

100 Simcoe Street South, Oshawa, Ontario L1H 7M7 • Tel. (905) 723-4623 • Fax (905) 723-7947 • E-mail contactus@opuc.on.ca

September 21, 2011

Board Secretary Ontario Energy Board P.O. Box 2319 27th Floor 2300 Yonge Street Toronto, Ontario M4P 1E4

Dear Ms. Walli:

Re: Oshawa PUC Networks Inc. (ED-2002-0560)

Board File Number EB-2011-0073

Pursuant to our submission of September 20, 2011, Oshawa PUC Networks has prepared redacted versions of the Interrogatory Responses which were filed in confidence for the above mentioned rate application. These redacted Responses have been filed using the RESS system. Two (2) paper copies of the submission are enclosed for your files.

If you have any questions about this submission please contact the undersigned.

Yours truly,

Phil Martin, VP Finance & Regulatory Compliance

Email: pmartin@opuc.on.ca
Phone: (905) 723-4626 ext 5250

Encl(2)

Appendix D

METSCO Proposal Acceptance

in response to

School Energy Coalition Interrogatory #15

OSHAWA PUC NETWORKS INC

100 SIMCOE STREET SOUTH OSHAWA, ONTARIO L1H 7M7

STATEMENT OF WORK

ASSET CONDITION ASSESSMENT AND ASSET MANAGEMENT PLAN

OCTOBER 16, 2010

OVERVIEW

OSHAWA PUC NETWORKS (OPUCN) OWNS AND MANAGES INFRASTRUCTURE TO DELIVER SAFE, RELIABLE AND EFFICIENT ENERGY SERVICES TO MEET THE NEEDS OF OUR CUSTOMERS AND THE ENVIRONMENT. OPUCN HAS A SERVICE AREA OF APPROXIMATELY 149 SQ KM WITH APPROXIMATELY 52.553 CUSTOMERS. PRESENT PEAK DEMAND IS 210MW.

OPUCN WILL BE FILING A COST OF SERVICE APPLICATION TO THE ONTARIO ENERGY BOARD (OEB) AND ONE OF THEIR REQUIREMENTS IS TO PROVIDE AN ASSET MANAGEMENT PLAN SUPPORTED BY AN ASSET CONDITION ASSESSMENT. TO THIS END WE ARE INVITING INTERESTED PARTIES TO SUBMIT QUOTATIONS TO DELIVER THIS REQUIREMENT TO SUPPORT OUR COST OF SERVICE APPLICATION.

INSTRUCTION TO BIDDERS

- A. INTERESTED PARTIES TO **SUBMIT QUOTATION** BASED ON THE SCOPE OF WORK IDENTIFIED HEREIN, **NO LATER THAN 12 NOON, WEDNESDAY OCTOBER 27, 2010.**
- **B. QUOTATIONS TO INCLUDE:**
 - MAJOR DETAILS OF THE APPROACH OR METHODOLOGY IN CONDUCTING THE ASSESSMENT
 - ANY REQUIREMENTS FROM OSHAWA PUC NETWORKS (I.E. RESOURCE HRS, RECORDS, ETC)
 - 5 YEAR LOAD FORECAST (2010-2014) IS AVAILABLE UPON REQUEST
 - INDIVIDUAL FIXED PRICING FOR EACH ITEM, INCLUDING DISBURSEMENTS IF ANY
 - CONFIRMED START DATE AND END DATE
- C. ALL WORK TO COMPLY WITH PRESENT SAFETY STANDARDS, OCCUPATIONAL HEALTH AND SAFETY ACT, ESA REQUIREMENTS AND ANY OTHER RELATED REGULATORY REQUIREMENTS
- D. QUESTIONS ARE TO BE DIRECTED TO DENISE FLORES, VICE PRESIDENT OF ENGINEERING AND OPERATIONS, AT 905-723-4626, ext 5315 or via email dflores@opuc.on.ca

SCOPE OF WORK:

- 1) QUOTATIONS ARE TO BE SUBMITTED FOR THE FOLLOWING ITEMS:
 - AN ASSET CONDITION ASSESSMENT
 - RELATED ASSET CONDITION REPORT
 - AN ASSET MANAGEMENT PLAN

Scope of Work cont'd

- 2) INCLUDED IN THE **ASSESSMENT REPORT** IS THE IDENTIFICATION OF THE CONDITION AND VALUE OF THE EXISTING DISTRIBUTION PLANT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - POLES (WOOD AND CONCRETE Approx 11824)
 - OVERHEAD LINES (PRIMARY & SECONDARY Approx 512 KM)
 - OVERHEAD EQUIPMENT (TRANSFORMERS, SWITCHES, ARRESTERS, ETC)
 - UNDERGROUND CABLES (PRIMARY AND SECONDARY Approx 439 KM)
 - UNDERGROUND INFRASTRUCTURE (UG DUCTS, CABLE CHAMBERS, VAULTS, PADMOUNT TYPE TRANSFORMERS, ETC)
 - SUB-STATIONS (44KV AND 13.8KV 2TS & 8MS) AND RELATED STATION EQUIPMENT (TRANSFORMERS, SWITCHGEAR, CIRCUIT BREAKERS ETC)
- 3) REPORT TO INCLUDE RECOMMENDATIONS AND TIMELINES FOR CORRECTIVE ACTIONS
- 4) **ASSET MANAGEMENT PLAN** TO IDENTIFY OR RECOMMEND APPROACH AND PLAN TO MAINTAIN OR REPLACE ASSETS TO
 - IMPROVE SYSTEM SERVICE RELIABILITY AND ADDRESS THE ASSET CONDITION AND LOAD GROWTH
 - COVER A 5-10 YR TIMELINE AND COST TO IMPLEMENT RECOMMENDATIONS.
- 5) WORK TO COMMENCE NO LATER THAN NOVEMBER 1, 2010
- 6) FINAL ASSET CONDITION REPORT AND ASSET MANAGEMENT PLAN TO BE SUBMITTED NO LATER THAN DECEMBER 31, 2010. SUBMISSION TO BE SENT TO:

DENISE A. FLORES, P. ENG
VICE PRESIDENT OF ENGINEERING & OPERATIONS
100 SIMCOE ST SOUTH
OSHAWA, ON, L1H 7M7

Asset Condition Assessment/Report and Asset Management Plan

Evaluation of Quotes

Statement of Work submitted to 3 interested parties on October 15, 2010 with a requested submission extended deadline of October 29, 2010:

- METSCO proposal received October 23, 2010
- proposal received October 27, 2010
- regretfully declined to bid email of October 28, 2010

Comparison summary between METSCO & as below:

METHODOLOGY OR DELIVERABLES	METSCO		COMMENTS
ASSET CONDITION ASSESSMENT			
a) Scope of study	Will assess all distribution plant as identified in SOW and more. Very descriptive in methodology or scope plan	Not complete. Will not assess OH lines as LDC does not normally have data. UG ducts, cable chambers, station relays or site facilities and some OH line equipment (insulators, cutouts) not mentioned.	METSCO in line with meeting OPUCN requirements
	Will perform assessment of 100% Substation assets	Only transformers breakers and switchgear mentioned	METSCO conducting 100% and meets OPUCN requirements
b) approach	Will conduct site visits or inspections to obtain significant samples to validate results for both OH & UG plant	Did not mention conducting any site visits or inspections but will rely on existing data or information available from OPUCN, including OPUCN staff interviews and expertise in asset management	approach not acceptable. METSCO is in line in meeting OPUCN requirements

c) Data collection	Will collect available	Will provide OPUCN	METSCO provides
for condition	data related to age,	with template for	more expertise and
assessment	asset loading, in-service	OPUCN staff to	utilize their services
	failures and physical	populate.	to prepare for
	condition from OPUCN	require OPUCN	objective data
	and thoroughly	assistance in	assessment.
	scrutinized, analyzed and	examining the extent	appears
	document to identify	of data required and	to be relying on
	highest risk and	agree on minimum	OPUCN input rather
	priorities	set to conduct asset	than doing what
		condition. Will NOT	they believe is
		mine data as this is	required and they
		extra.	will not do data
			mining.
d) kick off meeting	More to confirm and	Suggests meeting is	Thought
	agree on scope and	to obtain OPUCN	had the expertise
	deliverables to avoid	expert opinion?	and should be
	surprises		guiding OPUCN,
			otherwise Why do
			we need.
e) Use of OPUCN	Will utilize to help	Seems to be using	relying
resources	acquire data and	OPUCN staff for data	heavily on OPUCN
	perhaps to gain access	collection, opinions,	staff, which
	for inspections. Metsco	and guidelines to	"compromises"
	will conduct inspections	help formulate	objectivity of
	etc and prepare	condition assessment	assessment. Not
	objective condition		preferred
f) Assat Candition	assessment	Duett report for	
f) Asset Condition	Report with objective quantitative	Draft report for	approach to
Assessment Report	measurement units in	"limited" asset categories with	preparing report
	form of health indices	health index based	NOT acceptable
	based on data collected	on data provided by	NOT acceptable
	and site inspections.	OPUCN, interviews	
	Will then review report	with OPUCN and	
	with OPUCN to ensure	industry	
	any concerns with	expertise/experience.	
	plant/asset condition are	OPUCN to review	
	addressed	report and provide	
		comments which will	
		be incorporated to	
		produce final. (1	
		revision only)	

ASSET MANAGEMENT PLAN	METSCO		COMMENTS
a) Approach	Use the results of the Asset Condition Report and review plan for investments to mitigate asset risk. Asset mgmt Plan will then be developed and finalized by METSCO to meet OEB compliance/expectations for Cost of Service application	will meet with OPUCN to develop structure and table of contents. OPUCN to provide with corporate info, reliability stats, graphs, maps, diagrams etc for specific sections to complete Asset mgmt Plan report. to provide write up for certain sections and OPUCN will put all sections together for overall review to ensure consistency and compatibility with OEB expectations	approach not preferred. Relying too heavily on OPUCN. METSCO more in line with OPUCN requirements
b) scope TOTAL PRICE	Plan to cover budgetary estimates to implement report recommendations over 5-10 year investment period	Capital & maintenance investment buckets for the next 5 yrs	METSCO is providing more using their resource expertise and experience METSCO lowest bid
TOTALTMEL	\$37,500 plus HST	Asset Condition Asset Mgmt Plan	METSCO lowest blu

RECOMMENDATIONS:

Based on the above "Pros" and Price submission, Award Contract to METSCO

From:

Denise Flores

Sent:

October 15, 2010 5:19 PM

To:

Subject:

OPUCN Statement of Work

Attachments:

Asset Mgmt Plan - SOW Oct 2010.docx

Importance:

High

Hi:

Regarding our previous conversation and confirmation that you are interested in submitting quotations to

- conduct an Asset Condition Assessment
- prepare an associated asset management condition report
- prepare an Asset Management Plan,

I am pleased to submit the related Statement of Work.

Please note quotes are due no later than 12 noon, Wed Oct 27, 2010

Please feel free to contact me should you have any concerns or questions.

Regards,

Denise A. Flores, P. Eng.

Vice President, Engineering and Operations Oshawa PUC Networks Inc. 100 Simcoe Street South Oshawa, Ontario L1H 7M7

Bus: (905) 723-4623 ext 5315

From:

Sent:

October 23, 2010 8:08 AM

To:

Denise Flores

Cc: Subject:

IVIETSCO Proposar

Attachments:

Oshawa PUC Asset management proposal.pdf; OPUC Asset Management Proposal -

Appendix A.docx;

IEEE paper.pdf

Dear Ms. Flores:

In response to your recent regust for proposals, we are pleased to submit our attached proposal for your consideration. We trust our proposal is fully compliant with your needs and is based on achieving all of your objectives. However we are open to discussing possible alternatives to further reduce the costs, if you wish.

Please note I will be away on an overseas assignment in Brazil and Paraguay next week, arriving back on October 31, 2010.

We look forward to assist you with this assignment.

WETSCO INC.

Telephone: Email:

www.metsco.ca

From:

Denise Flores

Sent:

November 11, 2010 6:22 PM

To:

Subject:

Contract for Asset Condition Assessment Report and Asset Mgmt Plan



I am confirming that METSCO Inc has been awarded the contract to perform the following services as outlined in your submitted proposal and which meets Oshawa's PUC Statement of Work:

- conduct an Asset Condition Assessment
- prepare an associated asset management condition report
- prepare an Asset Management Plan,

As a reminder, the work starts immediately and the submission date for the above deliverables is Jan 31, 2011 or earlier.

I will proceed to provide you with a PO#.

Regards

Denise A. Flores, P. Eng.

Vice President, Engineering and Operations Oshawa PUC Networks Inc. 100 Simcoe Street South Oshawa, Ontario L1H 7M7

Bus: (905) 723-4623 ext 5315

From:

Denise Flores

Sent:

October 15, 2010 5:28 PM

To:

Subject: Attachments:

Oshawa PUCN - Statement of Work

Asset Mgmt Plan - SOW Oct 2010.docx

Importance:

High

Hi:

Regarding our previous conversation and confirmation that

is interested in submitting quotations to

- conduct an Asset Condition Assessment
- prepare an associated asset management condition report
- prepare an Asset Management Plan,

I am pleased to submit the related Statement of Work. You indicated that as an EDA member we may potentially receive discount pricing. Please confirm accordingly or indicate clearly in your submission if the quotes are discounted.

Hopefully you are the right person to send this to and if not please forward accordingly to that individual. Please note that the submission is time sensitive and is to be **no later than 12 noon, Wed Oct 27, 2010**.

Please feel free to contact me should you have any concerns or questions.

Regards,

Denise A. Flores, P. Eng.

Vice President, Engineering and Operations Oshawa PUC Networks Inc. 100 Simcoe Street South Oshawa, Ontario L1H 7M7

Bus: (905) 723-4623 ext 5315

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Sent:

To:

Denise Flores

Cc:

Subject:

Osnawa Proposal - Oct. 27-10.pdf

Attachments:

Good morning Denise,

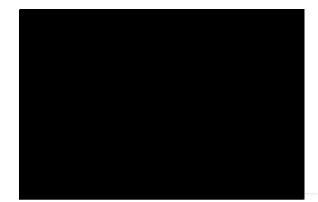
Please find attached our proposal in response to your Statement of Work on Asset Condition Assessment and Asset Management Plan, as promised ahead of October 29th deadline. Please let me know whether I should be sending a hard copy as well.

The price quoted is essentially the same as what was offered to USF members last year in spite of the fact that you have more assets that the standard list, so we have really sharpen our pencils to bring it down.

We find that the Risk Assessment part is really what sets us apart from others.

Please do not hesitate to call me if you have any questions at all and I look forward to meeting you in person in the near future.

Best Regards



From:

Denise Flores

Sent:

November 11, 2010 6:29 PM

To:

Subject:

Oshawa request for Asset condition assessment report & Asset Mgmt Plan



Thank you again for submitting

proposal/quote for the above as defined in our Statement of Work.

We reviewed all submissions from all interested parties and unfortunately I am confirming that selected.



We hope that will be future opportunities to do business together.

Regards,

Denise

Denise A. Flores, P. Eng.

Vice President, Engineering and Operations Oshawa PUC Networks Inc. 100 Simcoe Street South Oshawa, Ontario L1H 7M7

Bus: (905) 723-4623 ext 5315

From:

Denise Flores

Sent:

October 15, 2010 5:14 PM

To:

Subject:

Osnawa PUCN - Statement of Work

Attachments:

Asset Mgmt Plan - SOW Oct 2010.docx

Importance:

High

Hi

Regarding our previous conversation and confirmation that

is interested in submitting quotations to

- conduct an Asset Condition Assessment
- prepare an associated asset management condition report
- prepare an Asset Management Plan,

I am pleased to submit the related Statement of Work.

Please feel free to contact me should you have any concerns or questions.

Regards,

Denise A. Flores, P. Eng.

Vice President, Engineering and Operations Oshawa PUC Networks Inc. 100 Simcoe Street South Oshawa, Ontario L1H 7M7

Bus: (905) 723-4623 ext 5315

From:

Sent:

October 28, 2010 11:46 AM

To:

Denise Flores

Subject:

Oshawa PUCN - Statement of Work - Asset Management Plan

Hi Denise,

Reference is made to the request for quotation to provide Asset Condition Assessment Services, an Asset Condition Assessment Report and Asset Management Plan for your network.

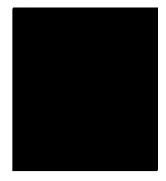
Upon further review of the tasks to be undertaken in the timeframe provided, we regret to inform you that will have to decline to bid on these works at this stage.



We would like to thank you for considering us for this venture and wish you all the best with the delivery of these works. We look forward to the opportunity to work with you in the future.

Should you wish to discuss the above, please feel free to contact me.

Yours Sincerely,



Appendix H

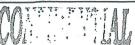
Project Costing & Award Samples

in response to

Board Staff Interrogatory #19



Tender Award – Vacuum Excavation



Background

As per the staff's request Purchasing issued a tender document for Vacuum Excavation as per the specifications supplied by the Overhead and Fleet Manager.

Tender # T09-04-VE closed on May 7, 2009. Five tenders were issued and three were received. Purchasing and Distribution opened the three (3) tenders for evaluation. The tenders were evaluated for compliance with the specifications and quotation submitted.

Discussion

Tender pricing:

Normal Hours	\$300.00/hr	\$230.00/hr	\$195.00/hr	No quote	No quote
After Hours	\$300.00/hr	\$250.00/hr	\$250.00/hr	No quote	No quote
Emergency	\$300.00/hr	\$250.00/hr	\$250.00/hr	No quote	No quote

Recommendation

ACCOMMUNICATION	
Proceed with awarding the Vacuu	Inc.
Report prepared by:	
Report approved by:	J.R. Wagg, Materials Manager
	D. Osborne, Overhead & Fleet Manager
Recommendation approved by:	
	A. Mahajan, CEO
_	
	, CFO
_	
	M. Turney, VP Operations & Engineering

Vacuum Excave	Vacuum	Excavation
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Tender Award – Vacuum Excavation - Addendum

will be set up on a registry to provide the vacuum excavation service as outlined in the tender document for the next three years. The low bidder will be called in when service is required. If unavailable to fulfill the service requirement the next vendor will be called to provide the required service. will be put on a one hundred eighty (180) day evaluation. Distribution will keep detail records of the services provided, any issues reported by staff and forward copies to Purchasing. The Materials Manager will retain these records for final review with the Executive. Report prepared by: Wagg Materials Manager Report approved by: D. Osborne, Overhead & Fleet Manager Recommendation approved by: A. Mahajan, CEQ , CFO M. Turney, VP Operations & Engineering

W.O. #C11-500 Project Name New UG Primary Serv.					
COMMERCIAL 3ph PAD 03/25/11					
5KV THREE PHASE DIP VERTICAL	0				
5KV THREE PHASE DIP TANGENT PH PAD-MOUNT TRANS (150 to 500)	1				
PH PAD-MOUNT TRANS (150 to 300)	0				
DESCRIPTION	STOCK #	QUANTITY	VALUE	STORES	TOTAL
RRESTER 10kV RISER POLE		0	\$51.87	\$0.00	\$0.00
CRANSFORMER BASE-6'X6' W/6" LID		1	\$1,568.56	\$313.71	\$1,882.27
Tx, BASE, FLOOR&LID (48"x78"x85") 750 -1		0	\$1,735.00	\$0.00	\$0.00
CONN SPLIT BOLT 2/0		2	\$22.29	\$8.92	\$53.49
OLT MACH 5/8"x12"		0	\$1.21	\$0.00	\$0.00
OLT SPACER 5/8"x24"		0	\$2.71	\$0.00	\$0.00
OLT MACH 5/8"x14"		0	\$1.38	\$0.00	\$0.00
TBREGLASS 3-PHASE BRACKET C/W HARDWARE		0	\$198.00	\$0.00	\$0.00
ABLE #2 CU KLPEJ-CN		250	\$12.02	\$350.00	\$3,356.04
ABLE 15KV #2 CU IN DUCT		0	\$16.08	\$0.00	\$0.00
ABLE 2/0CU SOLID BARE (FT)		0	\$2.56	\$0.00	\$0.00
ABLE 2/0 CU BARE		10	\$6.32	\$12.64	\$75.81
LAMP STIRRUP LARGE		0	\$26.24	\$0.00	\$0.00
LAMP HOT LINE		0	\$9.10	\$0.00	\$0.00
LIPS THROAT LARGE 3 1/4"		0	\$7.29	\$0.00	\$0.00
RIMPIT 2/0-2/0		2	\$6.46	\$2.58	\$15.50
/4" GROUND ROD CONNECTOR TO 2/0 WIRE		4	\$26.85	\$21.48	\$128.86
ONNECTOR TAP 556-1/0 STRAND(Y67)		0	\$22.04	\$0.00	\$0.00
ONN SQUEEZE #2-#2 (508, YHO-2)		0	\$0.61	\$0.00	\$0.00
CONNECTOR SQUEEZE 3/0AACSR-3/0 (505,YHD-6)		0	\$0.90	\$0.00	\$0.00
ONNECTOR SQUEEZE 3/0AACSR-#2 (503,YHD-5) DUCT 100mm OD (ft)		0	\$0.89	\$0.00	\$0.00
MLBOW L/B 15kV 200A #2		3	\$36.70	\$22.02	\$132.13
5kv Fused loadbreak elbow		0	\$475.00	\$0.00	\$0.00
ETER BOX c/w LOCK HANDLE		1	\$438.37	\$87.67	\$526.04
USELINK (20K)		0	\$2.94	\$0.00	\$0.00
5 amp fuselink		0	\$7.17	\$0.00	\$0.00
J-GUARD CABLE LARGE 3 1/4"x8'		0	\$43.51	\$0.00	\$0.00
OLDER NUMBER VERTICAL		0	\$3.55	\$0.00	\$0.00
/B BUSHING INSERT 15kV		0	\$36.13	\$21.68	\$130.07
NSUL 15kV RISER POLE		1	\$39.83 \$12.74	\$0.00	\$0.00 \$15.29
ADLOCK		0	\$12.74	\$0.00	\$0.00
ADLOCK JUGS COMPRESSION 500kCMIL		0	\$6.76	\$0.00	\$0.00
UG COMPRESSION #2 3/8" HOLE		0	\$4.45	\$0.00	\$0.00
UG COMPRESSION #4 3/8" HOLE		0	\$2.26	\$0.00	\$0.00
OULDING 1/2" PLASTIC 8'		0	\$0.24	\$0.00	\$0.00
ROUND ROD 3/4X10		4	\$14.55	\$11.64	\$69.85
CREW LAG 1/4"x3"		0	\$0.11	\$0.00	\$0.00
TRAP UGUARD LARGE 3 1/4"		0	\$1.21	\$0.00	\$0.00
WITCH CUTOUT 100A 15KV		0	\$79.04	\$0.00	\$0.00
AANDIT TAPE		0	\$83.67	\$0.00	\$0.00
HASING TAPE RED		1	\$4.40 \$4.36	\$2.50	\$6.90 \$6.86
HASING TAPE WHITE HASING TAPE BLUE		1	\$4.40	\$2.50	\$6.90
APE #37		1	\$1.46	\$2.50	\$3.96
ERMINATOR 15KV #2CU		0	\$62.42	\$0.00	30.00
000 KVA RAD PAD transformer 13300-600/			\$33,395.66	\$0.00	\$0.00
00 kVA RAD TRANS 600/347V		0	\$13,500.83	\$0.00	\$0.00
000 KVA transtormer 13800-600/347 PAD Lo		9.	\$13,079.64	\$0.00	\$0.00
50 kVA RAD PAD 13300/600/3477			\$26.356.01	\$0.00	\$0.00
50 KVA LOOP PAD transformer 13800-600/347			\$30,192.21	\$0.00	\$0.00
000 kVA RAD PAD TRANS 13800-208 120V		¥	\$13,335.03	\$350.00	\$13,536.03
300 KVA loop PAD transformer 13800-600/347		0	\$13,305.62	30.00	\$0.00
ASHER CURVED 2"x2" 13 15" HOLE		0	\$0.28	\$3.00	\$0.00
IRE #4CU 5kV TRANS DROP 7STR		U	54.01	\$0.00	50.00

AL MATERIAL		\$1,217.39	\$25,104.62
		•	

TAROUR BROWN D	"an unu	uoung T	momar	A /HDC	TOTAL
LABOUR REGULAR	#OF MEN	HOURS	HOURS	\$/HRS	TOTAL
SUBF'MAN LINEMEN LAB HRLY REG	1	40.00	40.00	\$41.03	\$3,036.22
LINEMEN HOURLY REGULAR	1	40.00	40.00	\$36.63	\$2,710.62
O/H EQUIP OPER LAB HOURLY REG				\$31.06	\$459.69
SUBFOREMAN FORESTER	1	0.00	8.00 0.00	\$34.38	\$0.00
FOR ESTER				\$31.24	\$0.00
SUBF'MAN PME UNDRGND HRLY REG	1	0.00	0.00	\$41.03	\$0.00
PME HOURLY REG	1	0.00			\$0.00
	1	0.00	0.00	\$36.63	\$0.00
SUBFOREMAN SERVICEMAN CABLE HOURLY REG	1	0.00	0.00	\$35.41	
	2	8.00	16.00	\$35.41	\$1,048.14
TOTAL REGULAR LABOUR	753 (c. e.)		104.00		\$7,254.66
LABOUR OVERTIME					
SUBF'MAN LINEMEN LAB HRLY OT	1	0.00	0.00	\$41.03	\$0.00
LINEMEN HOURLY OT	4	0.00	0.00	\$36.63	\$0.00
O/H EQUIP OPER LAB HOURLY OT	1	0.00	0.00	\$31.06	\$0.00
SUBFOREMAN FORESTER	1	0.00	0.00	\$34.38	\$0.00
FORESTER	1	0.00	0.00	\$31.24	\$0.00
SUBF'MAN PME UNDRGND HRLY OT	1	0.00	0.00	\$41.03	\$0.00
PME HOURLY OT	1	0.00	0.00	\$36.63	\$0.00
SUBFOREMAN SERVICEMAN	1	0.00	0.00	\$35.41	\$0.00
CABLE HOURLY OT	2	0.00	0.00	\$35.41	\$0.00
	2	0.00	0.00	735.41	\$0.00
TOTAL OVERTIME LABOUR			104.00		\$7,254.66
TOTAL LABOUR	304335		104.00		\$7,234.00
EQUIPMENT			HOURS	\$/HR	TOTAL
SINGLE BUCKET SERVICE VEHICLE			40.00	\$35.00	\$1,400.00
O/H DOUBLE BUCKET			0.00	\$35.00	\$0.00
DERRICK SERVICE VEHICLES			8.00	\$35.00	\$280.00
FORESTRY			0.00	\$0.00	\$0.00
U/G SINGLE BUCKET			8.00	\$35.00	\$280.00
U/G DIGGER DERRICK			0.00	\$35.00	\$0.00
PICKUP TRUCK SERVICE VEHICLES			0.00	\$10.00	\$0.00
DUMP TRUCK			4.00	\$35.00	\$140.00
TOTAL VEHICLES					\$2,100.00
CONSTRUCTION STORES	BCONTRACTED SERV	ICES	0.00	\$230.00	\$0.00
VACTORING CREW	BCONTRACTED SERV				
BACKHOE AND OPERATOR	BCONTRACTED SERV		4.00	\$65.00	\$260.00
TREE TRIMMING SERVICE	BOON I RACTED SERV	IOLO	0.00	\$85.00	\$0.00
DIRECTIONAL BORE	Chara.		1.00	\$3,000.00	\$3,000.00
TOTAL CONST. STORES					\$3,260.00
TOTAL SUB					\$37,719.29
CREDITS					\$0.00
NET U/G COST					\$37,719.29
ENG TECH HOURLY REGULAR					\$5,657.89
TOTAL SUB					\$43,377.18
TOTAL SUB					\$43,377.18