



Department of Zoology

University of Toronto

Steve Smith

Toronto, Ontario, Canada M5S 1A1 Fax. (416) 978-8532

978-5246

Oct. 3, 1994

Ron Pansino
Facilities & Services
University of Toronto
215 Huron St.
Toronto, Ontario

Dear Ron;

Our maple/beech restoration project is well underway. We have planted approximately 200 plants on our site, which were native to this region prior to European contact. We intend to plant another 200 or so wildflowers this spring to enhance our foundation plantings.

As you know Professor Fife and his students have been working on a landscape design for the entire Zoology Department grounds and our landscape committee will be in a position to select one of these design proposals around Christmas time. We would be most appreciative of your advice at that time, as to which designs are practical from a user and financial perspective.

The grounds department and especially Jack Funk have been co-operative in providing sound advice, site preparation (including topsoil), fencing and in the near future, leaves for composting and mulch.

U. of T. Day will transpire on Oct. 22 and we have asked the President and/or Dean of Arts & Science to plant a 10' ceremonial shagbark hickory in the center of our site. For this day we shall require a hole 3' wide X 3' deep.

I am now following up your former suggestion to provide a sign for the site. Can F & S provide this explanatory sign by Oct. 21/94? If so it should read as follows:

The Zoology Department, University of Toronto is restoring this site to the native flora of this bioregion. We are using the maple/beech ecosystem model which existed on this site prior to European contact. Co-workers in this project are: School of Landscape Architecture, U of T, Canadian Wildflower Society, The Friends of Altona Forest and Petticoat Creek.

If you wish to have an explanatory tour of the site do call me anytime.

Truly,


James L. Hodgins
Chair - RWZL Landscape Committee

c.c.: Jack Funk, Ed Fife, Katherine Murray, Jim French, Ann Zimmerman



UNIVERSITY of TORONTO RAMSAY WRIGHT ZOOLOGICAL LABORATORIES
Department of Zoology 25 HARBORD STREET TORONTO M5S 1A1, ONTARIO, CANADA

May 18/95

Scott Olan
Grounds Dept.
U. of T.

Scott;

I was at Eagle Stone, Brampton, yesterday and checked out their various types of flagstone. There appears to be only two types that meet our requirements in terms of thickness for a pathway in Zoowoods.

- 1) Kingston Hue - light colour with reddish stripes and flush @ \$218/ton. 2".
I'll drop off a sample of this to your office today.
- 2) Owen Sound - uniform light grey colour @ \$151./ton. 2" thickness.

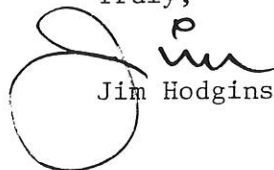
The sales clerk estimated that 600 sq. feet would require 8 tons of flagstone. This would be delivered on 4 skids to the site.

Sales taxes are dependent on the status of U. of T. as far as exemption.

Eagle Stone telephone number is 905-794-1833.

I think the Kingston Hue is by far the more beautiful stone and would best compliment and heighten the ambience of the maple/beech woods theme.

Truly,



Jim Hodgins

c.c. J. Mannone
P. Williams



METROWORKS

Water Supply
Division

Stake-Out Report

Number

Requested By	Name <u>U OF T</u>	Date of Request <u>MAY. 31/95</u>
	Utility/Municipality	Phone <u>978-4744.</u>
	Address	Reason
Stake-out	Location <u>ST. GEORGE / HARBORD.</u>	Date Required <u>JUNE 2/95</u>
		Time <u>10:00 A.M.</u>
Sketch	<div style="border: 1px solid black; padding: 10px; min-height: 300px;"><p>— CLEAR</p><p>— NO CONFLICT.</p></div>	
Given By	Signature <u>[Signature]</u>	Date <u>JUNE - 2 / 95</u>
	Phone	Time <u>10:00 A.M.</u>
Note	<p>The information supplied represents an approximate location only of Metro Works Water Supply Division underground plant.</p> <p>Hand dig within 1 metre of the location indicated.</p> <p>This report is valid for a period of 90 days from Date of Request.</p>	
Accepted By	Signature <u>[Signature]</u>	Date <u>JUNE - 2/95</u>
	Utility/Municipality	



North

Request Information

Stakeout Information

Date received: (Year/Month/Day) 95-6-2	Time received: <input type="checkbox"/> 24 hr. clock <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Received by: SHOR
Requested by: SCOTT OLAN	<input type="checkbox"/> Contractor <input checked="" type="checkbox"/> Municipality <input type="checkbox"/> Home owner <input type="checkbox"/> Other Utility	Phone:
Name of company: GROUND 5 DEPT. U.O.T.	Type of work: <input type="checkbox"/> Bell <input type="checkbox"/> Hydro <input type="checkbox"/> Sewer & Water <input type="checkbox"/> Road Work <input type="checkbox"/> Foundation Work <input type="checkbox"/> Fencing <input type="checkbox"/> Landscaping	
Excavator's Work Area	Town/Municipality: CITY	<input checked="" type="checkbox"/> Improved <input type="checkbox"/> Unimproved
From: W/B/L #25	To: W/ST/L of ST GEORGE	On (Street): HARBOR ST.
Special instructions:	Side: AT REAR.	
On site contact: SCOTT	Date required: (Year/Month/Day) 95-6-8	Time required: 945 <input type="checkbox"/> 24 hr. clock <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
Date of this stakeout: (Year/Month/Day) 95-6-8	Time: 1000 <input type="checkbox"/> 24 hr. clock <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Pressure: <input checked="" type="checkbox"/> Low <input type="checkbox"/> Intermediate <input type="checkbox"/> High <input type="checkbox"/> XHP
Main marked: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Diameter:	Side: BOTH
On: HARBOR ST. & ST. GEORGE	From: W/B/L #25	To: W/ST/L of ST. GEORGE
Services marked: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pressure: <input type="checkbox"/> Low <input type="checkbox"/> Intermediate <input type="checkbox"/> High <input type="checkbox"/> XHP	Side:
On: HARBOR ST. OR ST. GEORGE	From: AS	To: ABOVE
Number of services: NIL	Specify building numbers:	
Method of marking: <input type="checkbox"/> Paint <input type="checkbox"/> Stake <input type="checkbox"/> Other	Documents given to excavator: <input type="checkbox"/> Service listing <input type="checkbox"/> Support specifications <input type="checkbox"/> As built drawings	Measurements in: <input type="checkbox"/> Imperial <input type="checkbox"/> Metric

Additional information if required

CHIR AT REAR OF 25 HARBOR ST.

AT ST. GEORGE SIDE.

TWO GAS SERVICES INTO BUILDING

BOTH OFF HARBOR ST.

Name of excavator's employee signing this form:

"I acknowledge receipt of a copy of this report and I have read and fully understand the **warning and conditions** on the reverse side."

Signature of excavator:

Signature of locator:



RECORD OF LOCATING TELEPHONE PLANT

STAKE-OUT

REQUEST FOR STAKE - OUT SHOULD BE AT
LEAST 48 HOURS PRIOR TO DIGGING

SC	590	Loc Code	423	Location			25 HARBOUR ST	Serial Number	F510199							
App't Time	10:30	Y	05	M	06	D	09	Requested By	UOF T.							
Contact Name								Phone No.								
Nature and Location of Work								Date Requested								
DIGGING POND AT SE CORNER OF BUILDING AT #25																
Limits of this Stake-Out								HARBOUR ST								
Method of Marking	Stakes		Type of Plant	Buried	Remarks Additional Instructions NO BELL CABLES IN WORK AREA.											
	Paint			Conduit												
	Other															
CAUTION HAND DIG WITHIN 1 METRE OR 3.28 FEET OF MARKINGS DEPTH OF BELL PLANT VARIES AND MUST BE DETERMINED BY HAND DIGGING																
Legend	Sketch not Drawn to Scale															
Hydrant																
Hydro Pole																
Bell Pole																
Anchor																
M.H. (Other than Bell)																
Sewer																
Catch Basin																
R/R																
Fence Line	FL															
Property Line	FL															
B.T. Manhole																
Paint	P															
Stake	S															
Traffic Control																
Pedestal																
B.T. Cable	B															
Conduit	C															
Contractor's signature										Thank You for Calling Before You Dig				Plat Reference	7-10	
Accepted By										Title			Company			
Account Code	SR	Hours	1	Work Started	NO	Follow-Up	NO	Time								

CONTRACTOR TO RETAIN 1 COPY ON JOB SITE

CUSTOMER COPY - COPY 1

NOTICE OF EXCAVATION

ON ST. GEORGE CAMPUS

Excavation work is not to commence until signed acknowledgement is received from the UTILITIES DIVISION and the BUILDING & GROUNDS DIVISION (GROUNDS SERVICES) of Facilities and Services. Please submit this form to these Divisions. Allow 3 working days for processing.

Acknowledgement from the Utilities Division and the Buildings & Grounds Division does not relieve the contractor from obtaining locates from Telephone, Gas, and other outside Utilities and municipal services organizations.

Project Title: Zoo woods Project Number:
Name of Prime Contractor: Grounds Dept. Facilities and Services

Name of U. of T. Project Manager: Scott Olan Phone: 978 - 4744
Jack Funk

Project Particulars:
Construction of a Maple - Beech eco-garden with
a pond / french drain / hibernaculum walkway

Reason for Excavation: ① Pond ② Hibernaculum
③ French Drain

Excavation work is to be carried out at: Ramsay Wright Zoo labs
(Attach sketch showing location)
South - East side

Date to Start Work: upon aproval Time: AM/PM....

U. of T. Project Manager Signature: Scott Olan Date: June 12, 1995

Contractor Signature: same Date:

Utilities and Buildings and Grounds Divisions Acknowledgements:

Utilities Mechanical: H. Key Date: 19 June 95

Utilities Electrical: John B... Date: 19 JUNE 95

Buildings and Grounds: J. Funk Date: 14.6.95

Comments: NO electrical U&S service from U. & T. Utilities in that area. All but
* The east water supply to Zoology is just south
of your excavation



UNIVERSITY OF TORONTO

Office of the Vice-Provost and Assistant Vice-President (Planning and Budget)

27 King's College Circle, Toronto, Ontario, Canada M5S 1A1 Tel: (416) 978-7116 Fax: (416) 978-1029 E-Mail: DWLang@AVPGC.Planning.UToronto.CA

June 27, 1995

MEMORANDUM

To: Ron Pansino

Subject: Zoology Naturalistic Landscaping

Funding for this project has been approved with the following allocation:

H. Duthie Memorial	\$1,107
J. Oliver (Facilities & Services)	4,000
Department of Zoology	1,500
D. Lang (Planning and Budget)	8,400
Total	\$15,007

Please direct invoices to this office for payment from various sources.


Elizabeth Sisam
Planning and Research Officer

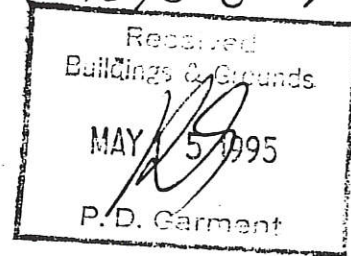
ES/ek

cc: D. Lang
J. Oliver
A. Zimmerman



Now I would send these out as DRAFT MINUTES & ASK FOR ANY CORRECTIONS.
159536 R.H. 15/05/95

MINUTES OF MEETING
May 04, 1995



Attendees: R. Churcher
P.D. Garment
E. Sisam
R. Pansino

Subject: Meeting regarding "Phase II" of the Zoology Naturalistic Landscaping held in P.D. Garment's office - 215 Huron Street. Discussions focused on layout, staging and construction.

Item 1 **Gabion Walls**

- Proposed materials -- broken concrete RP
- Height, less than two feet above grade - Not noted in meeting.
- One coarse broken concrete below grade
- Place soil within interstices of the broken concrete to allow future plantings.
- Propose two students be assigned to this project under the direction of Jack Funk and Scott Olan. JF/SO

Item 2 **Bridge**

- Propose two bridges to span the dry creek bed. Future
- May be deleted and use large boulders to cross the dry creek bed.

Item 3 **Pond**

- Proposed pond may be 8" - 10" deep Future
- Suitable liner -- plan calls for purchased liner, PVC etc. Suggest blue gumbo clay for the bottom of the pond.
- Other soils may be added including glacial eratics, grey blue shales (from the Toronto brick yards).
- Re-circulating pumps to be provided by the Zoology Department and power to be directed to the preferred site, at a later date. Future
- Investigate best location to provide rainwater source from closest rainwater leader. RP
- OR IF NECESSARY*
- Two flowering crabapples to be removed. JF/SO

Item 4 Personal Safety

Propose this area be inspected at night for adequate lighting. RP

Item 5 Other

- Funding as required in worksheets to be organized by E. Sisam. ES
- Approximately \$1000.00 (\pm) can be diverted from the Tree Dedication Program to this project.
- E. Sisam will send thank you notes to donors.

} specifics
not
discussed.

R. Pansino 5/12

Prepared by R. Pansino
/ph

29 June/95

File: \G&S\95
June 26, 1995

MEMORANDUM

TO: Jack Funk, Supervisor
Grounds Services

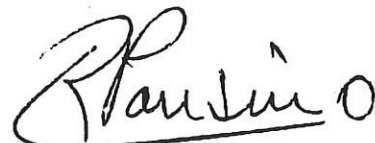
FROM: Ron Pansino, Manager
Grounds & Stores

SUBJECT: Zoology Building - Naturalization Project

Jack, as of this writing, funds for the Zoology project have not been approved. Grounds Services is therefore in a position to bridge-finance all work and invoicing carried out to date.

Please cease all work until further notice and please provide documentation showing aggregated hours worked to date, including invoicing.

Thank you.



Ron Pansino

/ph
c: P.D. Garment

*There is a total of 70 hours at 27.40 \$ 1918. —
Sand \$ 170. —
\$ 2088. —*



Department of Zoology, University of Toronto

MEMORANDUM

10 July 1995

To: Elizabeth Sisam
Planning and Research Officer

Re: Zoology Naturalistic Landscaping

I am writing in response to your memo of June 27, 1995, addressed to Ron Pansino concerning the funding for Zoology's naturalistic landscaping project. You note that the Department of Zoology is responsible for \$1500.00 towards this project. However, it is our understanding that we have agreed to purchase the pond liner and pump and are responsible for the amount these total which may be less than the \$1500 noted. I hope this is your understanding of the situation. If this is not the case, please contact me as soon as possible.

Janet Mannone
Chairman,
Zoology Landscape Committee
underg@zoo.utoronto.ca
(-8879)

cc: R. Pansino



UNIVERSITY OF TORONTO

Office of the Vice-Provost and Assistant Vice-President (Planning and Budget)

27 King's College Circle, Toronto, Ontario, Canada M5S 1A1 Tel: (416) 978-7116 Fax: (416) 978-1029 E-Mail: DWLang@AVPGC.Planning.UToronto.CA

July 21, 1995

MEMORANDUM

To: Janet Mannone

Subject: Zoology Naturalistic Landscaping

My understanding of the Department of Zoology's contributions to the garden is different from that stated in your memorandum dated 10 July, 1995

The funding plan which was approved specifically identified the total amount of the contribution from each source. As the estimate for the project is a budget estimate, it is to be expected that some items may cost more or others less. These are determined as work is done. Our discussion with Professors Churcher and Zimmerman indicated a contribution of \$1500, not pond and liner in kind.

Until the project is fully complete, I think it would be prudent to assume that the Department contributes the full amount.

Elizabeth Sisam
Planning and Research Officer

ES/ek

cc: P. Garment
R. Pansino

Water Arts Inc.
4158A Dundas ST. W.
Etobicoke, Ontario
M8X 1X3
(416) 239-5345 FAX: 237-1098

RECEIVING COPY RECEIVING COPY RECEIVING COPY RECEIVING COPY

Order Date July 25 '95 Date Required _____
Customer Account Number _____

Charge To: University of Toronto Ship To: _____

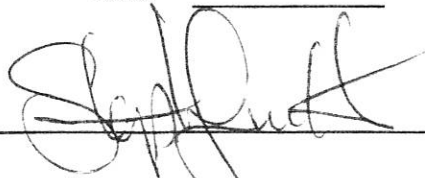
Contact Scott Olsen Phone # _____
P.O. # 321867 (work request #) Fax. # _____

CODE	DESCRIPTION	QTY.	FILLED	B.O.
	6m x 8m, 40mil liner	1	1	<input checked="" type="checkbox"/>
	4m x 3m, 20mil liner	1	1	<input checked="" type="checkbox"/>

Pick up ☒ Ship via _____ OTHER _____

Packed by _____ DATE _____

RECEIVING COPY # 9914



NOTE: After checking order, send this copy to your accounting department, or department that approves payment. Report shortages promptly to Water Arts Inc. Please retain this copy until you receive your invoice, in case of adjustment.

80 Woffrey Avenue Toronto Ontario Canada M4K 1K2 Tel/Fax (416) 466-6428

July 25, 1995

Janet Manone
Zoowoods Landscape Committee
Zoology Dept.
U. of Toronto

Dear Janet;

I visited Zoowoods last Saturday and was delighted to see the progress on the flagstone path and pond/stream excavation. However there are several conditions on site that do not favour its future success:

- 1) The rampant growth of alien weeds is smothering the hundreds of native species that were planted in the core area. As the brochure, 'Eco-gardens at University of Toronto' pointed out there are approximately 60 species of native plants in the garden and these are in imminent danger of being extinguished by the tangle of ruderal vegetation which is monopolizing the site. This is the identical fate which befell Ecology Park - they refused to eliminate the weeds and lost both a native ecosystem and long term public support and good will. The solution for weed control was discussed at several of our committee meetings and it was agreed that the method used successfully for 8 years at the University of Waterloo Robert Dorney Wildlife Garden would also work for us, ie. each committee member is responsible for the ongoing removal of only one species, eg: Steve - dandelions, Pat - ragweeds, Janet - mustards, Ann - Norway maples, etcetera. If manual weed removal is not kept up for at least three years, the project will fail. Wood chips and herbicides is not a solution.

I have several native plant rescue sites on line for the Canadian Wildflower Society, but I am not willing to recommend Zoowoods as a recipient, if rescued plants are going to die by human neglect.

Peterson's 'Field Guide to the Wildflowers' distinguishes between alien and native for all species listed.

- 2) One of the mature native ash trees on site has suffered considerable damage to its trunk from construction equipment. This is inexcusable as trees are the priority consideration on this site. Protective fencing should be around all three ashes.

CANADIAN WILDFLOWER SOCIETY



- 3) The core fencing is in a shambles with damage evident to juvenile trees, shrubs and wildflowers.

I wish all this could be remedied at the next meeting of the Zoowoods Committee.

[Handwritten signature]

RECEIVED A

WATER ARTS INC.
4158A Dundas St. W.
Etobicoke, Ontario M8X 1X3
(416) 239-5345 FAX: (416) 237-1098

CONTROLLER'S OFFICE

INVOICE #646899
July 31, 1995

University of Toronto
215 Huron St., 2nd Floor
Toronto, Ontario
M5S 1A2

*Change to
(Landscape)*

RE: Receiving Copy #9914 picked up by Stephen Smith from the Dept. of Zoology, verbal Purchase Order#321867, initial order placed by Scot Olan

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	6M x 8M, 40mil liner	\$674.90	\$674.90
1	4M x 3M, 20mil liner	\$97.75	<u>\$97.75</u>
	Sub-Total		\$772.65
	G.S.T.		\$54.08
	P.S.T.		<u>\$61.81</u>
	TOTAL DUE		<u>\$888.54</u>

*change to
1-001-120-51
Mary Dulac
Aug 16/95
Smith
zoology*

GST121236459

TERMS: net due on receipt, 2% interest per month on overdue accounts

WATER ARTS INC.
4158A Dundas St. W.
Etobicoke, Ontario M8X 1X3
(416) 239-5345 FAX: (416) 237-1098

INVOICE #14433
September 20, 1995

University of Toronto
ATT: Scott Olan
215 Huron St., 2nd Floor
Toronto, Ontario
N5S 1A2

RE: Receiving Copy #9944

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	2M x 2.5M, 40mil	\$70.55	\$70.55
16	sq.ft. geotextile	\$.25	\$4.00
6'	1" ID hose	\$2.04	\$12.24
1	1" 'T'	\$1.63	<u>\$1.63</u>
	Sub-Total		\$88.42
	G.S.T.		\$6.18
	P.S.T.		<u>\$7.07</u>
	TOTAL DUE		<u><u>\$101.67</u></u>

GST121236459

TERMS: net 15 days, 2% interest per month on overdue accounts

*To Peter
18 Oct/95*

WATER ARTS INC.
4158A Dundas St. W.
Etobicoke, Ontario M8X 1X3
(416) 239-5345 FAX: (416) 237-1098

INVOICE #14432

September 20, 1995

University of Toronto
ATT: Scott Olan
215 Huron St., 2nd Floor
Toronto, Ontario
N5S 1A2

RE: Receiving Copy #9943

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	FK-WG-5 filter and pump	\$248.19	\$248.19
1	'Pond Doctor' book	\$24.95	\$24.95
8'	1" ID hose	\$2.04	\$16.32
1	Male Adaptor	\$.68	<u>\$.68</u>
	Sub-Total		\$290.14
	G.S.T.		\$20.30
	P.S.T.		<u>\$21.21</u>
	TOTAL DUE		<u><u>\$331.65</u></u>

GST121236459

TERMS: net 15 days, 2% interest per month on overdue accounts

To Peter
18 Oct/95