Canada GCDWQ for complete guidelines and additional drinking water information at www.hc-sc.gc.ca

Comments:

APPENDIX II
SAMPLING LOCATION FLOORPLANS



PROJECT TITLE:

33952
PINE STREET
ABBOTSFORD

ABBOTSFORD
VIRTUAL
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

GROUND FLOOR

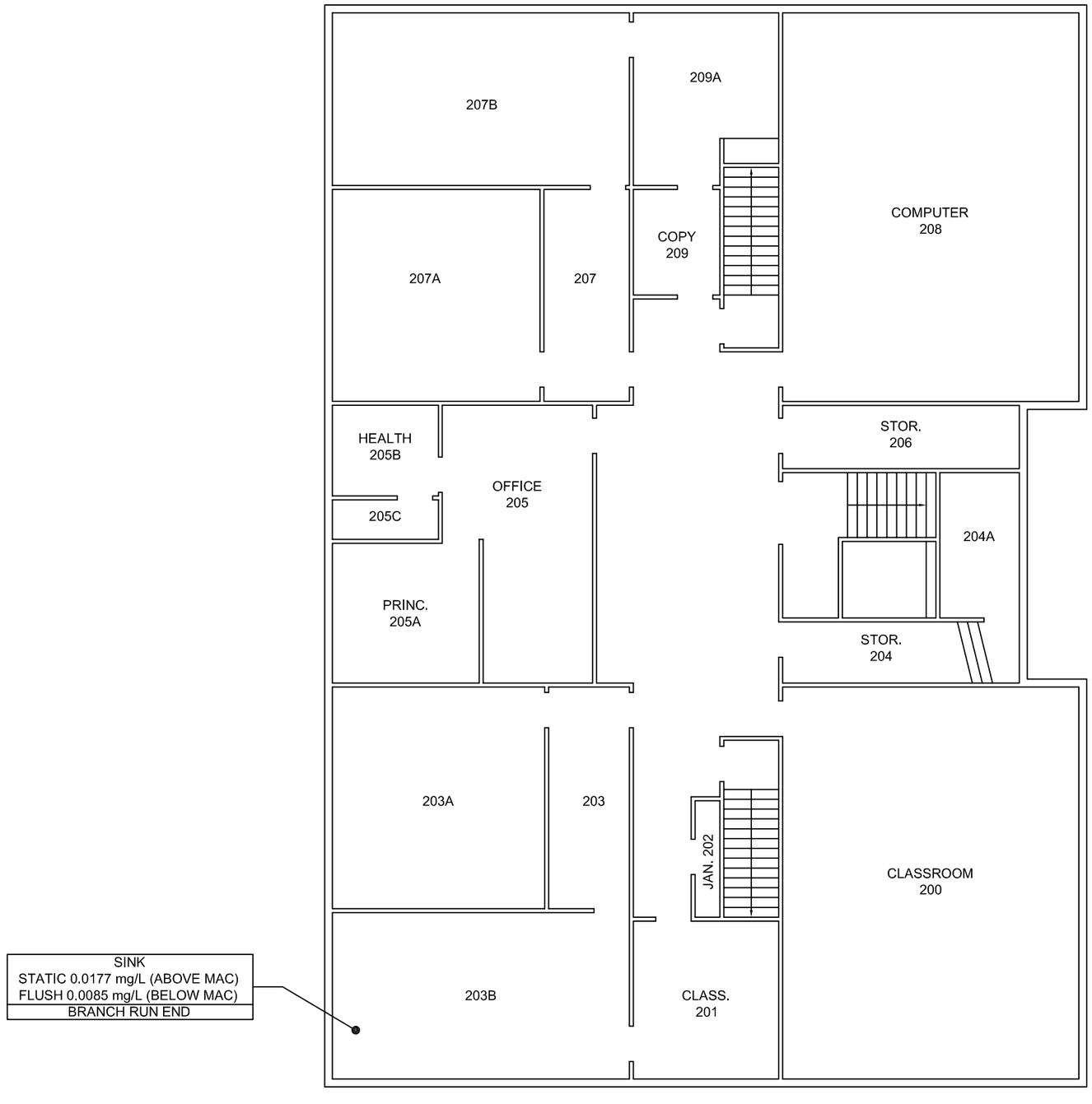
SCALE: NTS

Drawing No.

PSH-FL1

Plotting Scale
SCALE: NTS

PA20160901 15



PROJECT TITLE:

33952
PINE STREET
ABBOTSFORD

ABBOTSFORD
VIRTUAL
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

SECOND FLOOR

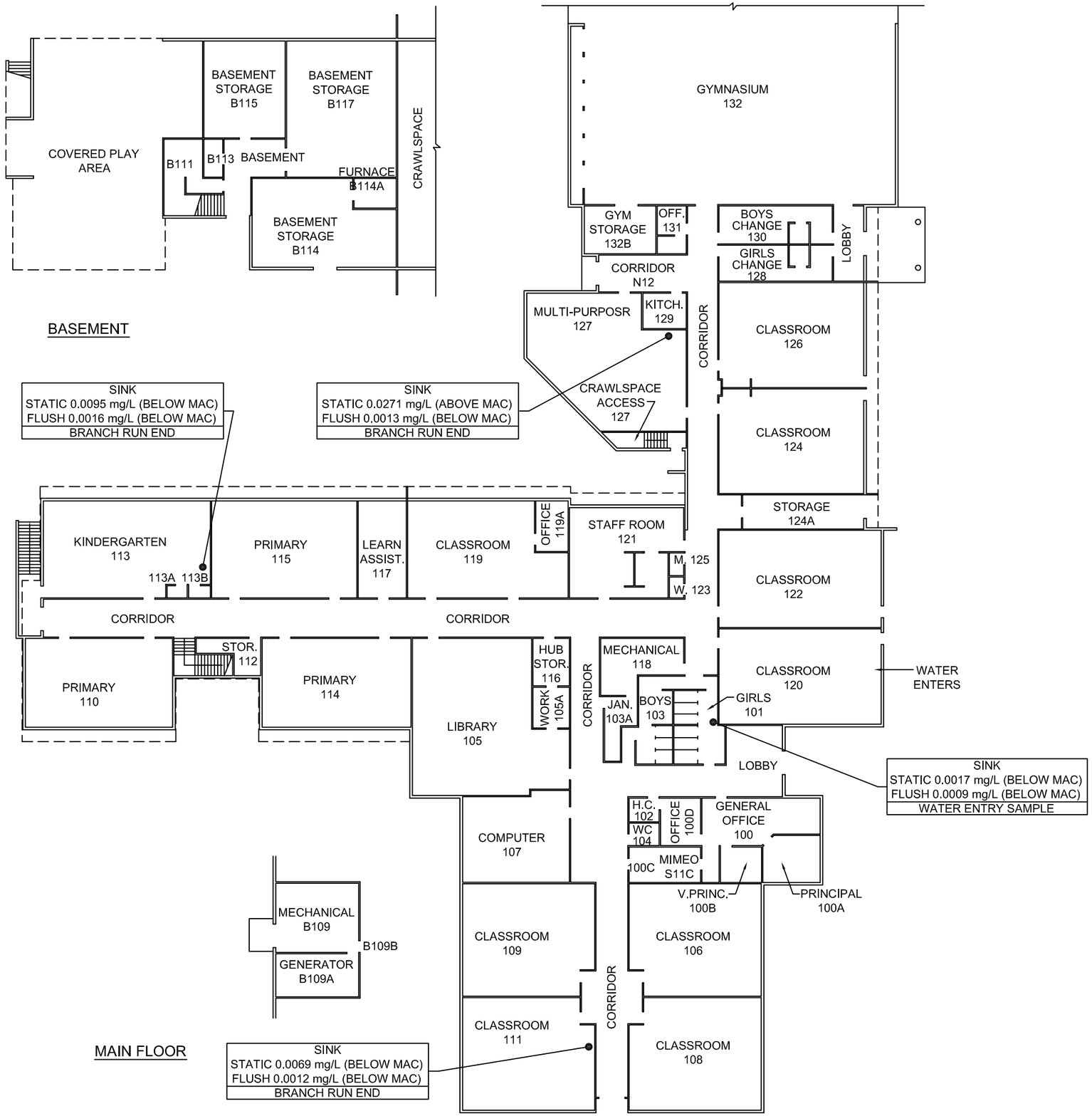
SCALE: NTS

Drawing No.

PSH-FL2

Plotting Scale
SCALE: NTS

PA2016090116



PROJECT TITLE:

2975 BRADNER ROAD
ABBOTSFORD, BC

ABERDEEN ELEMENTARY SCHOOL

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: PK

SHEET TITLE:

BASEMENT & MAIN FLOOR

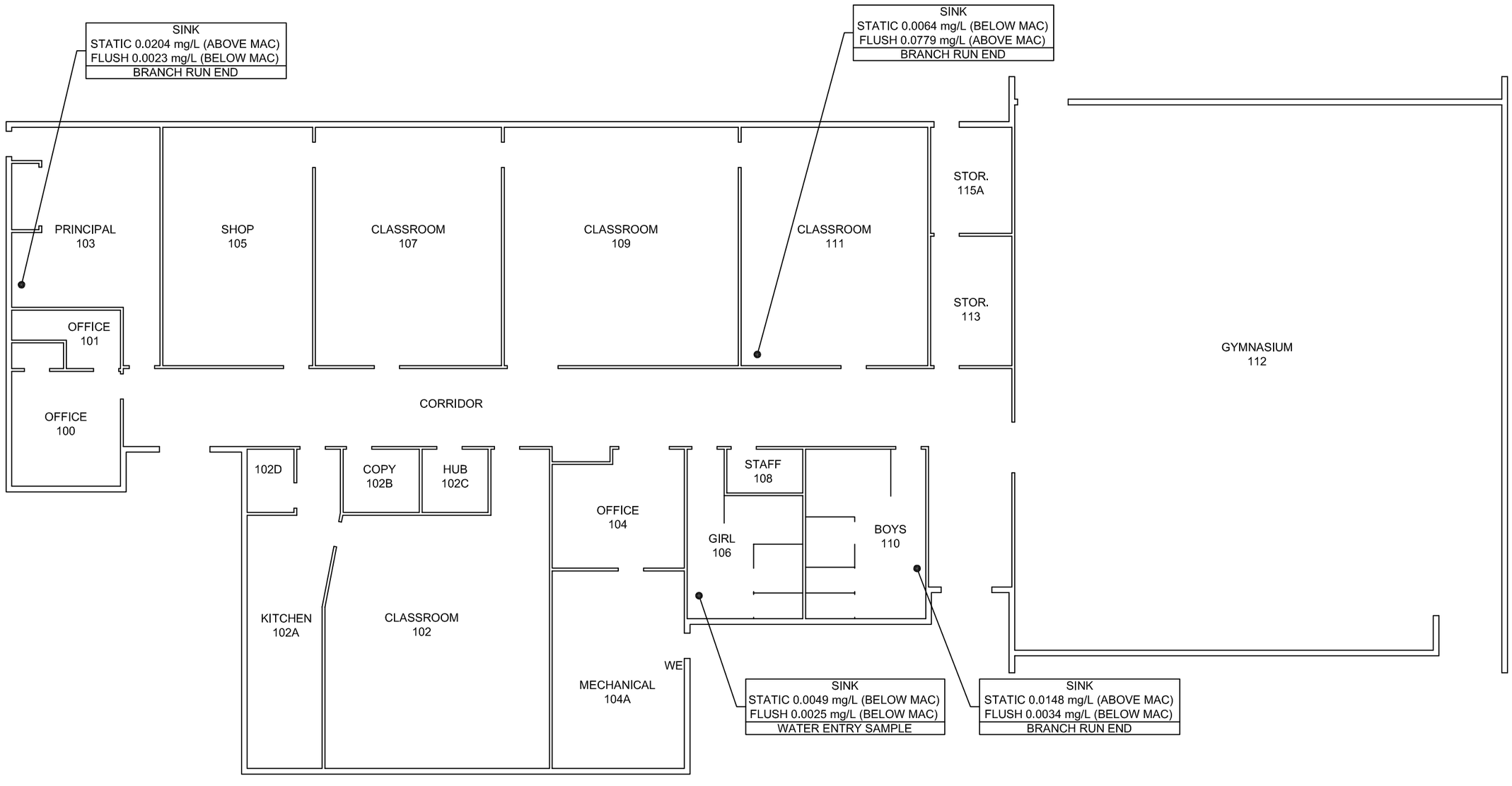
SCALE: NTS

Drawing No.

ABD-FL1

Plotting Scale
SCALE: NTS

PA2016090122



PROJECT TITLE:

3277
GLADWIN ROAD
ABBOTSFORD

MAPLE GROVE
ABORIGINAL
EDUCATION
CENTRE

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

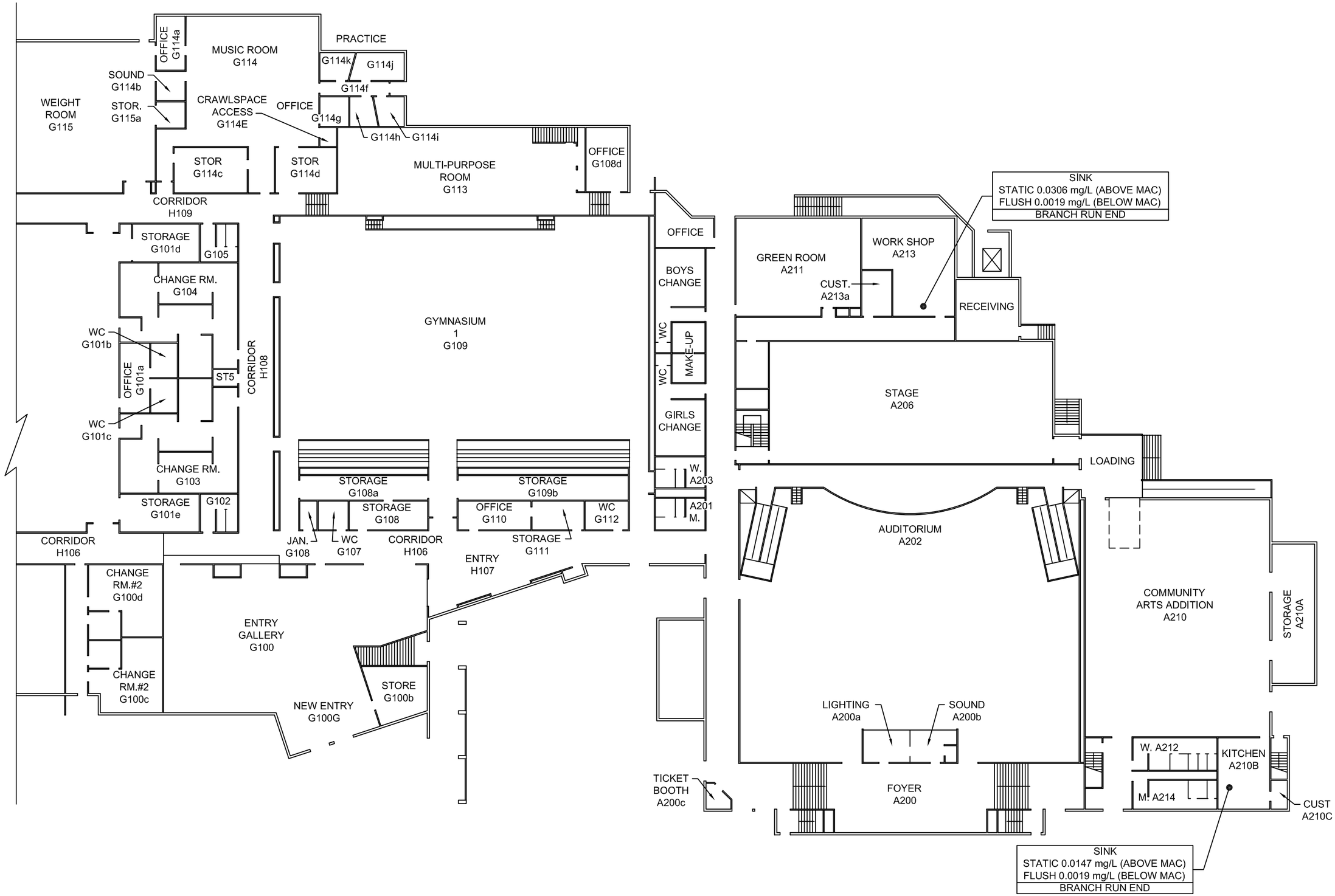
SCALE: NTS

Drawing No.

MAG-FL1

Plotting Scale
SCALE: NTS

PA2016090123



PROJECT TITLE:

2329
CRESCENT WAY
ABBOTSFORD

ABBOTSFORD
ARTS CENTRE

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

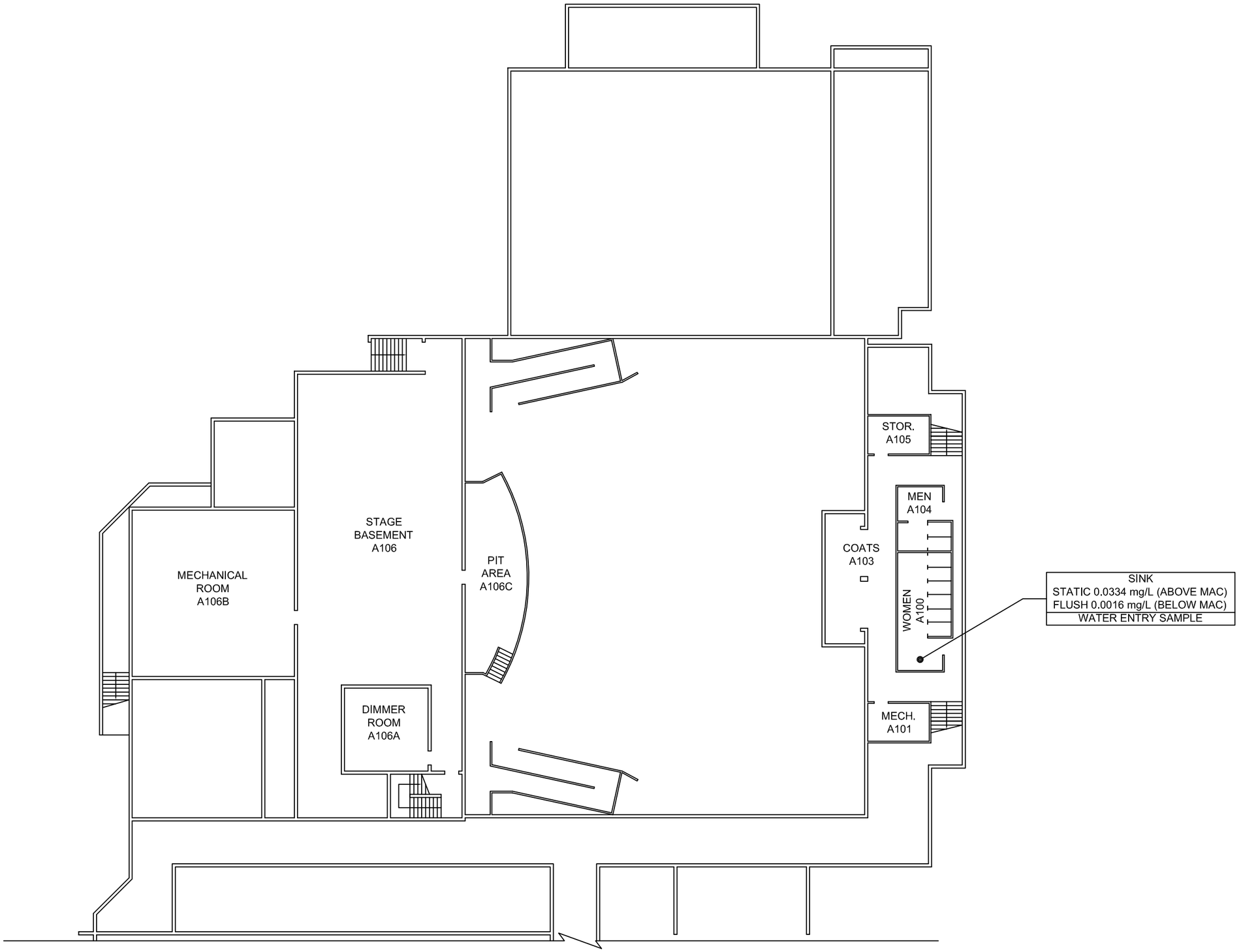
SCALE: NTS

Drawing No.

ART-FL1

Plotting Scale
SCALE: NTS

PA2016096120



PROJECT TITLE:

2329
CRESCENT WAY
ABBOTSFORD

ABBOTSFORD
ARTS CENTRE

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

BASEMENT

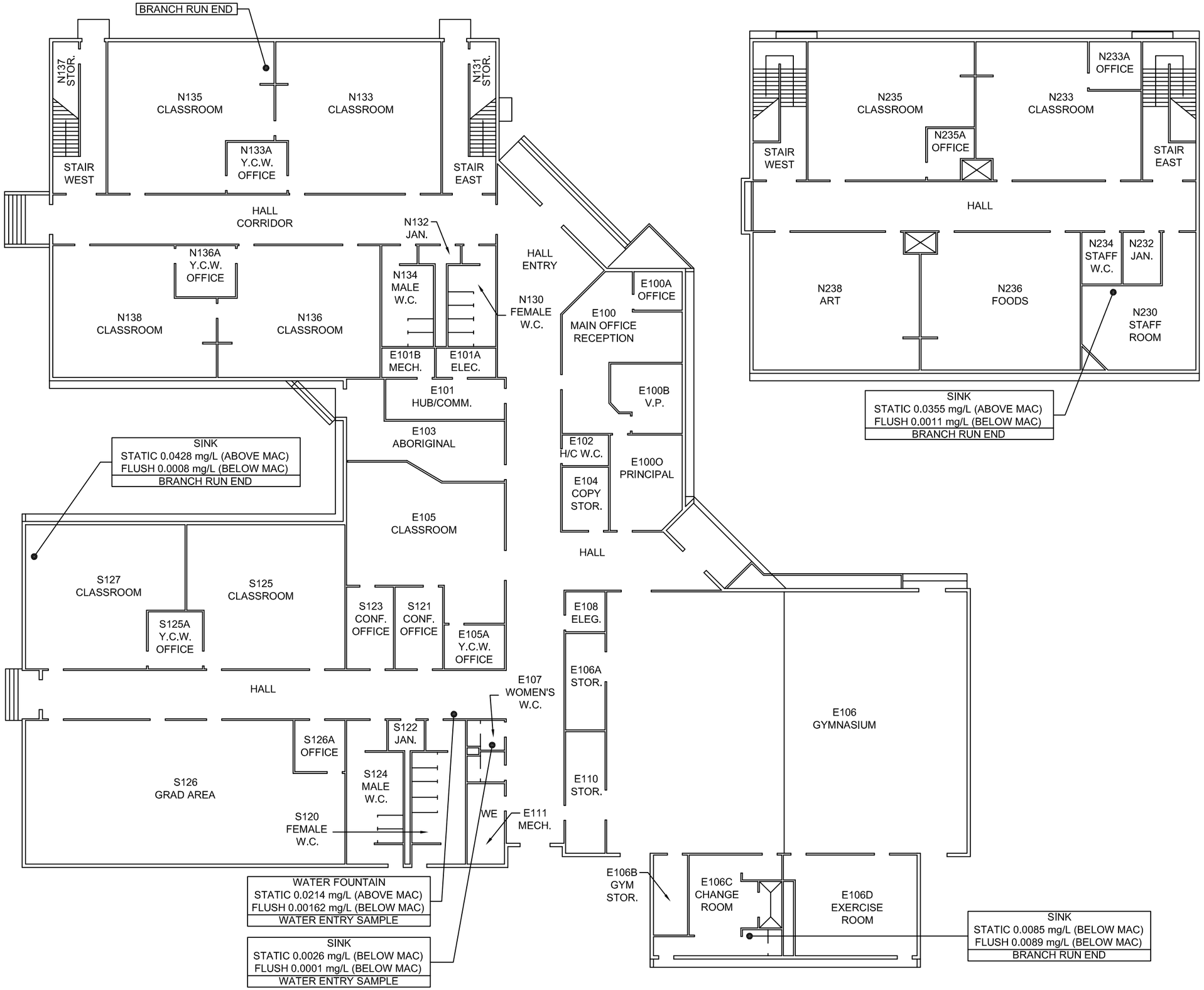
SCALE: NTS

Drawing No.

ART-
BSMT

Plotting Scale
SCALE: NTS

PA0160901121



PROJECT TITLE:

32622
MARSHALL ROAD
ABBOTSFORD
V2T 4A2

BAKERVIEW
CENTRE FOR
LEARNING

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
PK

SHEET TITLE:

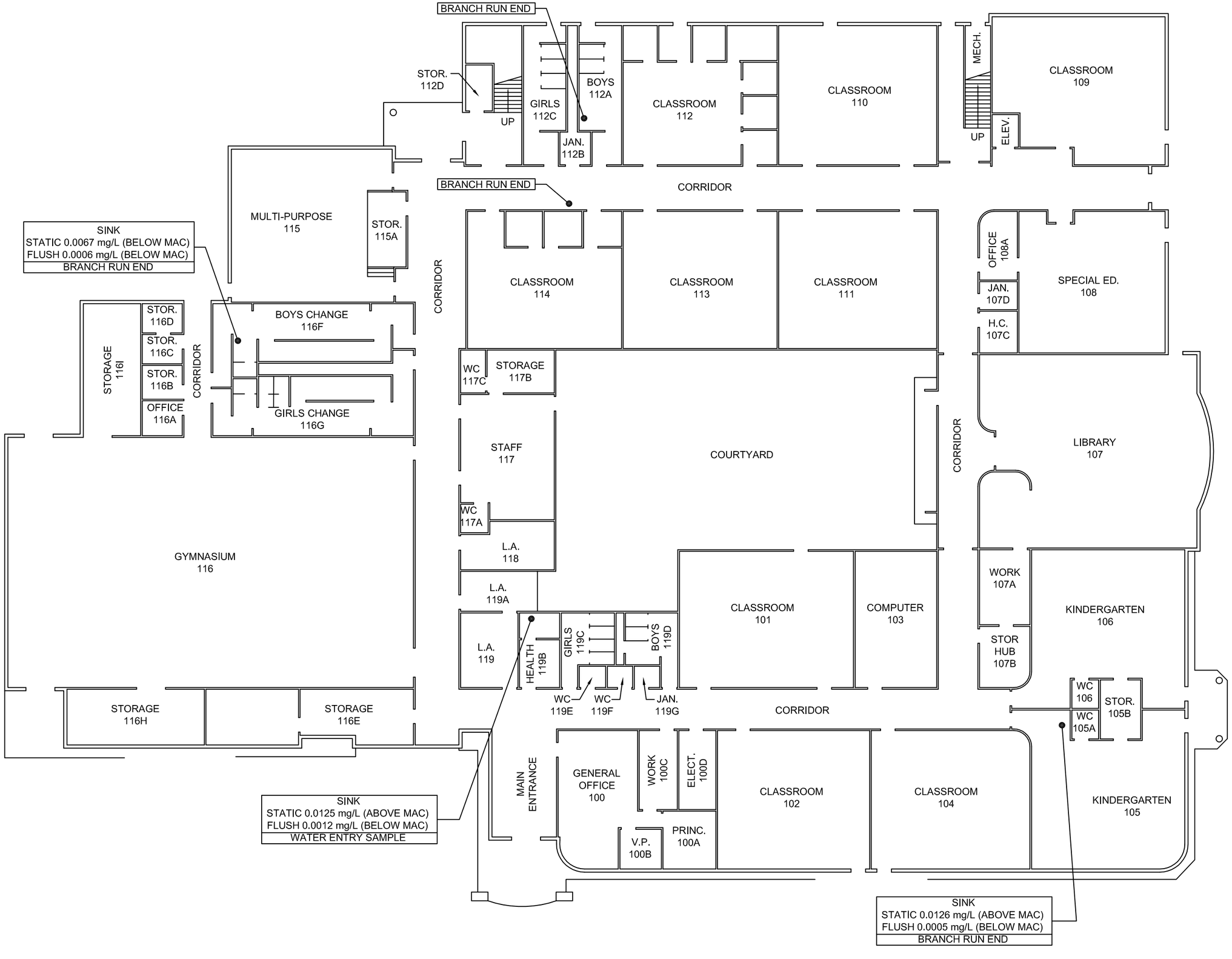
SCALE: NTS

Drawing No.

BAK-FL1

Plotting Scale
SCALE: NTS

PA20160901 19



PROJECT TITLE:
2527 GLADWIN ROAD

CENTENNIAL PARK ELEMENTARY

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: PK

SHEET TITLE:

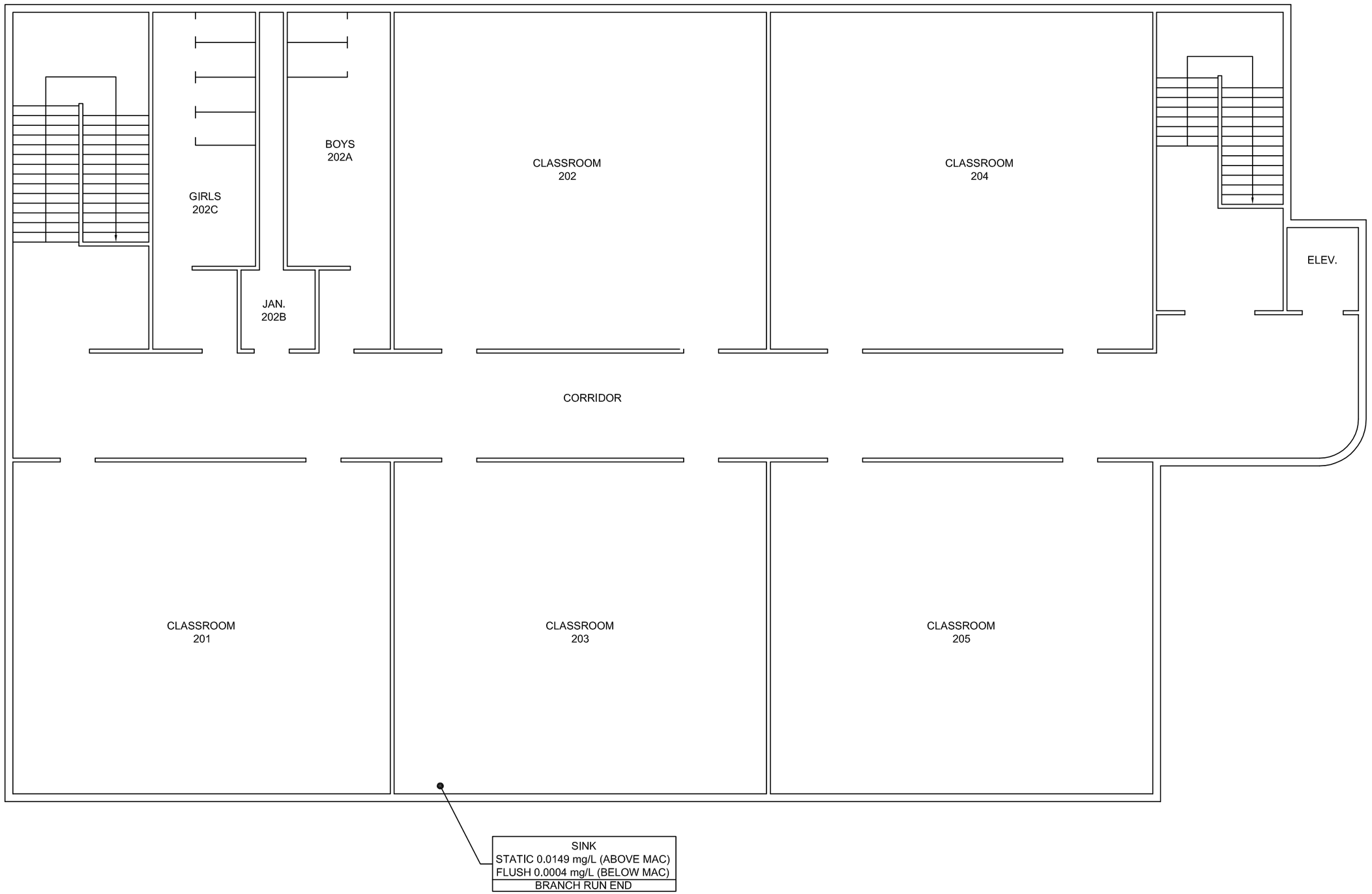
SCALE: NTS

Drawing No.

CEN-FL1

Plotting Scale
SCALE: NTS

FA2016090117



PROJECT TITLE:

2527 GLADWIN ROAD

CENTENNIAL PARK ELEMENTARY

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: PK

SHEET TITLE:

SECOND FLOOR

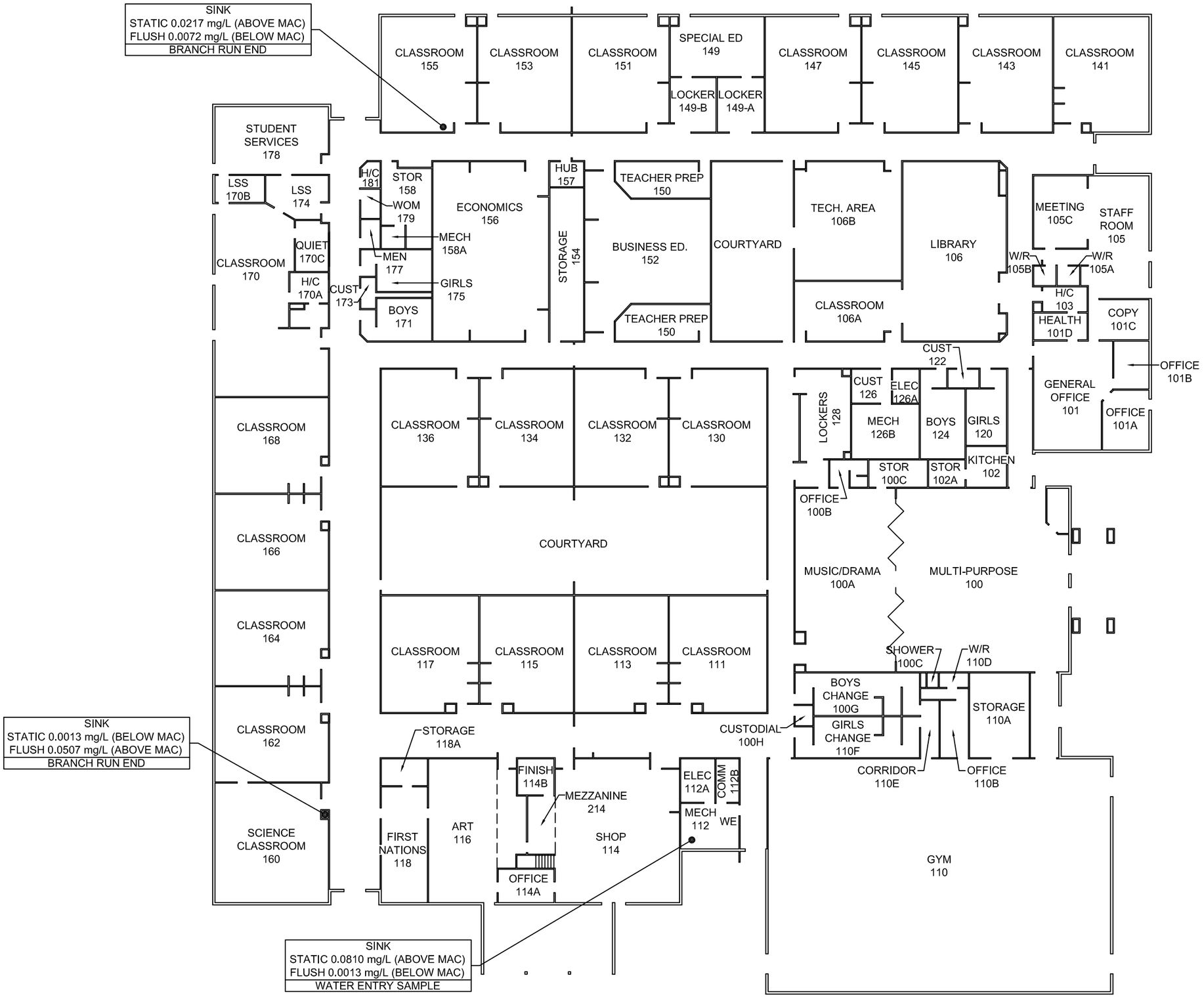
SCALE: NTS

Drawing No.

CEN-FL2

Plotting Scale
SCALE: NTS

PA20160901118



PROJECT TITLE:

32877 OLD RIVERSIDE ABBOTSFORD

CHIEF DAN GEORGE MIDDLE SCHOOL

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: PK

SHEET TITLE:

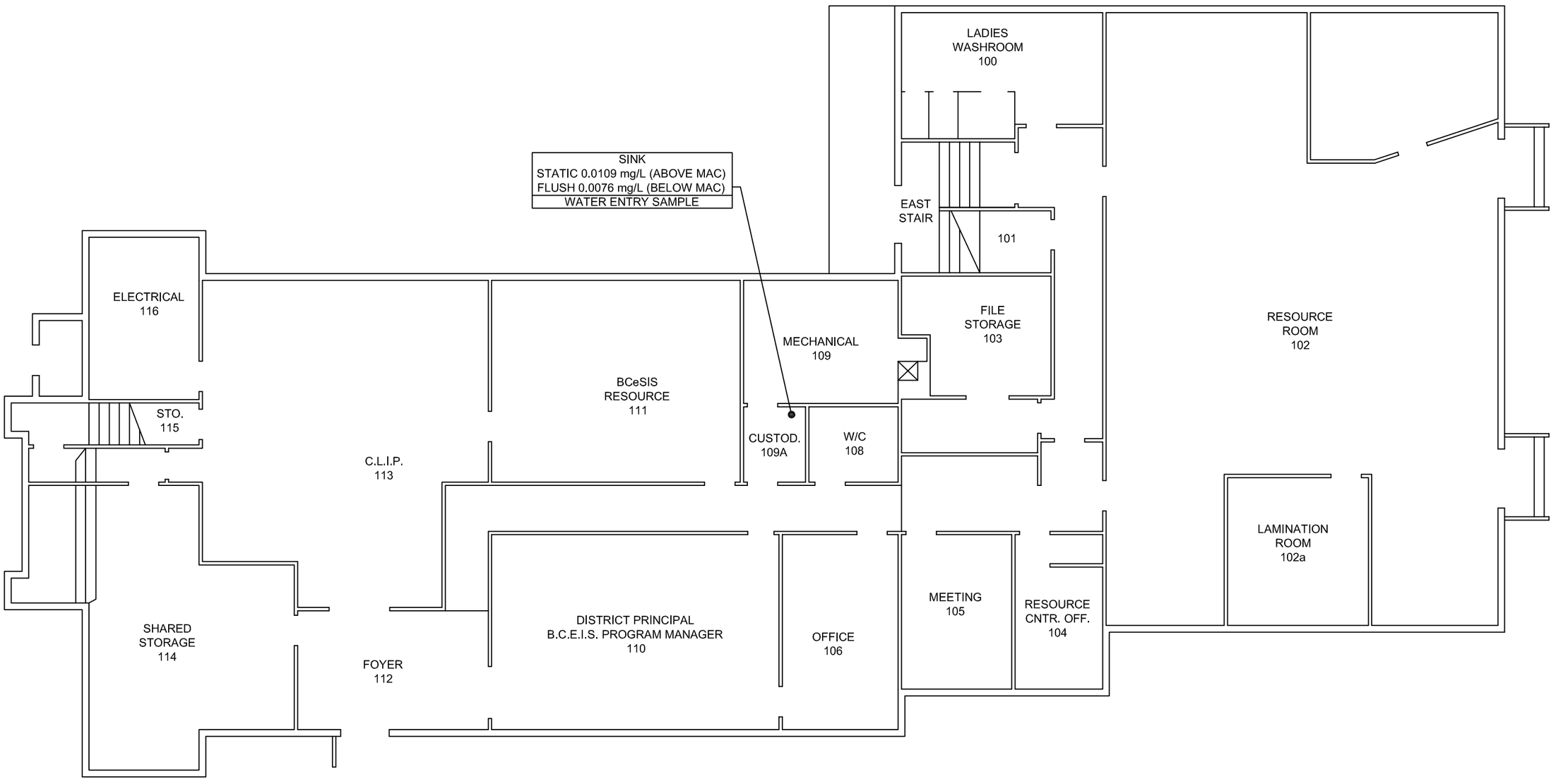
SCALE: NTS

Drawing No.

CDG-FL1

Plotting Scale
SCALE: NTS

PA0216090124



PROJECT TITLE:

2606
ALLIANCE ST.
ABBOTSFORD

CENTRE FOR
RESOURCES
FOR EDUCATION

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
VM

SHEET TITLE:

LOWER FLOOR

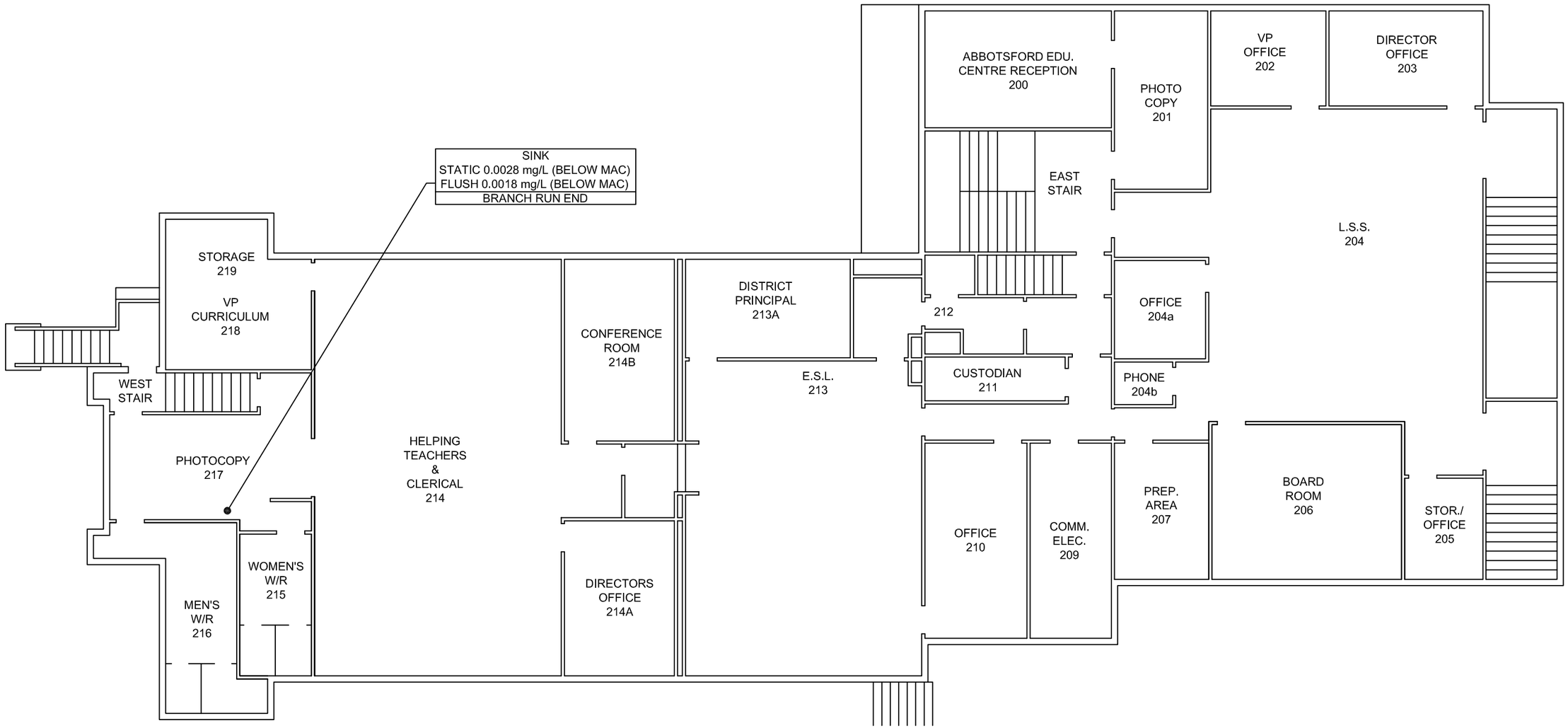
SCALE: NTS

Drawing No.

ACE-FL1

Plotting Scale
SCALE: NTS

PA0160901441



PROJECT TITLE:

2606
ALLIANCE ST.
ABBOTSFORD

CENTRE FOR
RESOURCES
FOR EDUCATION

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
VM

SHEET TITLE:

MAIN FLOOR

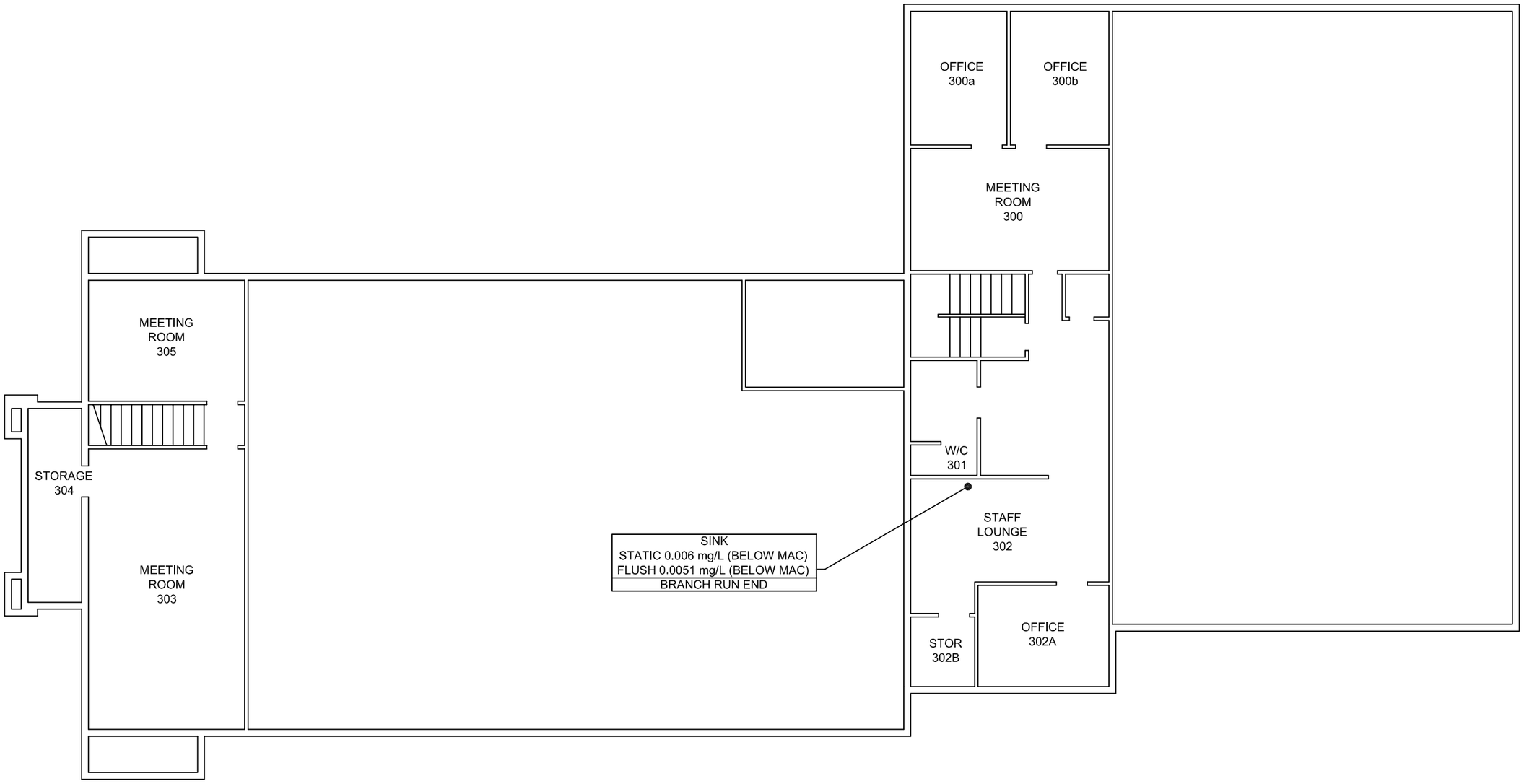
SCALE: NTS

Drawing No.

ACE-FL2

Plotting Scale
SCALE: NTS

PA2016090142



PROJECT TITLE:

2606
ALLIANCE ST.
ABBOTSFORD

CENTRE FOR
RESOURCES
FOR EDUCATION

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
VM

SHEET TITLE:

UPPER FLOOR

SCALE: NTS

Drawing No.

ACE-FL3

Plotting Scale
SCALE: NTS

PA20160909143

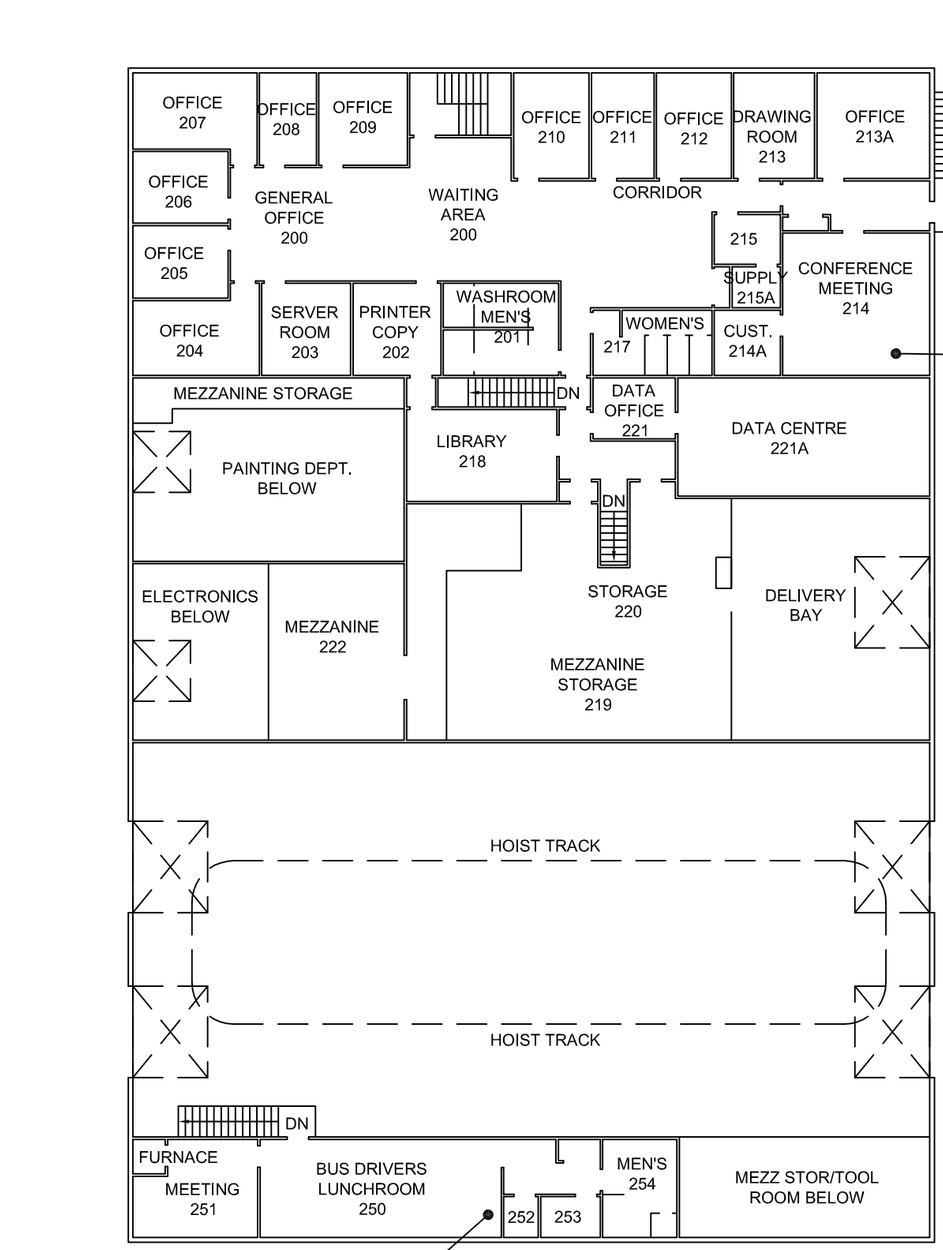
WELDING SHOP SINK
STATIC 0.0081 mg/L (BELOW MAC)
FLUSH 0.0014 mg/L (BELOW MAC)
BRANCH RUN END

CABINET SHOP SINK
STATIC 0.0028 mg/L (BELOW MAC)
FLUSH 0.001 mg/L (BELOW MAC)
BRANCH RUN END

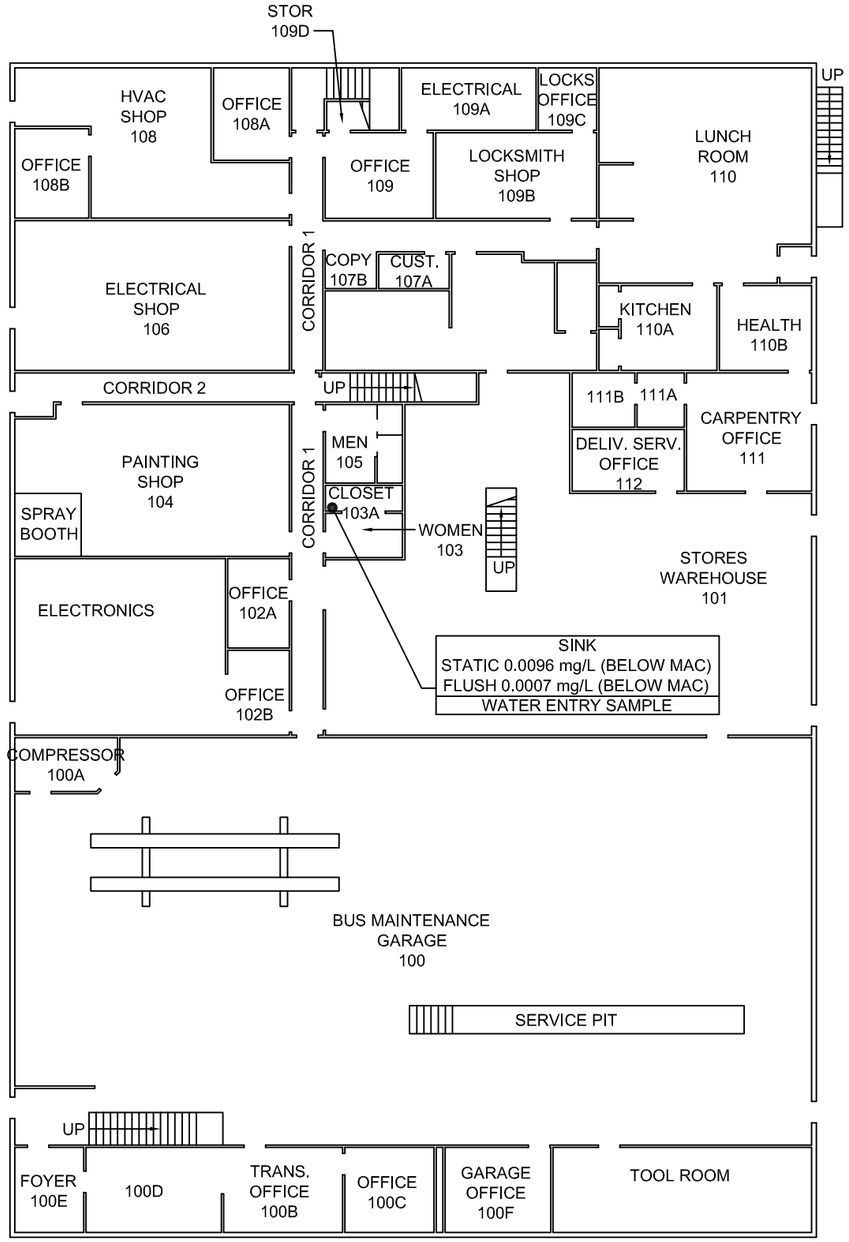
SINK
STATIC 0.0069 mg/L (BELOW MAC)
FLUSH 0.001 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0096 mg/L (BELOW MAC)
FLUSH 0.0007 mg/L (BELOW MAC)
WATER ENTRY SAMPLE

SINK
STATIC 0.0025 mg/L (BELOW MAC)
FLUSH 0.0004 mg/L (BELOW MAC)
BRANCH RUN END



SECOND FLOOR



MAIN FLOOR

PROJECT TITLE:
31759 KING ROAD
ABBOTSFORD

MAINTENANCE AND TRANSPORTATION FACILITY

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: VM

SHEET TITLE:

MAIN FLOOR & SECOND FLOOR

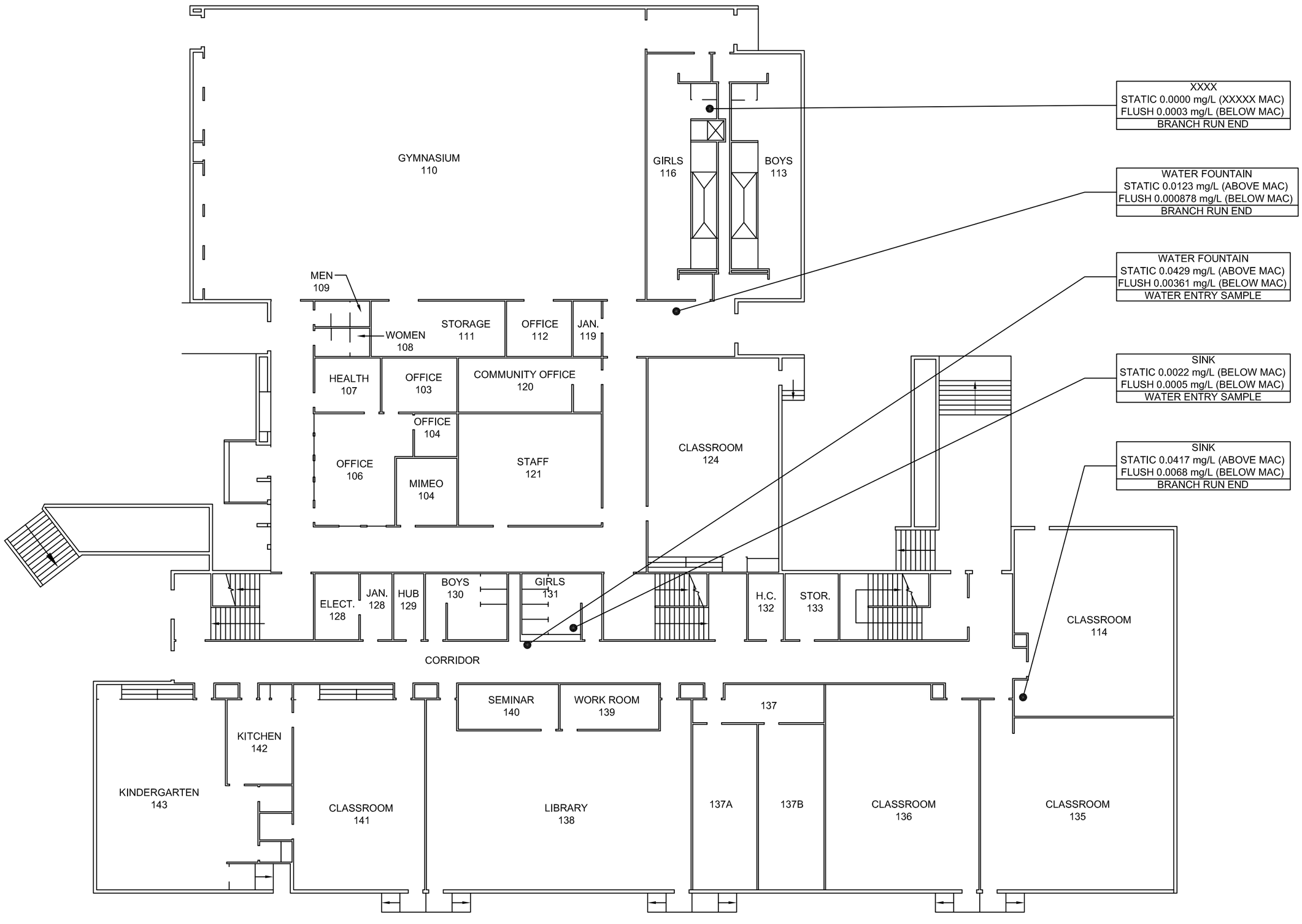
SCALE: NTS

Drawing No.

ROS-FL1

Plotting Scale
SCALE: NTS

PA20160080140



PROJECT TITLE:

2990
ORIOLE CR
ABBOTSFORD

JOHN MACLURE
COMMUNITY
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

FIRST FLOOR

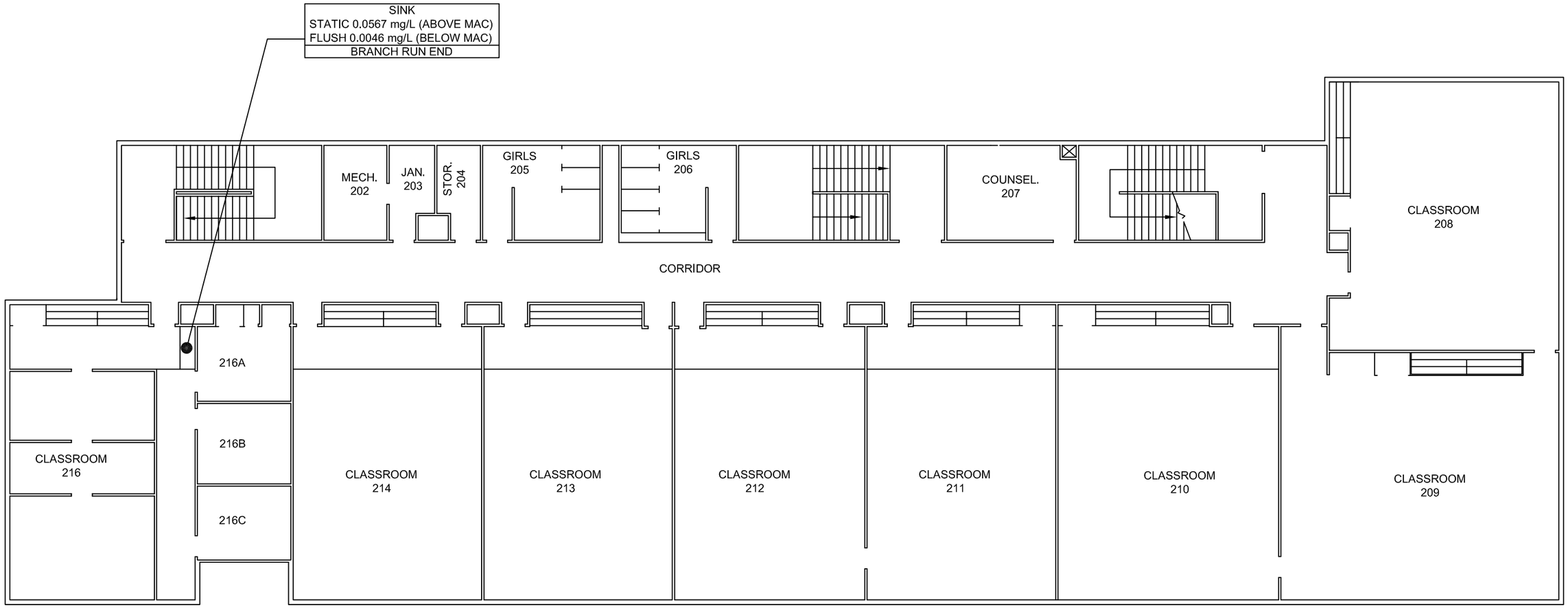
SCALE: NTS

Drawing No.

JMA-FL1

Plotting Scale
SCALE: NTS

FA20160901125



PROJECT TITLE:

2990
ORIOLE CR
ABBOTSFORD

JOHN MACLURE
COMMUNITY
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

SECOND FLOOR

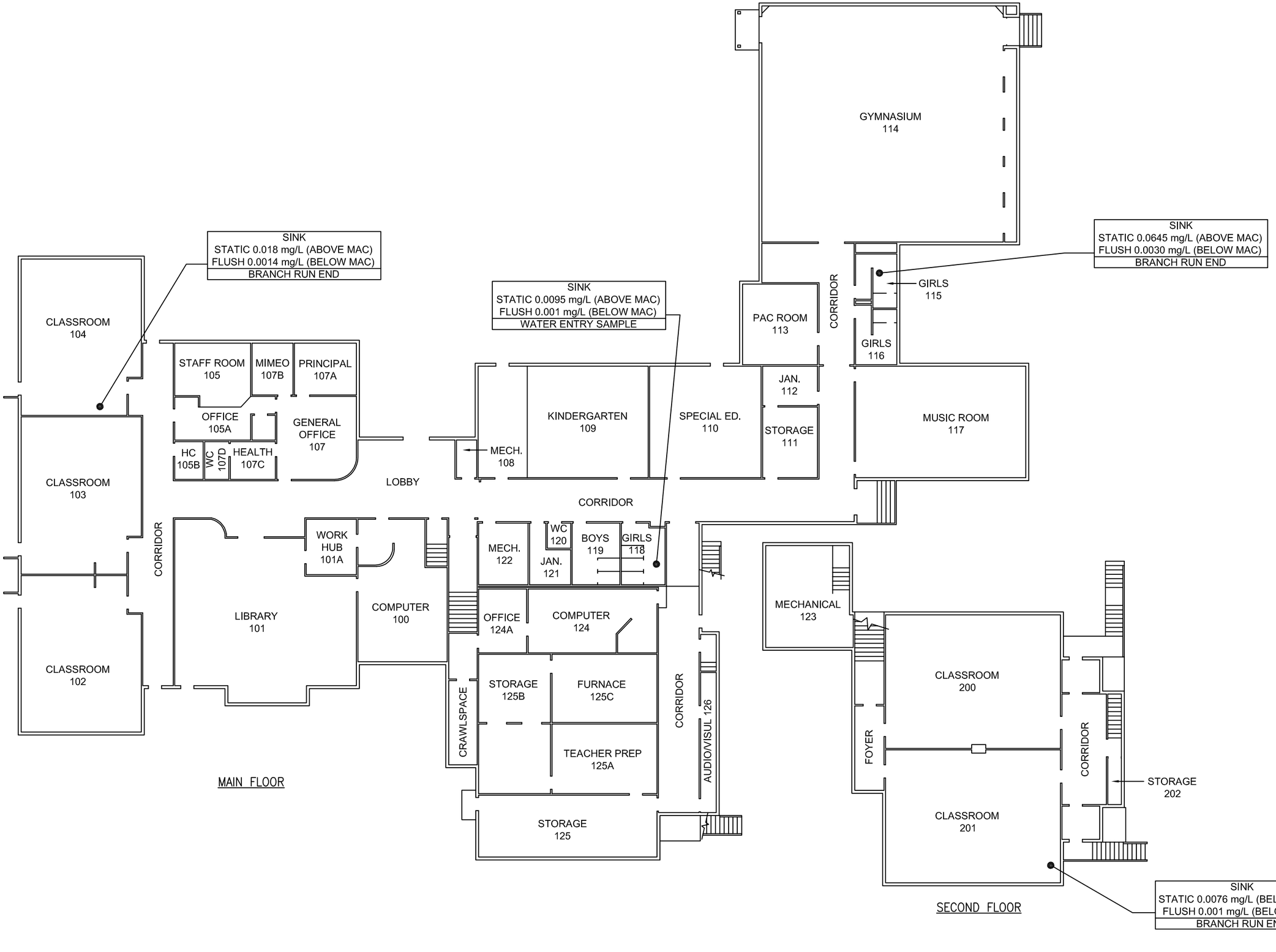
SCALE: NTS

Drawing No.

JMA-FL2

Plotting Scale
SCALE: NTS

PA20160901126



PROJECT TITLE:

6381
MT. LEHMAN RD
ABBOTSFORD

MT. LEHMAN
ELEMENTARY

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

MAIN FLOOR &
SECOND FLOOR

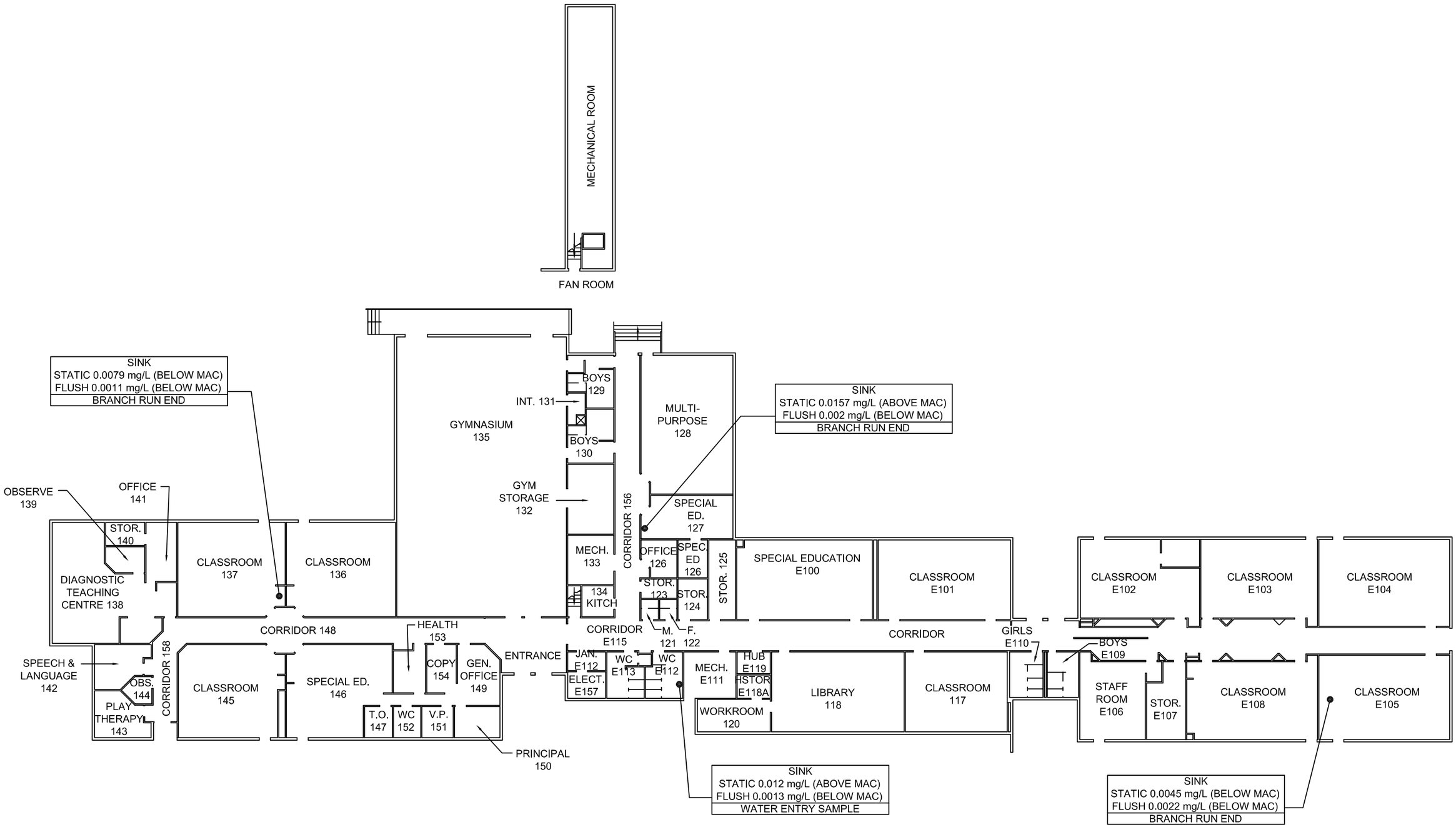
SCALE: NTS

Drawing No.

LEH-FL1

Plotting Scale
SCALE: NTS

PA2016090127



PROJECT TITLE:

32041
MARSHALL ROAD
ABBOTSFORD

NORTH POPULAR ELEMENTARY

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: CS

SHEET TITLE:

MAIN FLOOR

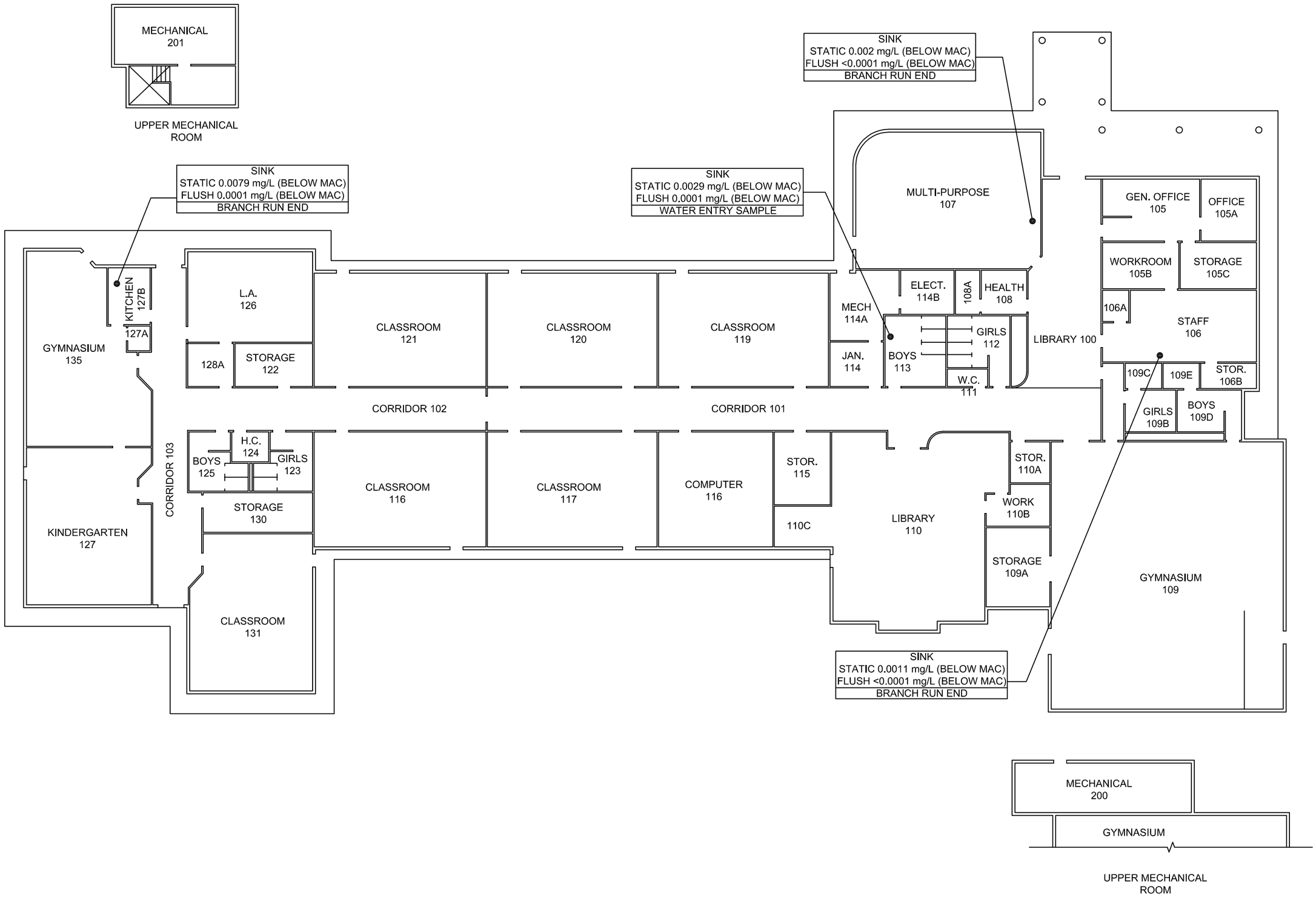
SCALE: NTS

Drawing No.

NPO-AP1

Plotting Scale
SCALE: NTS

PA20160901128



PROJECT TITLE:

2451
ROSS ROAD
ABBOTSFORD

ROSS ROAD
ELEMENTARY

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

MAIN FLOOR

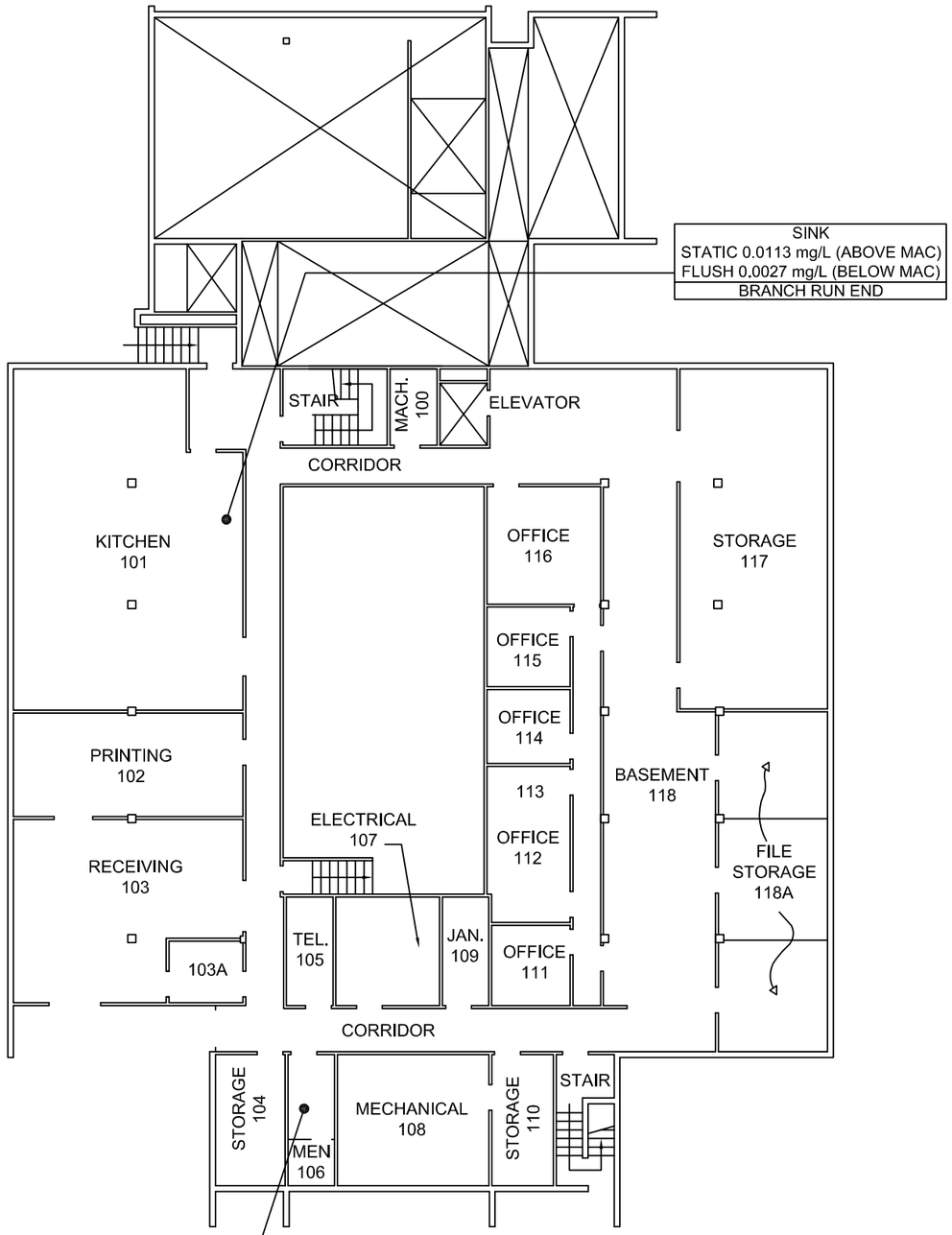
SCALE: NTS

Drawing No.

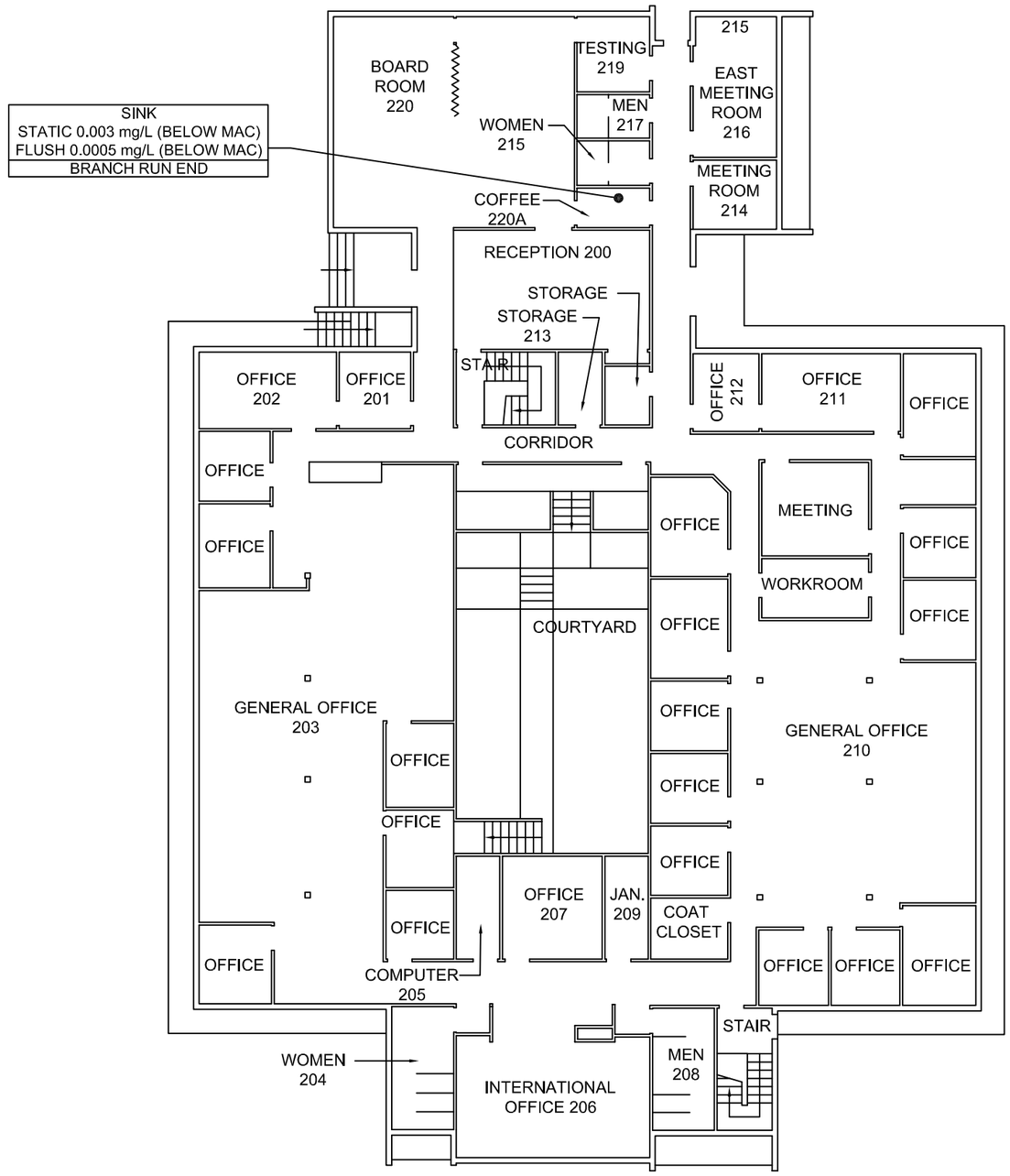
ROS-FL1

Plotting Scale
SCALE: NTS

PA2016090129



BASEMENT



MAIN FLOOR

PROJECT TITLE:
2790
TIMS STREET
ABBOTSFORD

SD#34
BOARD OFFICE
ABBOTSFORD

SCHOOL DISTRICT No. 34 ABBOTSFORD
31759 KING ROAD
CLEARBROOK, BC
852 - 9494

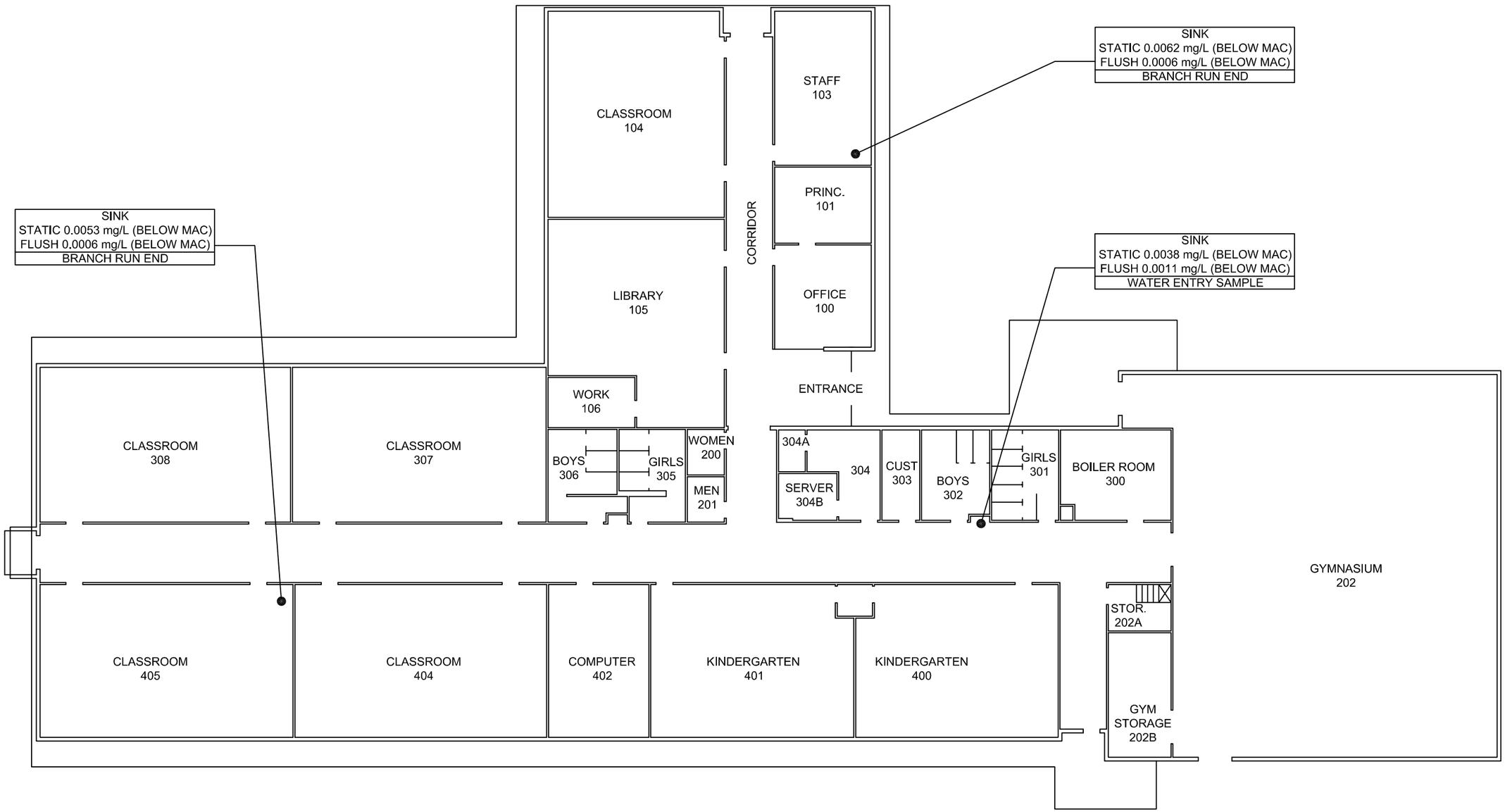
REVISIONS
ISSUED
DATE: SEP. 22, 2016
CHECKED: HK
DRAWN: CS
SHEET TITLE:
BASEMENT & MAIN FLOOR

SCALE: NTS

Drawing No.
SBO-FL1, 2

Plotting Scale
SCALE: NTS

PA2016090131



PROJECT TITLE:

32746 HUNTINGDON RD ABBOTSFORD

SOUTH POPLAR TRADITIONAL SCHOOL

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE: SEP. 22, 2016

CHECKED: HK

DRAWN: CS

SHEET TITLE:

MAIN FLOOR

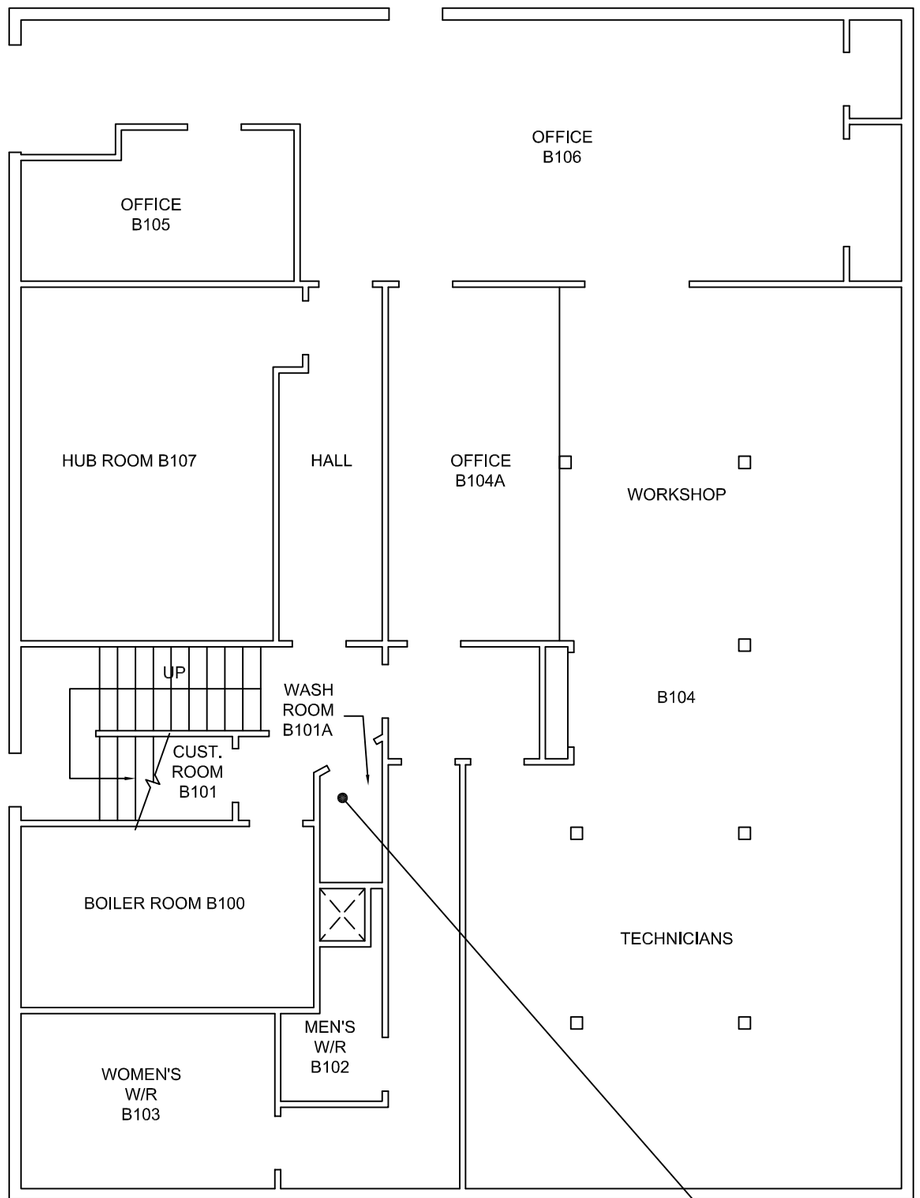
SCALE: NTS

Drawing No.

SPO-FL1

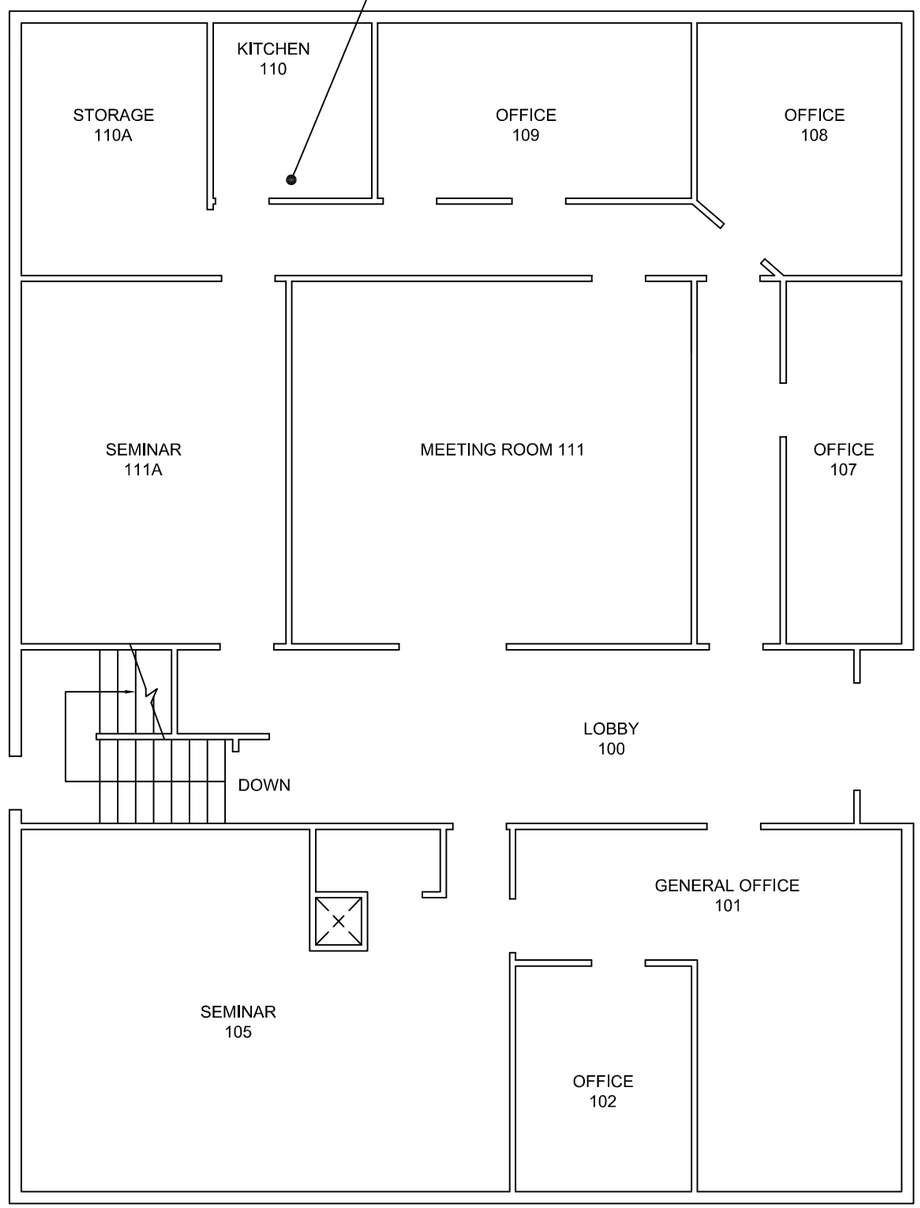
Plotting Scale
SCALE: NTS

PA20160901 30



BASEMENT

SINK
STATIC 0.0068 mg/L (BELOW MAC)
FLUSH 0.0014 mg/L (BELOW MAC)
WATER ENTRY SAMPLE



MAIN FLOOR

SINK
STATIC 0.0006 mg/L (BELOW MAC)
FLUSH 0.0006 mg/L (BELOW MAC)
BRANCH RUN END

PROJECT TITLE:
2343
McCALLUM ROAD
ABBOTSFORD

INFORMATION
TECHNOLOGY
CENTRE

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

BASEMENT &
MAIN FLOOR

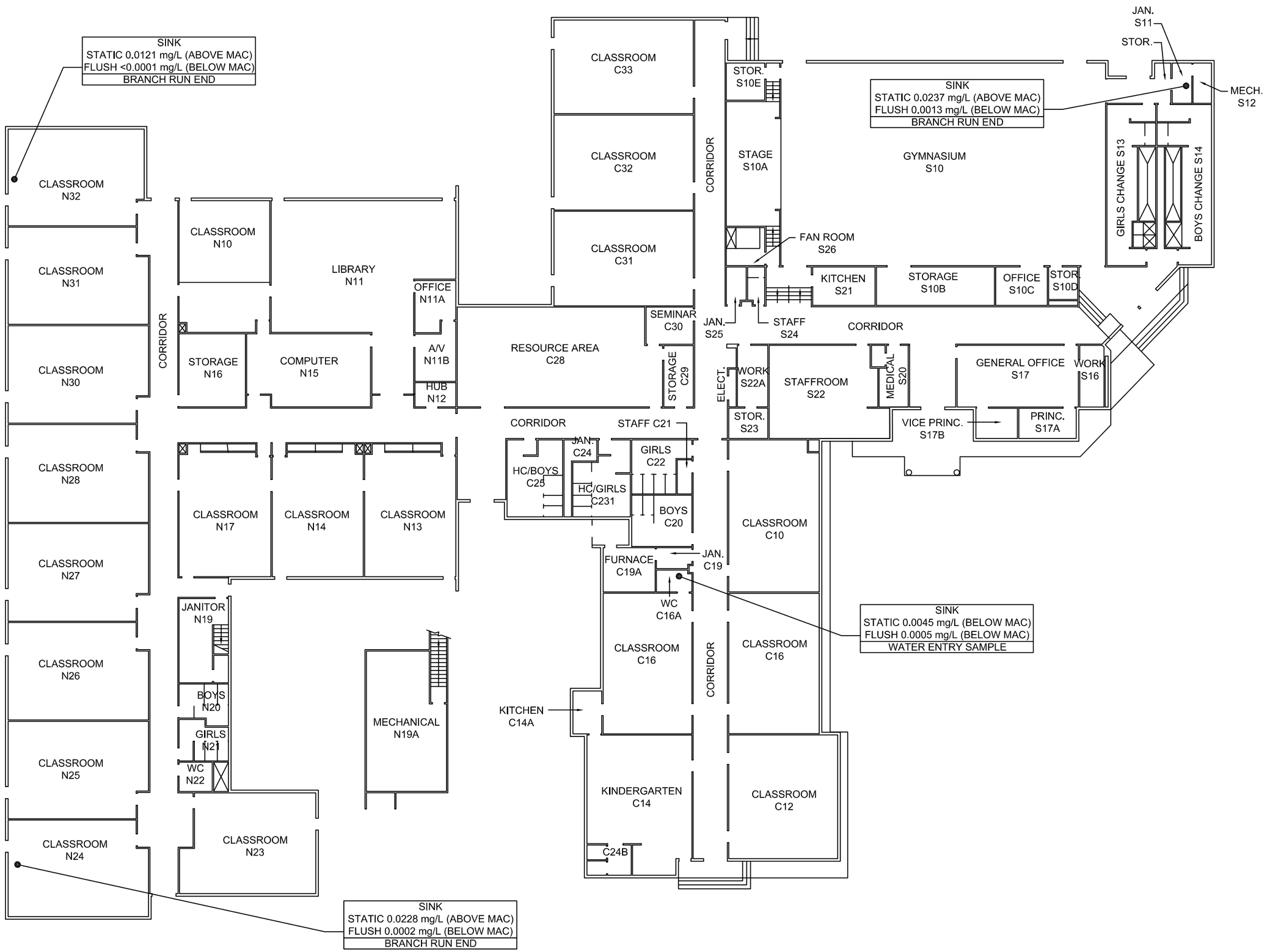
SCALE: NTS

Drawing No.

A1

Plotting Scale
SCALE: NTS

PA20160901132



PROJECT TITLE:

2580
STANLEY STREET
ABBOTSFORD

TEN-BROECK
ELEMENTARY
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

MAIN FLOOR

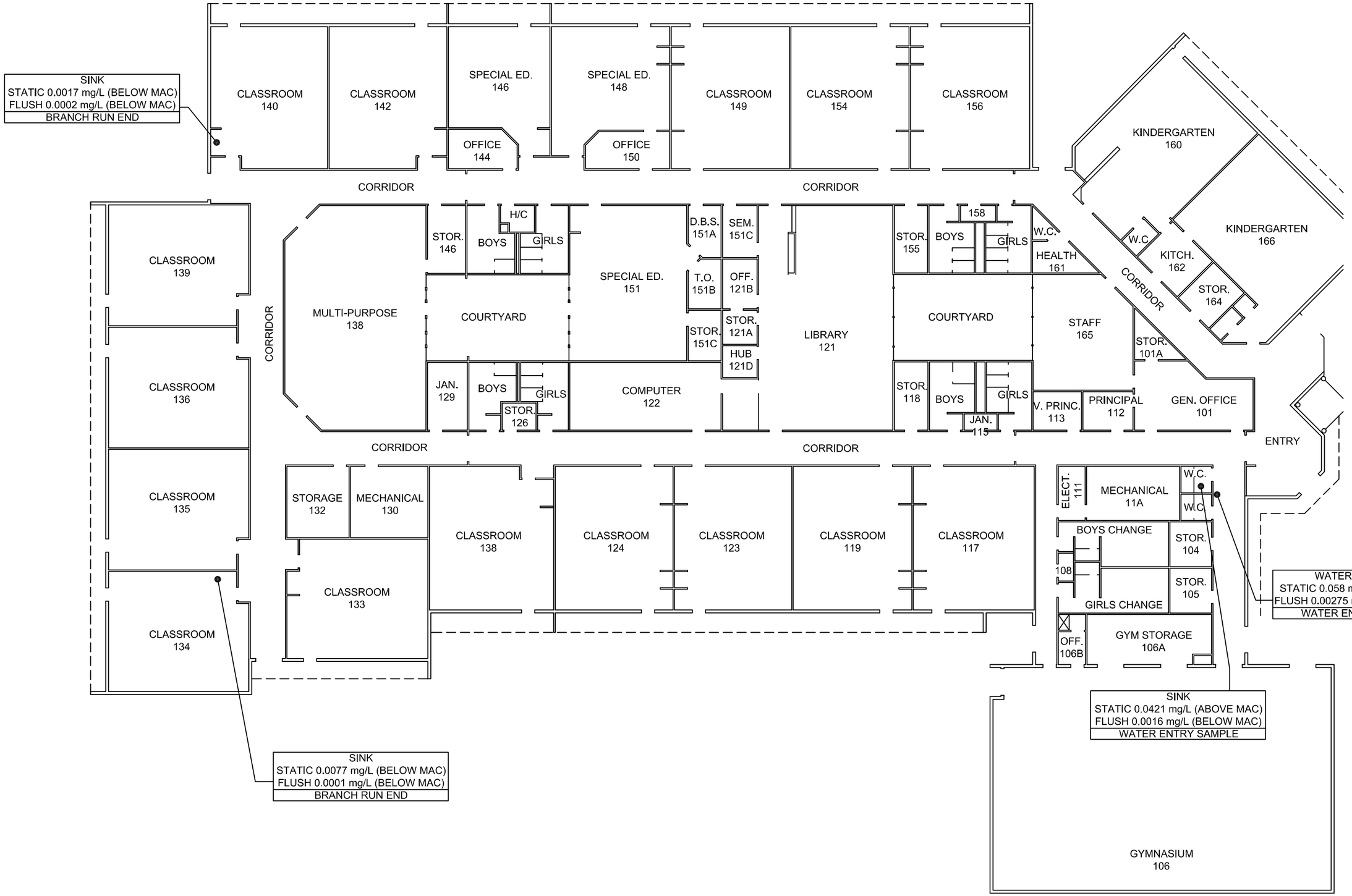
SCALE: NTS

Drawing No.

TEN-AP1

Plotting Scale
SCALE: NTS

PA2016090133



PROJECT TITLE:

3701
BABICH STREET
ABBOTSFORD

TERRY FOX
ELEMENTARY

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

ISSUED

DATE:
SEP. 22, 2016

CHECKED:
HK

DRAWN:
CS

SHEET TITLE:

MAIN FLOOR

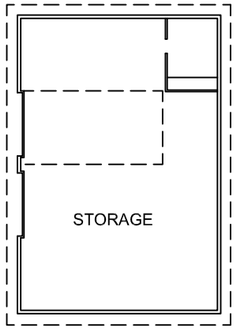
SCALE: NTS

Drawing No.

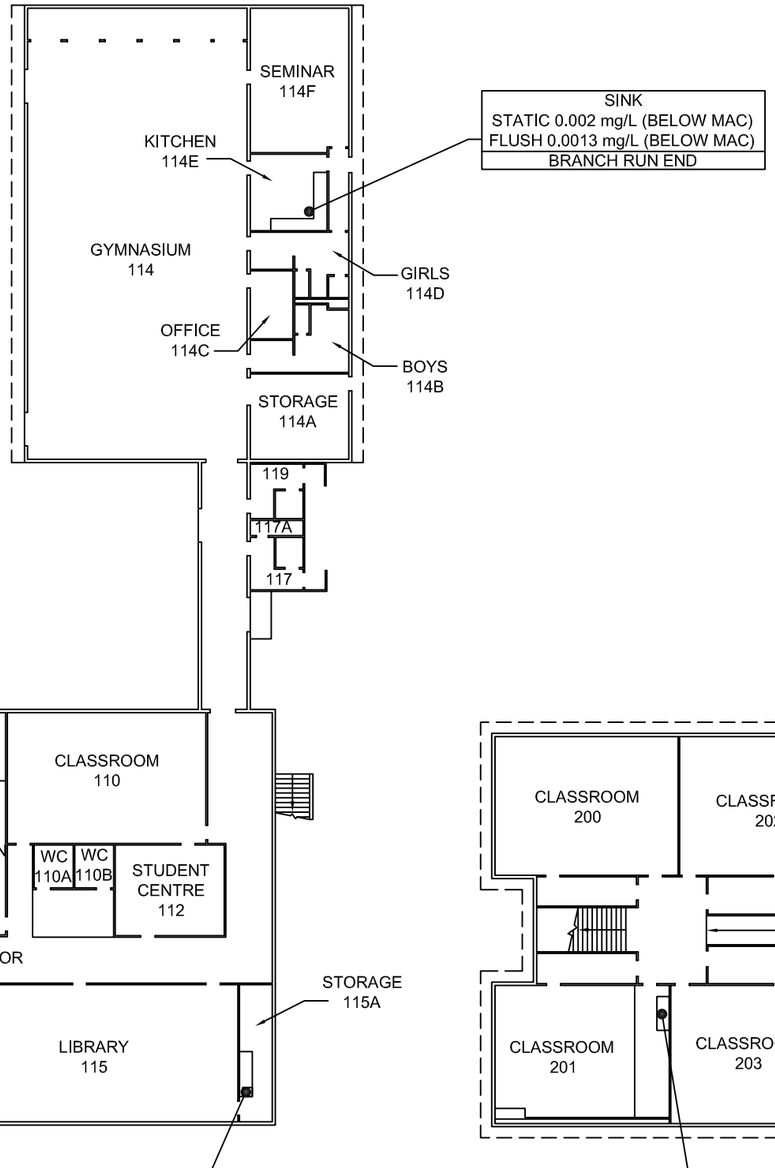
FOX-FL1

Plotting Scale
SCALE: NTS

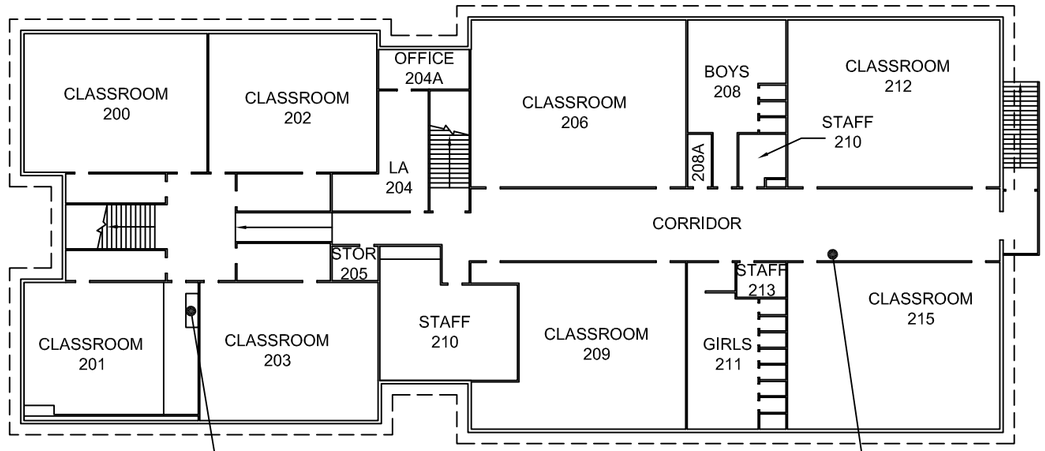
PA20160901 34



STORAGE SHED



MAIN FLOOR



SECOND FLOOR

PROJECT TITLE:
36321 VYE ROAD
ABBOTSFORD

UPPER SUMAS
ELEMENTARY
SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

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DATE:
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DM

SHEET TITLE:
MAIN FLOOR,
SECOND FLOOR
& STORAGE
SHED

SCALE: NTS

Drawing No.

UPS-AP1

Plotting Scale
SCALE: NTS

PA0160960135

SINK
STATIC 0.0063 mg/L (BELOW MAC)
FLUSH 0.0005 mg/L (BELOW MAC)
BRANCH RUN END

SCIENCE N133
CLASSROOM N135
CLASSROOM N137
CLASSROOM N139
CORRIDOR H130
CLASSROOM N131
SPEC. ED N134
SPEC. ED N136
SPEC. ED N138
SPEC. ED C125
BUSINESS ED C127
H122
CLASSROOM C123
CUST C126
H124
CLASSROOM C129
ELEC. W116
BOYS H/C C126
GIRLS H/C C128
GYM STOR. W110A
H127
GYMNASIUM W110
GYM OFFICE W110B
STAIRS S125
SPEC. ED C122
SPEC. ED C130
H120
H127
STAIRS S129
H141 EQUIP
H143 ELEV
H128
GIRLS W110C
CLASSROOM C121
COUNSEL C120
HUB C102B
STOR C102A
HEALTH C100C
STAFF C132
STAFF C134
COMM C100D
COPY C102
W.C C100B
HELTH C100C
BOYS W110D
GIRLS C106
BOYS C104
SPEC. ED C100
CORRIDOR H110
FOYER H105
CUST C104A
H100
OFFICE C100A
V.P. C101B
GEN OFFICE C101
PRINC C101A
GENERAL SHOP W111
MUSIC W115
OFFICE W111A
CLASSROOM C105
STAFF C103
CLASS/MEZZ. W211A

WATER FOUNTAIN
STATIC <0.0001 mg/L (BELOW MAC)
FLUSH <0.0001 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0036 mg/L (BELOW MAC)
FLUSH <0.0001 mg/L (BELOW MAC)
BRANCH RUN END

CLASSROOM E151
CLASSROOM E153
CLASSROOM E155
CLASSROOM E157
CLASSROOM E159
CORRIDOR H140
H150
ELEC. E142
GIRLS E154
BOYS E156
STOR E158
STOR E140
STOR E160C
MUSIC STOR E160D
MECH E161
SPRINK C140
CANTEEN E160B
FOODS E164
H160
MULTI-PURPOSE E160
SPEC. ED E162

WATER FOUNTAIN
STATIC <0.0001 mg/L (BELOW MAC)
FLUSH <0.0001 mg/L (BELOW MAC)
WATER ENTRY SAMPLE

PROJECT TITLE:
34695
BLATCHFORD WAY

WILLIAM FRASER
MIDDLE SCHOOL

SCHOOL DISTRICT No. 34 ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

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DATE:
SEP. 22, 2016

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SHEET TITLE:
FIRST FLOOR

SCALE: NTS

Drawing No.
WAF-FL1

Plotting Scale
SCALE: NTS

PA2016090136

SINK
STATIC 0.009 mg/L (BELOW MAC)
FLUSH 0.0007 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0316 mg/L (ABOVE MAC)
FLUSH 0.0017 mg/L (BELOW MAC)
BRANCH RUN END

LIBRARY
C227

OFFICE
C227A

CLASSROOM
C223

COMPUTERS
C226

CLASSROOM
C229

MECH.
C245

STAIR
S225

H224A

H224B

STAIR
S229

STOR
C241

ELEV.
C243

H220

H227

H224

H240

SPEC. ED
C220

M-STAFF
C244

STOR
C246

CLASSROOM
C221

CUST
C202

F-STAFF
C242

GIRLS
C208

BOYS
C204

CLASSROOM
C200

CUST
C206

H200

CLASSROOM
C205

CLASSROOM
C203

CLASSROOM
C201

PROJECT TITLE:
34695
BLATCHFORD WAY

WILLIAM FRASER
MIDDLE SCHOOL

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
ABBOTSFORD, BC
852 - 9494

REVISIONS

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DATE:
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DM

SHEET TITLE:
SECOND FLOOR

SCALE: NTS

Drawing No.

WAF-FL2

Plotting Scale
SCALE: NTS

PA2016090137

SINK
STATIC 0.0014 mg/L (BELOW MAC)
FLUSH 0.0004 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.01 mg/L (ABOVE MAC)
FLUSH 0.0009 mg/L (BELOW MAC)
WATER ENTRY SAMPLE #2

SINK
STATIC 0.0061 mg/L (BELOW MAC)
FLUSH 0.0007 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0376 mg/L (ABOVE MAC)
FLUSH 0.0021 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0029 mg/L (BELOW MAC)
FLUSH 0.0009 mg/L (BELOW MAC)
WATER ENTRY SAMPLE #3

SINK
STATIC 0.0046 mg/L (BELOW MAC)
FLUSH 0.0008 mg/L (BELOW MAC)
BRANCH RUN END

SINK
STATIC 0.0089 mg/L (BELOW MAC)
FLUSH 0.0018 mg/L (BELOW MAC)
BRANCH RUN END

WATER FOUNTAIN
STATIC 0.0112 mg/L (ABOVE MAC)
FLUSH 0.0018 mg/L (BELOW MAC)
WATER ENTRY SAMPLE #1

SINK
STATIC 0.0068 mg/L (BELOW MAC)
FLUSH 0.0011 mg/L (BELOW MAC)
BRANCH RUN END

CLASSROOM 414
CLASSROOM 412
CLASSROOM 410
CLASSROOM 408
CLASSROOM 406
CLASSROOM 404
STOR 409A
CHORAL ROOM 409
BOYS 407
H/C 405
GIRLS 403
AUX GYM 413
WEIGHT ROOM 401
SPEC ED TMH ROOM 402
OFFICE 402A
DATA 401A
COMM 413B
PHYS ED STOR 415
GIRLS CHANGE ROOM 100B
FIRST AID 413A
INSTRUCT 100A
INSTRUCT 100C
GYMNASIUM 100
STOR 307A
PAINT 2D GRAPHICS 307
CAD ROOM 311A
DRAFTING ROOM 311
DARK RM 306B
ART 306
STOR 306A
BOYS 308
STOR 305A
JAN 309
GIRLS 310
ART LAB 305
CUSTODIAL 152
COMBINATION HOME ECON. 158
ELEC 156
MECH 154
ELEC 101A
MULTI-PURPOSE 101
FOODS ROOM 103A
INST 103C
FREEZER 103B
MEN 105
KITCHEN 103
WOMEN. 108
NSTR 100F
STOR. 100D
BOYS CHANGE ROOM 100E
NSTR 102A
STOR. 107
MUSIC ROOM 102
102B
STOR. 102C
PRACT. 102D
PRACT. 102E
PRACT. 102F
PRACT. 102G
WELD 312A
MECHANICS SHOP 312
METAL WORK SHOP 313
INSTR 312B
INSTR 313B
STOR 312C
STOR 313C
WOOD CONSTRUCTION SHOP 316
DUCT 316C
FINISH 316A
COVERED WORK AREA
INSTR 316B
MEZZANINE 316D
COMPUTERS 314
INSTRUCTION 315
SECURITY ISSUE - COURTYARD NEEDS ACCESS
COVERED ENCLOSURE LINK TO SHOP AREA
CLASSROOM 150
STAIR
FIRST NATION 149A
BOYS 151
ILR ROOM 149
OFFICE 113A
GIRLS 151
OFFICE 113
LIBRARY 115
COPYING 112
STAFF ROOM 110
GENERAL OFFICE 114
V.P 114A
V.P 114B
P.A. 114C
CORRIDOR
PRINCIPAL 114D
HEALTH ROOM 114G
STOR 114E
VAULT 114F
MEDICAL 114H
MECH. 116
STAIR
ELEC. 118A
MECH 118
OFFICE 120A
CLASSROOM 144
SEMINAR 115A
BUSINESS 115B
OFFICE 117A
SPEC ED CAREERS 117
WORK RM 115C
OFFICE 117B
AV. STOR 115D
HUB 115DI
OFFICE 117C
ELEV. CORRIDOR 116A
COUNSELING ROOM 120
OFFICE 120B
OFFICE 120C
CLASSROOM 142
CLASSROOM 140
CLASSROOM 138
BOYS 132
GIRLS 136
H/C 134
CLASSROOM 141
COMPUTER ROOM 119
CLASSROOM 139
125B
DRAMA 123
STAGE 125
CLASSROOM 121
125A
JAN. 128
CLASSROOM 122
CLASSROOM 124
GIRLS 126
BOYS 130

PROJECT TITLE:
32355
MOUAT DRIVE
W.J. MOUAT SECONDARY

SCHOOL DISTRICT No. 34 ABBOTSFORD
31759 KING ROAD
CLEARBROOK, BC
852 - 9494

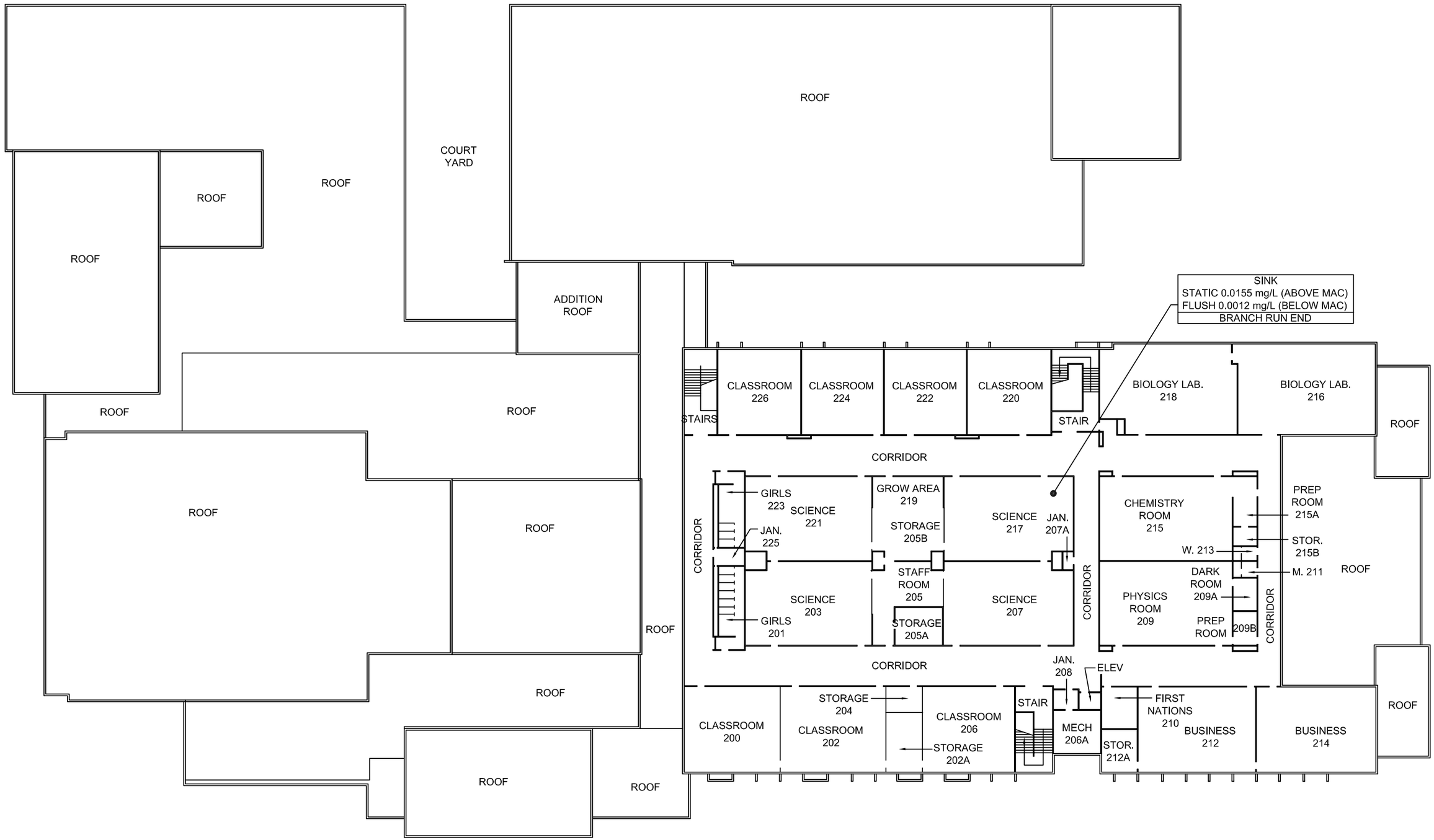
REVISIONS
ISSUED
DATE: SEP. 22, 2016
CHECKED: HK
DRAWN: DM
SHEET TITLE:
LIBRARY
EMRG EXIT
REVIW FLOOR

SCALE: NTS

Drawing No.
WJM-FL1

Plotting Scale
SCALE: NTS

PA20160901138



PROJECT TITLE:

32355
MOUAT DRIVE

W.J. MOUAT
SECONDARY

SCHOOL
DISTRICT
No. 34
ABBOTSFORD

31759 KING ROAD
CLEARBROOK, BC
852 - 9494

REVISIONS

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DATE:
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DRAWN:
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SHEET TITLE:

SECOND FLOOR

SCALE: NTS

Drawing No.

WJM-FL2

Plotting Scale
SCALE: NTS

PA2016090139