



361A Old Finch Ave.
Toronto, ON M1B 5K7
www.torontozoo.com

Telephone: 416-392-5900
Fax: 416-392-5934

Chair
Joe Torzsok
Chief Executive Officer
John Tracogna
Chief Operating Officer
Robin D. Hale

2014-11-03

**REQUEST FOR TENDER
WILDLIFE HEALTH CENTRE
RFT # 47 (2014-09)
ADDENDUM # 5**

This addendum shall be incorporated into, and form part of **RFT # 47 (2014-09)** and take precedence over all requirements of the previously issued bid documents including plans. This addendum must be signed by the bidder (signing officer) in the appropriate space and must be attached to the Form for submission by the bidder. This Addendum consists of one (1) page and the documents listed below.

- 1. Attached is a copy of addendum #5 issued by Diamond Schmitt Architects, dated 2014-10-30**

Receipt of the Addendum shall be acknowledged as part of your submission.

The Board of Management of the Toronto Zoo reserves the right to reject any or all Quotations or to accept any quotation, should it deem such action to be in its interests.

If you have any queries regarding this matter, please contact Mr. Peter Vasilopoulos, Supervisor, Purchasing & Supply, at 416-392-5916.

Yours truly,

Peter Vasilopoulos
Supervisor, Purchasing & Supply

I/we hereby acknowledge receipt of this addendum and make allowance in my bid.

Signed (Must be Signing Officer of Firm)

Name of Firm

Date:

Diamond Schmitt Architects

384 Adelaide Street West, Suite 300
Toronto, Ontario, Canada M5V 1R7

Tel: 416 862 8800 Fax: 416 862 5508
info@dsai.ca

www.dsai.ca

To:	Toronto Zoo 361A Old Finch Avenue Scarborough, Ontario M1B 5K7	ADD. No:	5
Attention:	Leona Mitchell	Project No:	1029
Project:	Toronto Zoo Wildlife Health Centre	File No:	6.2.2
		Date:	2014-10-30
		Pages (with cover):	2 + 27 – 8.5"x11" pages,
		To Email:	lmitchell@torontozoo.ca
		Delivery:	by email

*The following information supplements and/or supersedes the bid documents issued on **2014-09-30**. This Addendum forms part of the contract documents and is to be read, interpreted and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject the bidder to disqualification.*

1.0 Title

1.1 Addendum No. 5

2.0 References

- 2.1 Section 1 – Instruction to Bidders, RFT# 47, dated 2014-09-18
- 2.2 Section 2 – Forms, RFT# 47, dated 2014-09-18
- 2.3 Section 3 – General Conditions – RFT# 47, dated 2014-09-18
- 2.4 Section 4 – Volume 1 – Architectural, Structural, and Landscape Specifications and Schedules – Issued for Bid, dated 2014-09-30
- 2.5 Section 4 – Volume 2 – Mechanical and Electrical Specifications – Issued for Bid, dated 2014-09-30
- 2.6 Section 5 – Toronto Zoo Wildlife Health Centre – Construction Drawings – Issued for Tender, dated 2014-09-30
- 2.7 Section 6 – Available Project Information – Issued for Bid, dated 2014-09-30
- 2.8 Addendum No. 1 – dated 2014-10-07
- 2.9 Addendum No. 2 – dated 2014-10-14
- 2.10 Addendum No. 3 – dated 2014-10-29
- 2.11 Addendum No. 4 – dated 2014-10-29
- 2.12 H.H. Angus Electrical Addendum No. 3, copy attached

3.0 Description

3.1 General

- 3.1.1 Bidders are to acknowledge receipt of this addendum by signing the addendum and attaching the signed addendum to their Tender Submission.
- 3.1.2 Refer to attached H.H. Angus Electrical Addendum No. 3

3.2 Section 1 - Instruction to Bidders

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- 3.3 Section 2 - Forms
 - 3.4 Section 3 – General Conditions
 - 3.5 Section 4 – Volume 1 and Volume 2 Specifications
 - 3.6 Section 5 – Construction Drawings
 - 3.7 Section 6 – Available Project Information
 - 3.8 Response to Bidders' Questions

End of Addendum

Per: Eric Lucassen

Copied: Jon Soules
DSAI File

Diamond Schmitt Architects

384 Adelaide Street West, Suite 300
Toronto, Ontario, Canada M5V 1R7

Tel: 416 862 8800 Fax: 416 862 5508
info@dsai.ca

www.dsai.ca

To:	Toronto Zoo 361A Old Finch Avenue Scarborough, Ontario M1B 5K7	ADD. No:	Electrical Addendum #3
Attention:	Leona Mitchell	Project No:	1029
Project:	Toronto Zoo Wildlife Health Centre	File No:	6.2.2
		Date:	2014-10-31
		Pages (with cover):	1 + 26 – 8.5"x11" pages
		To Email:	lmitchell@torontozoo.ca
		Delivery:	by email

*The following information supplements and/or supersedes the bid documents issued on **2014-09-30**. This Addendum forms part of the contract documents and is to be read, interpreted and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject the bidder to disqualification.*

1. TITLE – HHA ELECTRICAL ADDENDUM #3

2. QUESTIONS AND ANSWERS

1. None.

3. SPECIFICATIONS

3.1. *Reference Specification Section Appendix C – Existing Fire Alarm System Information (issued herewith):*

3.1.1. Information on the existing fire alarm system, provided by the Toronto Zoo, is attached for reference purposes.

4. DRAWINGS

4.1. None.

ADDENDUM

APPENDIX C – EXISTING FIRE ALARM SYSTEM INFORMATION

See following documents provided by Toronto Zoo.

END OF SECTION

FIRE ALARM SYSTEM – EQUIPMENT LIST

SIC	Location	Fire Panel	Operation Stage		Manual Pull Stations	Smoke Detectors	Heat Detector	Bell	Strobes	Horn	Horn /Strobes	Chime/ Strobe	Beam Smoke Detectors	Duct Smoke Detector
			Sngl	Two										
AF0000	Africa Pavilion	Notifier NFS-320	x		19	23	30		1	17	7	1	11	
EH0200	New Giraffe House	Notifier AFP-200	x		6		26			4				1
EP0600	Camel / Yak	Edwards Fireshield	x		1		3	1						
EP0500	Przewalski's Horse	Edwards 1527	x		1		2	1						
MW0000	Village Edge (Malayan Woods)	Notifier AFP-200	x		4		3			4				
VH0000	Valley Halla	Edwards 1526	x			2		1						
VS0000	Entrance Facility (Members & Guest Svcs)	Notifier AFP-200	x		10	3	26			12				
FB0000	Finch Barn	Edwards EST1-2Z3	x			2		1						
MB0000	Main Barn	Edwards 6601	x			4		1				1		
AM0000	Americas Pavilion	Notifier AFP-200	x		7		19			9				
IN0000	Indo-Malaya Pavilion	Notifier AFP-200	x		15	12	29			12	1		8	2
MA0000	Mayan Temple	Edwards Fireshield	x		2		5	1						
CZ0000 / EC0000	Littlefoot (Bird Barn) Barn & Education Portable	Edwards Fireshield	x		5	9	4	3						
IR0000	Indian Rhino House	Edwards 6500	x		5		6	3						
AU0000	Australasia Pavilion	Notifier AFP-200	x		11	11	18			9				1
FB0000 / CB0000	Police Barns (2) – (Calf Barns) Marmots & Ferrets	Edwards 6601	x		5	13	4	1						
ZS0000	Zoological Society Bldg (Education Bldg)	Edwards Fireshield	x		15	7	10	10						
TR0000	Garage / Transit Bldg	Simplex 4005	x		9		29	9						2
AD0000 / CU0000	Admin Complex (Admin/Support Bldg)	Simplex 4100 Notifier Network Annunciator			43	14	13	46	28					8
SS0000 / RW0000	South Service	Simplex 4100	x		2		22							
AS1000	Rhino/Hoofstock Building (African Savanna)	Edwards Fireshield	x		4	3	40	6						2
AS1100	Hoofstock/Bird Building (African Savanna)	Edwards Fireshield	x		4		35	7						1
AS1400	Lion House (African Savanna)	Edwards ESA 2000		x	2		10	2						1
AS1300	Baboon House (African Savanna) (fan shutdown)	Edwards ESA 2000		x	6		9	2						1
AS1200	Cheetah House (African Savanna) (fan shutdown)	Edwards ESA 2000		x	4		10	2						1
AF4000	Africa Restaurant	Notifier AFP-200	x		8	1	15			3				
AP0500	Americas Restaurant	Notifier AFP-200	x		5	1	6			3				
ST0000	Special Events Tent (Interpretive Center)	Edwards Fireshield	x		6		10	6						



Annual Inspection and Testing of Fire Alarm Systems

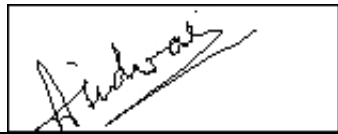
CAN/ULC S536-04

Building Information

Building: **Admin Complex (Admin/Support Bldg)** Contact: **Eric Morris**
 Address: **361A Finch Ave** Phone: **416-392-5900**
 Address: Fax:
 City/Territory/Postal Code: **Scarborough, Ontario M1B 5K7**

Inspection Performed By

<i>Company</i>	<i>Primary/Supervising Tech.</i>	<i>Secondary Tech.</i>
Name: Vipond Inc.	Name: Ather A Kidwai	Thomas Bird
Address: 6380 Vipond Drive	Company: Vipond	Vipond
Address:	Phone: 9055467060	9055467060
City/Trty/PC: Mississauga, Ontario L5T 1A1	CFAA No: 19 993540	



System Control Unit

System Manufacturer: **Simplex** Model No: **4100**
 Operation: Single Stage Operation Two Stage Operation

Summary

Date of inspection: **12/10/2012**

The fire alarm system is certified to have been tested and inspected in accordance with CAN/ULC-S536-04, *Inspection and Testing of Fire Alarm Systems*. Yes No

The fire alarm system documentation is on site and includes a description of the system. Yes No

The fire alarm system is fully functional. Yes No

The fire alarm system has deficiencies that are noted on the attached page(s). Yes No

A copy of the report will be given to the following owner or owner's representative:

Control Unit or Transponder Test

Did the control unit or transponder: Test correctly Not test correctly

Indicate if the following items operate:

Power "ON" visual indicator	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Common visual trouble signal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Coded signal sequences operate not less than the required number of times and the correct alarm signal operates thereafter <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Common audible trouble signal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Trouble signal silence switch	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Main power supply failure trouble signal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Ground fault tested on positive and negative initiates trouble signal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Coded signal sequences are not interrupted by subsequent alarms <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Alert signal	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Ancillary device by-pass will result in a trouble signal <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Alarm signal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Automatic transfer from alert to alarm signal operates	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Input circuit to output circuit operation, including ancillary <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Manual transfer from alert signal to alarm signal	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	device circuits, for correct program operation, as per design and specification, or documentation is supplied	
Automatic transfer from alert signal to alarm signal cancel (acknowledge) feature on a two-stage system	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Fire alarm system reset	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Alarm signal silence inhibit function	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Main power supply to emergency power supply transfer	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Alarm signal manual silence	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Status change confirmation (smoke detectors only) verified	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Alarm signal silence visual indication	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Receipt of the ALARM transmission to the fire signal receiving centre	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Alarm signals, when silenced, automatically reinitiates upon subsequent alarms	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Receipt of the SUPERVISORY transmission to the fire signal receiving centre	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Alarm signal silence automatic cut-out timer?	N/A	Receipt of the TROUBLE transmission to the fire signal receiving centre	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Audible and visual alert signals and alarm signals operate per design	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	The operation of the signal receiving centre disconnect results in a specific trouble indication at the control unit or transponder and transmits a trouble signal to the signal receiving centre	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Input circuit, alarm and supervisory operation, including audible and visual indication	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Telephone number of the fire signal receiving centre	
Input circuit supervision fault causes a trouble indication	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Output circuit alarm indicators	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Output circuit supervision fault causes a trouble indication	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Visual indicator test (lamp test)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Is there a fire signal receiving centre?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Name of the fire signal receiving centre	ADT/Central control center		

Voice Communication Test *No voice communication system*

Indicate if the following items operate:

Power "ON" indicator	<input type="checkbox"/> Yes <input type="checkbox"/> No	All-call voice paging (on emergency power supply)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Common visual trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No	Upon failure of one amplifier, the system automatically transfers to backup amplifier(s)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Common audible trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No	Circuits for emergency telephone call-in operation including audible and visual indication	<input type="checkbox"/> Yes <input type="checkbox"/> No
Trouble signal silence switch	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Circuits for emergency telephone trouble operation including visual indication	<input type="checkbox"/> Yes <input type="checkbox"/> No
All-call voice paging, including visual indicator	<input type="checkbox"/> Yes <input type="checkbox"/> No	Circuits for emergency telephone operation including two-way voice communication operates?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Output circuits for selective voice paging, including visual indication	<input type="checkbox"/> Yes <input type="checkbox"/> No	Emergency telephone operable or in-use tone at handset	<input type="checkbox"/> Yes <input type="checkbox"/> No
Output circuits for selective voice paging trouble operation, including visual indication	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Microphone, including press to talk switch	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Operation of voice paging does not interfere with initial inhibit time or alert signal or alarm	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Emergency telephone verbal communication	<input type="checkbox"/> Yes <input type="checkbox"/> No		

Control Unit or Transponder Inspection

Indicate if the following items operate:

Input circuit designations are correctly identified in relation to connected field devices? Yes No

Output circuit designations are correctly identified in relation to connected field devices? Yes No

Correct designations for common control functions and indicators? Yes No

Plug-in components and modules are securely in place? Yes No

Firmware date:

Firmware revision no.:

Firmware version no.:

Plug-in cables are securely in place? Yes No

Clean and free of dust and dirt? Yes No

Fuses in accordance with manufacture's specifications? Yes No

Control unit or transponder lock is functional? Yes No

Termination points from wiring to field devices are secure? Yes No

Software date:

Software revision no.:

Software version no.:

Power Supply Inspection

Indicate if the following items operate:

Fused in accordance with the manufacturer's marked rating of the system? Yes No

Adequate to meet the requirements of the system? Yes No

Emergency Power Supply Test and Inspection

Indicate if the following items operate:

Correct battery type as recommended by manufacturer? Yes No

Correct battery rating as determined by battery calculations based on full system load? Yes No

Battery voltage – main power supply "ON" (V-dc): **Tub-1-27.9Vdc Tub-2-27.5 Vdc**

Battery voltage with main power supply "OFF" and fire alarm system in supervisory condition (V-dc): **Tub-1-25.6Vdc Tub-2-25.1 Vdc**

Battery current with main power supply "OFF" and fire alarm system in supervisory condition (mA): **Tub-1-1.1Amp Tub-2-0.9A mp**

Battery voltage with main power supply "OFF" and fire alarm system in full load condition (V-dc): **Tub-1-25.2Vdc Tub-2-24.9v dc**

Battery current with main power supply "OFF" and fire alarm system in full load condition (mA): **Tub-1-2.6Amp Tub-2-2.2A mp**

Charging current (A): **Tub-1-1.3Amp Tub-2-3.1A mp**

Batteries are inspected for physical damage? Yes No

Terminals are clean and lubricated? Yes No

Terminals are clamped tightly? Yes No

Correct electrolyte level? Yes No N/A

Are there any electrolyte leaks? Yes No

Batteries are adequately ventilated? Yes No

Battery manufacturer's date code or in-service date: **05/01/2009**

Disconnection causes trouble signal? Yes No

Type of battery tests performed: **Battery capacity meter test**

Record calculated battery capacity (Ah): **Tub-1-27.7Ah Tub-2-22.7Ah**

Record battery terminal voltage after completion of tests (V-dc): **Tub1-25.6vdc Tub 2-25.2vdc**

Battery voltage is not less than 85% of its rating after the load tests? Yes No

Generator provides power to AC circuit serving the fire alarm system? Yes No N/A

Trouble condition at the emergency generator shall result in an audible common trouble signal and visual indication at the require annunciator? Yes No N/A

Annunciator and Remote Trouble Signal Unit Test & Inspection No annunciator or remote trouble signal unit

Indicate if the following items operate:

Power "ON" indicator Yes No

Individual alarm and supervisory input Yes No

Alarm signal silence visual indicator Yes No N/A

zones are clearly indicated and separately designated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Switches for ancillary functions operate as per design and specification or documentation is provided?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Individual alarm and supervisory zone designation labels are properly identified?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Manual activation of alarm signal and indication	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Common trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No	Displays are visible in their installed location and operational?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Visual indicator test (lamp test)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Operates on emergency power?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Input wiring from control unit or transponder is supervised?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Ancillary functions visual indicators	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

Annunciator or Sequential Displays *No annunciator or sequential displays*

Indicate if the following items operate:

Power "ON" indicator	<input type="checkbox"/> Yes <input type="checkbox"/> No	Common trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No
Individual alarm and supervisory zone indication	<input type="checkbox"/> Yes <input type="checkbox"/> No	Visual indicator test (lamp test)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Operation of each individual alarm and supervisory zone indication give identical indication, or lights the identical indicators at the other annunciator(s) and sequential display(s)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Input wiring from control unit or transponder is supervised?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Specify the method of confirming individual alarm and supervisory zone indication and operation:		Alarm signal silence visual indicator	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tested minimum of one alarm zone and one supervisory zone per annunciator or sequential display to confirm operation?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Did the switches for the ancillary functions operate as per design and specification?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Individual alarm and supervisory zone designation labels are properly identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ancillary function visual indicators	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
		Manual activation of alarm signal and indication	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
		Displays are visible in their installed location?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Remote Trouble Signal Unit Test and Inspection *No remote trouble signal unit*

Indicate if the following items operate:

Input wiring from control unit or transponder is supervised?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Audible trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No
Visual trouble signal	<input type="checkbox"/> Yes <input type="checkbox"/> No	Audible trouble signal silence	<input type="checkbox"/> Yes <input type="checkbox"/> No

Printer Test *No printer*

Indicate if the following items operate:

Operates per design and specification?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rated voltage is present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Zone for each alarm initiating device is correctly printed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Data Communication Link Test *No data communication link*

Indicate if the following items operate:

Is a trouble signal received at the control unit or transponder when there is an open loop fault for each data communication link? (DCL)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Perform a short circuit between the control unit to transponder and confirm the annunciation of the fault and the operation outside the shorted section.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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Perform a short circuit between control unit to control unit, confirm annunciation of the fault and the operation outside the shorted section. Yes No N/A

Perform a short circuit between transponder to transponder and confirm the annunciation of the fault and operation outside the shorted section. Yes No N/A

General Comments and Remarks

Fire alarm system working properly left fire system Normal after test.



Sprinkler Inspection Certificate

Toronto Zoo
361A Finch Avenue East
Scarborough, Ontario M1B 5K7

Inspection, Testing and Maintenance of Water-Based Fire Protection Systems

This Inspection was performed in accordance with applicable codes and Standards. The subsequent pages of this report provide performance measurements, listed ranges of acceptable results, and complete documentation of the inspection. Whenever discrepancies exist between acceptable performance standards and actual test results, notes and/or recommended solutions have been proposed or provided for immediate review and approval.

*Inspection Date
Dec 10, 2013*

Building: Toronto Zoo
Contact: Eric Morris
Title: Manager

Company: Vipond Inc.
Contact: Ron Gardiner
Title: Inspector - Sprinkler Fitter



Executive Summary

Generated by: BuildingReports.ca

Building Information			
Building: Toronto Zoo			Contact: Eric Morris
Address: 361A Finch Avenue East			Phone: 416-392-5900
Address:			Fax:
City/Province/Postal Code: Scarborough, Ontario M1B 5K7			Mobile:
Country: Canada			Email:
Inspection Performed By			
Company: Vipond Inc.			Inspector: Ron Gardiner
Address: 6380 Vipond Drive			Phone: 905-564-7060
Address:			Fax:
City/Province/Postal Code: Mississauga, Ontario L5T 1A1			Mobile: 416-678-0902
Country: Canada			Email: ron.gardiner@vipond.ca
System Control Unit			
System Type	System Location	Protected Area	Devices
Wet Pipe			70



Inspection Summary								
Category	Total Items		Serviced		Passed		Failed/Other	
	Qty	%	Qty	%	Qty	%	Qty	%
Valve	22	31.43%	22	100.00%	21	95.45%	1	4.55%
Hose	1	1.43%	1	100.00%	1	100.00%	0	0%
Device	3	4.29%	3	100.00%	2	66.67%	1	33.33%
Pump	6	8.57%	6	100.00%	6	100.00%	0	0%
Sprinkler	2	2.86%	2	100.00%	2	100.00%	0	0%
Alarm	36	51.43%	36	100.00%	36	100.00%	0	0%
Totals	70	100%	70	100.00%	68	97.14%	2	2.86%
Certification								
Company: Vipond Inc.			Building: Toronto Zoo					
Inspector: Ron Gardiner			Contact: Eric Morris					
Signed:			Signed:					
Ron Gardiner								
Certification Type						Number		
Journey Person Certificate						427A-527		



Discrepancy Report

Generated by: BuildingReports.ca

Building: Toronto Zoo				
<p><i>The Discrepancy Report consolidates each discrepancy listed within the various Testing sections of your Inspection. Discrepancies are listed by Category, and grouped by device type. The description of the problem is provided and where appropriate, code references are listed for your convenience. Any item that was inspected that is listed on the Consumer Product Safety Commissions website and are subject to a recall by the manufacturer are included.</i></p>				
Device Type	Manufacturer	ModelNumber	Date	Qty
Items listed for Recall by Manufacturer				
No recalled items found during this inspection.				
🔍 ScanID	📍 Location	🔑 Problem	📖 Reference	
Wet Pipe				
Control Valve				
02826209	1st floor West mechanical rm south service Shut-off Animal research and holding zone 7, 8, 9, 10.	Defective	NFPA 25 4.1.4	
Watermotor Gong				
02825508	1st floor Outside Boiler room heating plant north service maint. Outside bell North building sprinkler systems	Failed Test	NFPA 25 4.1.4	



Proposed Solutions Report

Generated by: BuildingReports.ca

Building: Toronto Zoo

The Proposed Solution Report provides a solution for each discrepancy listed on the Discrepancy Report. Provide a check mark where indicated to approve repairs listed within the report. Items listed as T/M are available for repair on a Time and Materials basis.

🔍 ScanID	📍 Location	🔧 Solution	Model #	Cost	Fix
Wet Pipe					
Control Valve					
02826209	1st floor West mechanical rm south service Shut-off Animal research and holding zone 7, 8, 9, 10.	Replace/Test		T/M	<input type="checkbox"/>
Watermotor Gong					
02825508	1st floor Outside Boiler room heating plant north service maint. Outside bell North building sprinkler systems	Clean	F2	T/M	<input type="checkbox"/>

Inspection & Testing

Generated by: BuildingReports.ca

Building: Toronto Zoo

The Inspection & Testing section lists all of the items inspected in your building. Items are grouped by Passed or Failed/Other. Items are listed by Category. Each item includes the services performed, and the time & date at which testing occurred. For more information about an item, click on the link provided.

Device Type	Location	Service	Time	Date
<i>Passed</i>				
Wet Pipe				
Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Food prep and loading dock.	Tested	9:59:52 AM	12/09/2013
Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Admin.	Tested	10:17:39 AM	12/09/2013
Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Admin. first and second floors	Tested	10:25:35 AM	12/09/2013
Pressure Switch	1st floor West mechanical rm south service Low pressure Curator wing zones 7, 8, 9, 10.	Tested	1:08:56 PM	12/09/2013
Pressure Switch	1st floor West mechanical rm south service Low pressure Animal research and holding zone 7, 8, 9, 10.	Tested	1:11:46 PM	12/09/2013
Pressure Switch	1st floor West Mechanical rm south service Low pressure Health care dry pipe zones 7, 8, 9, 10.	Tested	11:40:41 AM	12/10/2013
Tamper Switch	2nd North Custodial room Shut-off Link zones 4, 5, 6.	Tested	10:39:24 AM	12/09/2013
Tamper Switch	2nd North Custodial room Shut-off 2nd fl. zones 4, 5, 6.	Tested	10:40:35 AM	12/09/2013
Tamper Switch	2nd North Custodial room Shut-off .Penthouse zones 4, 5, 6.	Tested	10:56:32 AM	12/09/2013
Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Food prep and loading dock.	Tested	9:34:05 AM	12/09/2013
Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Water supply to south building	Tested	9:48:04 AM	12/09/2013
Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off admin.	Tested	10:17:01 AM	12/09/2013
Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Admin. first and second floors	Tested	10:21:41 AM	12/09/2013
Tamper Switch	1st floor North Custodial room Shut-off Basement zones 2 and 3	Tested	11:02:31 AM	12/09/2013
Tamper Switch	1st floor North Custodial room Shut-off 1st floor zones 2 and 3	Tested	11:04:31 AM	12/09/2013

Device Type	Location	Service	Time	Date
Tamper Switch	1st floor West mechanical rm south service Shut-off Curator wing zones 7, 8, 9, 10.	Tested	1:07:52 PM	12/09/2013
Tamper Switch	1st floor South Janitor's closet Main shut-off Curator 1st fl	Tested	1:44:06 PM	12/09/2013
Tamper Switch	1st floor South Janitor's closet Main shut-off Curator 2nd fl	Tested	1:44:53 PM	12/09/2013
Tamper Switch	1st floor West Mechanical rm south service Shut-off health care dry pipe zones 7, 8, 9, 10.	Tested	11:44:47 AM	12/10/2013
Tamper Switch	1st floor West mechanical rm south service Shut-off Animal research and holding zone 7, 8, 9, 10.	Tested	1:38:58 PM	12/10/2013
Tamper Switch	1st floor North Inside boiler room area Shut-off Main incoming water supply	Tested	1:45:04 PM	12/10/2013
Tamper Switch	Ground West Garage shop Main shut-off Paint booth	Tested	1:24:12 PM	12/10/2013
Waterflow Switch	2nd North Custodial room Water flow Link zones 4, 5, 6.	Tested	10:47:36 AM	12/09/2013
Waterflow Switch	2nd North Custodial room Water flow 2nd fl zones 4, 5, 6.	Tested	10:52:42 AM	12/09/2013
Waterflow Switch	2nd North Custodial room Water flow .Penthouse zones 4, 5, 6.	Tested	10:54:08 AM	12/09/2013
Waterflow Switch	1st floor Inside boiler room heating plant north service maint. Water flow Food prep and loading dock.	Tested	10:12:19 AM	12/09/2013
Waterflow Switch	1st floor Inside Boiler room heating plant north service maint. Water flow Admin.	Tested	10:17:45 AM	12/09/2013
Waterflow Switch	1st floor Inside boiler room heating plant north service maint. Water flow Admin. first and second floors	Tested	10:23:37 AM	12/09/2013
Waterflow Switch	1st floor North Custodial room Water flow Basement zones 2 and 3	Tested	11:03:56 AM	12/09/2013
Waterflow Switch	1st floor North Custodial room Water flow 1st floor zones 2 and 3	Tested	11:05:44 AM	12/09/2013
Waterflow Switch	1st floor South Janitor's closet Main water flow Curator 1st fl	Tested	1:44:47 PM	12/09/2013
Waterflow Switch	1st floor South Janitor's closet Main water flow Curator 2nd fl	Tested	1:44:50 PM	12/09/2013
Waterflow Switch	1st floor West mechanical rm south service Water flow Curator wing zones 7, 8, 9, 10.	Tested	1:54:04 PM	12/09/2013
Waterflow Switch	1st floor West mechanical rm south service Water flow Animal research and holding zone 7, 8, 9, 10.	Tested	1:54:20 PM	12/09/2013
Waterflow Switch	1st floor West Mechanical rm south service Water flow Health care dry pipe zones 7, 8, 9, 10.	Tested	11:45:02 AM	12/10/2013
Waterflow Switch	Ground West Garage shop Main water flow Paint booth	Tested	1:24:23 PM	12/10/2013
Drain	1st floor Inside boiler room heating plant north service maint. Main drain test Main water supply	Checked	9:52:30 AM	12/09/2013

Device Type	Location	Service	Time	Date
Watermotor Gong	1st floor West Mechanical rm south service Outside bell Sprinkler systems.	Tested	11:45:45 AM	12/10/2013
Fire Dep't Connection	1st floor boiler room heating plant north service maint. welding shop	Inspected	9:51:56 AM	12/09/2013
Air Compressor	1st floor North Inside boiler room area in domestic pump room Food prep area		9:46:34 AM	12/10/2013
Air Compressor	1st floor West Mechanical rm south service System air supply Dry sprinkler system		11:45:49 AM	12/10/2013
Excess Pressure Pump	1st floor Inside boiler room heating plant north service maint. System supply pressure Wet sprinkler systems	Tested	10:20:21 AM	12/09/2013
Excess Pressure Pump	1st floor West mechanical rm south service System supply pressure South building wet sprinklers	Tested	1:12:41 PM	12/09/2013
Jockey Controller	1st floor Inside boiler room heating plant north service maint. Pump power supply Wet sprinkler systems	Inspected	10:30:07 AM	12/09/2013
Jockey Controller	1st floor West mechanical rm south service Pump power supply South building wet sprinklers	Inspected	8:32:41 AM	12/10/2013
Sprinkler Box	1st floor Inside boiler room Spare heads Sprinklers systems	Checked	9:51:07 AM	12/09/2013
Sprinkler Box	1st floor Inside Mechanical rm south service Spare heads Sprinkler systems.	Checked	11:45:48 AM	12/10/2013
Alarm Valve	1st floor Inside Boiler room heating plant north service maint. Wet sprinklers Admin.	Tested	10:17:21 AM	12/09/2013
Alarm Valve	1st floor Inside boiler room heating plant north service maint. Wet sprinklers Admin. first and second floors	Tested	10:23:15 AM	12/09/2013
Alarm Valve	1st floor West mechanical rm south service Wet sprinkler system Animal research and holding zone 7, 8, 9, 10.	Tested	1:11:15 PM	12/09/2013
Alarm Valve	1st floor West Mechanical rm south service Wet sprinkler system Curator wing zones 7, 8, 9, 10.	Tested	1:19:21 PM	12/09/2013
Control Valve	2nd North Custodial room Shut-off Link zones 4, 5, 6.	Checked	10:39:19 AM	12/09/2013
Control Valve	2nd North custodial room Shut-off 2nd fl. zones 4, 5, 6.	Checked	10:39:56 AM	12/09/2013
Control Valve	2nd North Custodial room Shut-off .Penthouse zones 4, 5, 6.	Checked	10:55:14 AM	12/09/2013
Control Valve	1st floor Inside boiler room heating plant north service maint. Shut-off Food prep and loading dock.	Checked	9:33:58 AM	12/09/2013
Control Valve	1st floor Inside boiler room heating plant north service maint. Shut-off Water supply to south building	Checked	10:16:17 AM	12/09/2013
Control Valve	1st floor Inside boiler room heating plant north service maint. Shut-off admin.	Checked	10:16:57 AM	12/09/2013
Control Valve	1st floor Inside boiler room heating plant	Checked	10:21:04 AM	12/09/2013



Device Type	Location	Service	Time	Date
Control Valve	north service maint. Shut-off Admin. first and second floors			
Control Valve	1st floor North Custodial room Shut-off Basement zones 2 and 3	Checked	11:03:19 AM	12/09/2013
Control Valve	1st floor North Custodial room Shut-off 1st floor zones 2 and 3	Checked	11:05:07 AM	12/09/2013
Control Valve	1st floor West mechanical rm south service Shut-off Curator wing zones 7, 8, 9, 10.	Checked	1:07:24 PM	12/09/2013
Control Valve	1st floor South Janitor's closet Main shut-off Curator 1st fl	Checked	1:44:40 PM	12/09/2013
Control Valve	1st floor South Janitor's closet Main shut-off Curator 2nd fl	Checked	1:45:00 PM	12/09/2013
Control Valve	1st floor West Mechanical rm south service Shut-off health care dry pipe zones 7, 8, 9, 10.	Checked	8:34:46 AM	12/10/2013
Control Valve	1st floor North Inside boiler room area Shut-off Main incoming water supply	Checked	1:44:30 PM	12/10/2013
Control Valve	Ground West Garage shop Main shut-off Paint booth	Checked	1:23:54 PM	12/10/2013
Dry Pipe Valve	1st floor Inside boiler room heating plant north service maint. Dry sprinkler system Food prep and loading dock.		8:59:29 AM	12/09/2013
Dry Pipe Valve	1st floor West Mechanical rm south service Dry pipe sprinkler system Health care dry pipe zones 7, 8, 9, 10.		11:43:35 AM	12/10/2013
<i>Failed/Other</i>				
Wet Pipe				
Watermotor Gong	1st floor Outside Boiler room heating plant north service maint. Outside bell North building sprinkler systems	Tested	10:32:57 AM	12/09/2013
Control Valve	1st floor West mechanical rm south service Shut-off Animal research and holding zone 7, 8, 9, 10.	Tested	1:39:08 PM	12/10/2013

Wet Pipe Fire Sprinkler Systems

Generated by: *BuildingReports.ca*

Building: Toronto Zoo

A sprinkler system employing automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately from sprinklers opened by heat from a fire.

Air Compressor

Manufacturer	Model #	Phase	Low psi	High psi	Amps	OK	ScanID
Makita	Mac2400		90	125		<input checked="" type="checkbox"/>	18192760
Motormaster		1	90	125		<input checked="" type="checkbox"/>	18192762

Excess Pressure Pumps

Manufacturer	Model #	Location	Install Date	Serial Number
Albany		1st floor Inside boiler room heating plant north service maint. System supply pressure Wet sprinkler systems	09/19/2006	
Power On	Type	Turn On psi	Turn Off psi	Horsepower
	Automatic	105	130	115
				1/3
Manufacturer	Model #	Location	Install Date	Serial Number
Albany		1st floor West mechanical rm south service System supply pressure South building wet sprinklers	09/19/2006	
Power On	Type	Turn On psi	Turn Off psi	Horsepower
	Automatic	110	120	115
				1/3

Controller

Manufacturer	Model #	Location	Install Date	Serial Number
Moeller		1st floor Inside boiler room heating plant north service maint. Pump power supply Wet sprinkler systems	09/19/2006	
AC Power	Time Meter	Start psi	Stop psi	Battery Supervised
Normal Phase	N/A	105	130	No
				Generator Backup
				No
Manufacturer	Model #	Location	Install Date	Serial Number
moeller		1st floor West mechanical rm south service Pump power supply South building wet sprinklers	09/19/2006	
AC Power	Time Meter	Start psi	Stop psi	Battery Supervised
Normal Phase	N/A	110	120	No
				Generator Backup
				No

Alarms

Pressure Switch

Type	Description	Manufacturer	Low	High	Zone/Address	OK	ScanID
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Low	Supervisory	Potter Electric	29		1, M1-24	<input checked="" type="checkbox"/>	02825519
Low	Trouble	Potter Electric	105		1, M1-23	<input checked="" type="checkbox"/>	02825516
Low	Trouble	Potter Electric	80		1, M1-22	<input checked="" type="checkbox"/>	02825514
Low	Supervisory	Potter Electric	100		1, M1-47	<input checked="" type="checkbox"/>	02826213
Low	Supervisory	Potter Electric	95		1, M1-49	<input checked="" type="checkbox"/>	02826216
Low	Trouble	Potter Electric	28		1, M2-48	<input checked="" type="checkbox"/>	02826217
Tamper Switch							
Type	Description	Manufacturer	Sec		Zone/Address	OK	ScanID
Control Valve	Trouble	Victaulic			1, M1-67	<input checked="" type="checkbox"/>	18200105
Control Valve	Trouble	Victaulic			1, M1-68	<input checked="" type="checkbox"/>	18200106
Control Valve	Trouble	Victaulic			1, M1-69	<input checked="" type="checkbox"/>	23933875
Control Valve	Trouble	Grinnell			1, 8, M1-32	<input checked="" type="checkbox"/>	18200100
Control Valve	Trouble	Victaulic			1, M1-33	<input checked="" type="checkbox"/>	18200104
Control Valve	Trouble	Potter Electric			1, 7, M1-31	<input checked="" type="checkbox"/>	18200101
Control Valve	Trouble	System Sensor			1, M1-30	<input checked="" type="checkbox"/>	18200103
Control Valve	Trouble	Grinnell			1, M1-56	<input checked="" type="checkbox"/>	18200108
Control Valve	Trouble	Grinnell			1, M1-57	<input checked="" type="checkbox"/>	18200109
Control Valve	Trouble	Grinnell			1, M1-46	<input checked="" type="checkbox"/>	18200111
Control Valve	Trouble	Grinnell			1, M2-8	<input checked="" type="checkbox"/>	18200114
Control Valve	Trouble	Grinnell			1, M2-18	<input checked="" type="checkbox"/>	18200113
Control Valve	Trouble	Grinnell			1, M2-10	<input checked="" type="checkbox"/>	18200112
Control Valve	Trouble	Grinnell			1, M1-11	<input checked="" type="checkbox"/>	18200110
Control Valve	Trouble	Potter Electric			1, M1-25	<input checked="" type="checkbox"/>	18200099
Control Valve	Trouble	Victaulic			1, M1-19	<input checked="" type="checkbox"/>	18200115
Waterflow Switch							
Type	Manufacturer	Model #	Sec	Size	Zone/Address	OK	ScanID
Vane	Potter Electric	vsr.f	34		1, M1-70	<input checked="" type="checkbox"/>	02826208
Vane	Potter Electric	vsr.f	35		1, M1-71	<input checked="" type="checkbox"/>	02826207
Vane	Potter Electric	vsr f	37		1, M1-72	<input checked="" type="checkbox"/>	02826206
Pressure Switch	Potter Electric	wfs-5	38		1, M1-36	<input checked="" type="checkbox"/>	02825518
Pressure Switch	Potter Electric	wfs-5	35		1, M1-37	<input checked="" type="checkbox"/>	02825515
Pressure Switch	Potter Electric	WFS-5			1, M1-36	<input checked="" type="checkbox"/>	02825511
Vane	Potter Electric	vsr f	28		1, M1-58	<input checked="" type="checkbox"/>	02826201
Vane	Potter Electric	vsr f	12		1, M1-59	<input checked="" type="checkbox"/>	02826202
Vane	Potter Electric	vsr f	29		1, M2-13	<input checked="" type="checkbox"/>	02826227
Vane	Potter Electric	vsr.f	47		1, M2-14	<input checked="" type="checkbox"/>	02826229
Pressure Switch	Potter Electric	wfs-5	27		1, M2-17	<input checked="" type="checkbox"/>	02826214
Pressure Switch	Potter Electric	wfs-5	23		1, M2-16	<input checked="" type="checkbox"/>	02826219
Pressure Switch	System Sensor	epsa10-1	25		1, M2-28	<input checked="" type="checkbox"/>	02826221
Vane	Potter Electric	VSR-F	40		1, M1-20	<input checked="" type="checkbox"/>	02826231

Components

Alarm Valve							
Type	Manufacturer	Model #	Position	Status	Size	OK	ScanID
Grooved	Astra	D	Open	Supervised	4"	<input checked="" type="checkbox"/>	02825513
Flanged	Grinnell	A	Open	Supervised	6"	<input checked="" type="checkbox"/>	02825512
Grooved	Firematic	L	Open	Supervised	4"	<input checked="" type="checkbox"/>	02826211
Grooved	Firematic	L	Open	Supervised	4"	<input checked="" type="checkbox"/>	02826212

Control Valve							
Type	Manufacturer	Size	Position	Status	OK	ScanID	
Butterfly	Victaulic	3"	Open	Supervised	<input checked="" type="checkbox"/>	02826203	
Butterfly	Victaulic	2.5"	Open	Supervised	<input checked="" type="checkbox"/>	02826204	
Butterfly	Victaulic	2.5"	Open	Supervised	<input checked="" type="checkbox"/>	02826205	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02825520	
Butterfly	Victaulic	4"	Open	Supervised	<input checked="" type="checkbox"/>	02825502	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02825521	
Butterfly	Grinnell	6"	Open	Supervised	<input checked="" type="checkbox"/>	18200102	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02825501	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02825500	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02826210	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02826226	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02826228	
Butterfly	Grinnell	4"	Open	Supervised	<input checked="" type="checkbox"/>	02826222	
OS&Y	McAvity	6"	Open	Supervised	<input checked="" type="checkbox"/>	02825504	
Butterfly	Victaulic	2"	Open	Supervised	<input checked="" type="checkbox"/>	02826230	
Butterfly	Grinnell	4"	Open	Supervised	<input type="checkbox"/>	02826209	

Dry Pipe Valve							
Manufacturer		Model #	Serial #	Size	OK	ScanID	
GEM		f-3021		4"	<input checked="" type="checkbox"/>	02825517	
Air psi	Water psi	Position	Status	Trip Time Sec	Timing		
42	45	Open	Supervised	38			

Dry Pipe Valve							
Manufacturer		Model #	Serial #	Size	OK	ScanID	
Astra		A		4"	<input checked="" type="checkbox"/>	02826223	
Air psi	Water psi	Position	Status	Trip Time Sec	Timing		
37	55	Open	Supervised	25			

Devices

Drain							
Type	Size	Supply psi	Static psi	Residual psi	Sec	OK	ScanID
Main	2"	55	55	50	2	<input checked="" type="checkbox"/>	18192758

Fire Dep't Connection						
Location		Type	Size	OK	ScanID	
1st floor boiler room heating plant north service maint. welding shop		Wall	4"	<input checked="" type="checkbox"/>	02825507	
Sprinkler Box						
Qty	Tool Available?	Size	Manufacturer	Location	OK	ScanID
12	Yes	12 unit		1st floor Inside boiler room Spare heads Sprinklers systems	<input checked="" type="checkbox"/>	02825509
10	Yes	12 unit		1st floor Inside Mechanical rm south service Spare heads Sprinkler systems.	<input checked="" type="checkbox"/>	18192761
Watermotor Gong						
Location		Manufacturer	Model #	Size	OK	ScanID
1st floor West Mechanical rm south service Outside bell Sprinkler systems.		Potter Electric		8"	<input checked="" type="checkbox"/>	18192763
1st floor Outside Boiler room heating plant north service maint. Outside bell North building sprinkler systems		Viking	F2	8"	<input type="checkbox"/>	02825508

Inventory & Warranty Report

Generated by: BuildingReports.ca

Building: Toronto Zoo

The Inventory & Warranty Report lists each of the devices and items that are included in your Inspection Report. A complete inventory count by device type and category is provided. Items installed within the last 90 days, within the last year, and devices installed for two years or more are grouped together for easy reference.

Device or Item	Category	% of Inventory	Quantity
Dry Pipe Valve	Valve	2.86%	2
Control Valve	Valve	22.86%	16
Tamper Switch	Alarm	22.86%	16
Sprinkler Box	Sprinkler	2.86%	2
Fire Dep't Connection	Hose	1.43%	1
Drain	Device	1.43%	1
Pressure Switch	Alarm	8.57%	6
Waterflow Switch	Alarm	20.00%	14
Alarm Valve	Valve	5.71%	4
Excess Pressure Pump	Pump	2.86%	2
Jockey Controller	Pump	2.86%	2
Watermotor Gong	Device	2.86%	2
Air Compressor	Pump	2.86%	2

Device or Item	Qty	Model #	Description	Install Date
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In Service - 5 Years to 10 Years

Wet Pipe

Drain	1		Main	09/19/2006
Fire Dep't Connection	1		Wall	09/19/2006
Sprinkler Box	2			09/19/2006
Excess Pressure Pump	2		Automatic	09/19/2006
Alarm Valve	1	D	Grooved	09/19/2006
Dry Pipe Valve	1	A	Flanged	09/19/2006
Alarm Valve	2	L	Grooved	09/19/2006
Dry Pipe Valve	1	f-3021	Flanged	09/19/2006
Alarm Valve	1	A	Flanged	09/19/2006
Control Valve	8		Butterfly	09/19/2006
Control Valve	1	8292	Butterfly	09/19/2006
Control Valve	1	WC-8282	Butterfly	09/19/2006
Tamper Switch	8		Control Valve	09/19/2006
Air Compressor	1	Mac2400	Automatic	09/19/2006
Control Valve	1	OSYSU-1	OS&Y	09/19/2006
Jockey Controller	2			09/19/2006
Air Compressor	1		Automatic	09/19/2006
Pressure Switch	1		Low	09/19/2006
Pressure Switch	4	pss-120	Low	09/19/2006
Pressure Switch	1	pss-40	Low	09/19/2006
Tamper Switch	1	OSYSU-1	Control Valve	09/19/2006
Tamper Switch	1	PCV	Control Valve	09/19/2006



Device or Item	Qty	Model #	Description	Install Date
<i>In Service - 5 Years to 10 Years</i>				
Waterflow Switch	4	vsr f	Vane	09/19/2006
Waterflow Switch	1	VSR-F	Vane	09/19/2006
Waterflow Switch	3	vsr.f	Vane	09/19/2006
Waterflow Switch	4	wfs-5	Pressure Switch	09/19/2006
Waterflow Switch	1	wsf-5	Pressure Switch	09/19/2006
Watermotor Gong	1			09/19/2006
Tamper Switch	1	PIBV	Control Valve	09/19/2006
Waterflow Switch	1	epsa10-1	Pressure Switch	09/19/2006
Control Valve	2		Butterfly	09/19/2006
Control Valve	2	705	Butterfly	09/19/2006
Control Valve	1	721	Butterfly	09/19/2006
Tamper Switch	2		Control Valve	09/19/2006
Tamper Switch	2	705	Control Valve	09/19/2006
Tamper Switch	1	721	Control Valve	09/19/2006
Watermotor Gong	1	F2		09/19/2006

Zone Address Report

Generated by: BuildingReports.ca

Building: Toronto Zoo		Wet Pipe		
<p><i>The Zone Address Report lists all of the devices and items that have an individual address, or are grouped together under a common zone. The device type, location and description are included for your reference. For more information on the device, use the link provided under ScanID.</i></p>				
Address	Device Type	Location	Description	ScanID
Control Panel 1				
M1-67	Tamper Switch	2nd North Custodial room Shut-off Link zones 4, 5, 6.	Control Valve	18200105
M1-68	Tamper Switch	2nd North Custodial room Shut-off 2nd fl. zones 4, 5, 6.	Control Valve	18200106
M1-69	Tamper Switch	2nd North Custodial room Shut-off .Penthouse zones 4, 5, 6.	Control Valve	23933875
M1-72	Waterflow Switch	2nd North Custodial room Water flow .Penthouse zones 4, 5, 6.	Vane	02826206
M1-71	Waterflow Switch	2nd North Custodial room Water flow 2nd fl zones 4, 5, 6.	Vane	02826207
M1-70	Waterflow Switch	2nd North Custodial room Water flow Link zones 4, 5, 6.	Vane	02826208
M1-47	Pressure Switch	1st floor West mechanical rm south service Low pressure Curator wing zones 7, 8, 9, 10.	Low	02826213
M1-22	Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Admin. first and second floors	Low	02825514
M1-23	Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Admin.	Low	02825516
M1-49	Pressure Switch	1st floor West mechanical rm south service Low pressure Animal research and holding zone 7, 8, 9, 10.	Low	02826216
M2-48	Pressure Switch	1st floor West Mechanical rm south service Low pressure Health care dry pipe zones 7, 8, 9, 10.	Low	02826217
M1-24	Pressure Switch	1st floor Inside boiler room heating plant north service maint. Low pressure Food prep and loading dock.	Low	02825519
M1-25	Tamper Switch	1st floor North Inside boiler room area Shut-off Main incoming water supply	Control Valve	18200099
M1-30	Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Admin. first and second floors	Control Valve	18200103
M1-33	Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Water supply to south building	Control Valve	18200104
M1-56	Tamper Switch	1st floor North Custodial room Shut-off	Control Valve	18200108

		Basement zones 2 and 3		
M1-57	Tamper Switch	1st floor North Custodial room Shut-off 1st floor zones 2 and 3	Control Valve	18200109
M1-11	Tamper Switch	1st floor West mechanical rm south service Shut-off Animal research and holding zone 7, 8, 9, 10.	Control Valve	18200110
M1-46	Tamper Switch	1st floor West mechanical rm south service Shut-off Curator wing zones 7, 8, 9, 10.	Control Valve	18200111
M2-10	Tamper Switch	1st floor West Mechanical rm south service Shut-off health care dry pipe zones 7, 8, 9, 10.	Control Valve	18200112
M2-18	Tamper Switch	1st floor South Janitor's closet Main shut-off Curator 2nd fl	Control Valve	18200113
M2-8	Tamper Switch	1st floor South Janitor's closet Main shut-off Curator 1st fl	Control Valve	18200114
M1-36	Waterflow Switch	1st floor Inside boiler room heating plant north service maint. Water flow Admin. first and second floors	Pressure Switch	02825511
M1-58	Waterflow Switch	1st floor North Custodial room Water flow Basement zones 2 and 3	Vane	02826201
M1-59	Waterflow Switch	1st floor North Custodial room Water flow 1st floor zones 2 and 3	Vane	02826202
M2-16	Waterflow Switch	1st floor West mechanical rm south service Water flow Animal research and holding zone 7, 8, 9, 10.	Pressure Switch	02826219
M2-28	Waterflow Switch	1st floor West Mechanical rm south service Water flow Health care dry pipe zones 7, 8, 9, 10.	Pressure Switch	02826221
M2-13	Waterflow Switch	1st floor South Janitor's closet Main water flow Curator 1st fl	Vane	02826227
M2-14	Waterflow Switch	1st floor South Janitor's closet Main water flow Curator 2nd fl	Vane	02826229
M1-36	Waterflow Switch	1st floor Inside boiler room heating plant north service maint. Water flow Food prep and loading dock.	Pressure Switch	02825518
M1-37	Waterflow Switch	1st floor Inside Boiler room heating plant north service maint. Water flow Admin.	Pressure Switch	02825515
M2-17	Waterflow Switch	1st floor West mechanical rm south service Water flow Curator wing zones 7, 8, 9, 10.	Pressure Switch	02826214
M1-19	Tamper Switch	Ground West Garage shop Main shut-off Paint booth	Control Valve	18200115
M1-20	Waterflow Switch	Ground West Garage shop Main water flow Paint booth	Vane	02826231
Zone/Address: 7				
M1-31	Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off admin.	Control Valve	18200101
Zone/Address: 8				
M1-32	Tamper Switch	1st floor Inside boiler room heating plant north service maint. Shut-off Food prep and loading dock.	Control Valve	18200100

Notes & Recommendations

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Building: Toronto Zoo				
<p><i>The Notes & Recommendations Report details additional inspection notes made by the Inspectors during the course of the building inspection. Notes are grouped by SystemID. A link to the item is provided for more information.</i></p>				
General Note				
<p>Dry trip test only on dry pipe systems. All low points drained on south system. Could not access low points on north system. Low points to be maintained by staff.</p>				
Note	Device Type	Location	Comment	ScanID
Wet Pipe				
2	Dry Pipe Valve	1st floor Inside boiler room heating plant north service maint. Dry sprinkler system Food prep and loading dock.	Passed	02825517
<p>Dry trip test only because of cold weather.</p>				
3	Dry Pipe Valve	1st floor West Mechanical rm south service Dry pipe sprinkler system Health care dry pipe zones 7, 8, 9, 10.	Passed	02826223
<p>Dry trip test only</p>				