Lee County Board of County Commissioners **Agenda Item Summary**

Blue Sheet No. 20060695-UTL

1. Action Requested/Purpose:

1) Authorize the Chairwoman, on behalf of the BOCC, to approve Change Order No. 1 to the Pinewoods Water Treatment Plant Expansion, Contract No. 2974 with Harn R/O Systems for the changes in construction scope, including design fees, as they relate to project infrastructure, increasing the Guaranteed Maximum Price (GMP) by \$1,244,426.00, changing the total contract amount to \$9,742,530.00; and, 2) Approve budget transfer from the Water Connection Fees Reserve for \$1,300,000 and amend FY05/06-09/10 CIP accordingly.

2. What Action Accomplishes:

Keeping the per million gallon price well below market standard, Change Order No. 1: (1) Provides finished-design (based on system demands) high-service pumps, transfer pumps, and associated piping and valving. (2) Provides R/O building based on finished-design criteria and exceeding minimum wind load requirements, for an emergency gathering location for essential staff. (3) Provides building code compliant Sodium Hypochlorite shelter with retaining wall. (4) Provides the increased yard piping scope, not originally included in the GMP. (5) Accounts for unforeseen cost escalations.

Approva	al					
4. Dep	artmental Category: 10	(CIOF		5. Meeting Date:	6-20-2006
6. Age	nda:	7. Req	uirement/Purpo	se (specify)	8. Request Initiat	ed:
X	Consent		Statute		Commissioner	
	Administrative		Ordinance		Department /	Public Works
	Appeals		Admin. Code		Division	Utilities
	Public	X	Other	Approval	By: White I fun	ay For SELON VELLE FR
					Sergio 1. Velez, 1	P.E., Acting Director
0 Racl	caround:					

The original quantities for this design build contract were based on a limited design, as is typical of this type of contract. The design-builder may then expedite construction, as was and still is very necessary for this plant expansion due to the extraordinary growth in Lee County. In-between the time of the proposal and present day, the design has changed, based on the system and a full analysis of the existing plant. The attached additional background information and justification has been compiled by the design-builder, their sub-contractors and suppliers, and Lee County Utilities staff. Funds will be available in Account No. 20715548712.506540.

10. Review for Scheduling County Manager Department Purchasing Human County Budget Services Other / P.W. Director Director Res. or Contracts Attorney afm Analyst Grants N/A ปี. Lavender C. Logan J. Lävender S. Coovert Date: 6/6 Date: Date: Date: Date: 6 6 26 11. **Commission Action:** Rec. by CoAtty Approved RECEIVED BY COUNTY ADMIN: Deferred 10:20 Denied Other COUNTY ADMIN V FORWARDLD TO 100

MEMORANDUM FROM PUBLIC WORKS UTILITIES

	DATE:	JUNE 8, 2006
MOLLY SCHWEERS PUBLIC RESOURCES	FROM:	SUE GULLED ADM SPEC 47 -8181
ECT: DOCS TO CATCH-UP W	TTH B/S 200606	95-UTL
remove the unexecuted copy in the quire signatures.	ie package and r	replace it with the attached, which
you for your assistance. Please call	if you have any q	uestions.
ments		
File		
	PUBLIC RESOURCES ECT: DOCS TO CATCH-UP Wed please find the executed four so that need to "catch-up" with Blee 20th. remove the unexecuted copy in the quire signatures. you for your assistance. Please call ments	MOLLY SCHWEERS PUBLIC RESOURCES CCT: DOCS TO CATCH-UP WITH B/S 200606 ed please find the executed four originals of "C s" that need to "catch-up" with Blue Sheet No. 200 e 20th. remove the unexecuted copy in the package and require signatures. you for your assistance. Please call if you have any quenches.

No.: 1

(A Change Order requires approval by the Department Director for expenditures under \$50,000, approval by the County Manger for expenditures between \$50,000.01 and \$100,000, or approval by the Board of County Commissioners for expenditures over \$100,000).

CONTRACT/PROJECT NAME: Pine	woods WTP Expansion			
CONTRACTOR: _Harn R/O Systems,	PROJECT NO.: _7173			
CONTRACT NO.: 2974		BID NO.:		
CHANGE REQUESTED BY: Ham R/C	O Systems, Inc.	DATE OF REQUEST: 5-8-2006		
Upon the completion and execution of authorized to and shall proceed to make (If you need space other than what has been provided, please	e the following changes	both parties to the Contract the Contractor is in the Contract Documents:		
Description: See attached list of cha	anges			
Purpose of Change Order: Design of	hanges, o <u>wner</u> or engin	eer directed		
Attachments: (List documents supporti	ng change) <u>Bid Item li</u>	st and justification		
CHANGE IN CONTRACT PR Original Contract Price \$8,498,104.00		CHANGE IN CONTRACT TIME: al Contract Time Calendar Days		
Previous Change Order No. $\underline{0}$ to No. $\underline{0}$ \$\overline{0}\$	Net Ch <u>0</u>	ange from previous Change Orders Calendar Days		
Contract Price prior to this Change Ord \$8,498,104.00	er Contra <u>554</u>	ct Time prior to this Change Order Calendar Days		
Net Increase (Decrease) of this Change \$1,244,426.00	e Order Net Inc <u>470</u>	Increase (Decrease) of this Change Order Calendar Days		
Contract Price will all approved Change \$9,742,530.00	Orders Contra 1024	ct Time with all approved Change Orders Calendar Days		
		n by the CONTRACTOR constitutes an accord and or all costs arising out of, or incidental to, the above		
RECOMMENDED:	ACCEPTED	COUNTY APPROVAL:		
By: 5. 106	By: Jama Ton 12	By:		
Consultant (if applicable) Date	Contractor	Department Director (Under \$50,000)		
By: Xambh 6766 Department Director Date	Date Accepted: 6-/	Date Approved:		
Charley 7 Ken 4/1/06		Ву:		
Contracts Management	(CORPORATE SEAL)	County Administration (Under \$100,000		
APPROVED:		Date Approved:		
County Attorney's Office Date		Ву:		
		Chairwoman Board of County Commissioners (Over \$100,000) Date Approved:		

No.: 1

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CONTRACTOR: Ham R/O Systems,		PROJECT NO.: 7173		
CONTRACT NO.: 2974			BID NO.:	
CHANGE REQUESTED BY: Ham R/C	Systems, Inc.		DATE OF REQUEST: 5-8-2006	
Upon the completion and execution of authorized to and shall proceed to make (If you need space other than what has been provided, please	e the following c	•	parties to the Contract the Contractor is Contract Documents:	
Description: See attached list of cha	inges			
Purpose of Change Order: Design of	hanges, owner o	or engine <u>er di</u>	rected	
Attachments: (List documents supporti	ng change) <u>Bid</u>	Item list and	justification	
CHANGE IN CONTRACT PR Original Contract Price \$8,498,104.00	RICE:	CI Original Cont 554	HANGE IN CONTRACT TIME: tract Time Calendar Days	
Previous Change Order No. $\underline{0}$ to No. $\underline{0}$ \$\overline{0}\$		Net Change to 0	from previous Change Orders Calendar Days	
Contract Price prior to this Change Ord \$8,498,104.00	er	Contract Tim 554	e prior to this Change Order Calendar Days	
Net Increase (Decrease) of this Change \$1,244,426.00	e Order	Net Increase 470	(Decrease) of this Change Order Calendar Days	
Contract Price will all approved Change \$9,742,530.00	Orders	Contract Time 1024	e with all approved Change Orders Calendar Days	
			ne CONTRACTOR constitutes an accord and osts arising out of, or incidental to, the above	
RECOMMENDED	ACCEPTED	1	COUNTY APPROVAL:	
By: 6706 Consultant (if applicable) Date	By: () () () () () () () () () (Vim Jane	By: Department Director (Under \$50,000)	
By: Stundy 4-7.66 Department Director Date	Date Accepted:	6-1-66	Date Approved:	
Contracts Management	(CORPORATE S	EAL)	By: County Administration (Under \$100,000	
APPROVED:			Date Approved:	
County Attomey's Office Date			Ву:	
	``		Chairwoman Board of County Commissioners (Over \$100,000) Date Approved:	

No.: 1 (A Change Order requires approval by the Department Director for expenditures under \$50,000, approval by the County Manger for expenditures between \$50,000.01 and \$100,000, or approval by the Board of County Commissioners for expenditures over \$100,000). CONTRACT/PROJECT NAME: Pinewoods WTP Expansion CONTRACTOR: Ham R/O Systems, Inc. PROJECT NO.: 7173 CONTRACT NO.: 2974 BID NO.: DATE OF REQUEST: 5-8-2006 CHANGE REQUESTED BY: Ham R/O Systems, Inc. Upon the completion and execution of this Change Order by both parties to the Contract the Contractor is authorized to and shall proceed to make the following changes in the Contract Documents: (If you need space other than what has been provided, please attach additional sheets.) Description: See attached list of changes Purpose of Change Order: Design changes, owner or engineer directed Attachments: (List documents supporting change) Bid Item list and justification CHANGE IN CONTRACT TIME: CHANGE IN CONTRACT PRICE: Original Contract Price Original Contract Time \$8,498,104.00 554 Calendar Days Previous Change Order No. 0 to No. 0 Net Change from previous Change Orders Calendar Davs 0 Contract Price prior to this Change Order Contract Time prior to this Change Order \$8,498,104,00 554 Calendar Davs Net Increase (Decrease) of this Change Order Net Increase (Decrease) of this Change Order \$1,244,426,00 Calendar Days 470 Contract Price will all approved Change Orders Contract Time with all approved Change Orders \$9.742.530.00 1024 Calendar Days It is understood and agreed that the acceptance of this modification by the CONTRACTOR constitutes an accord and satisfaction, and represents payment in full (both time and money) for all costs arising out of, or incidental to, the above mentioned change. RECOMMENDED: **ACCEPTED** COUNTY APPROVAL: Consultant (if applicable) Department Director (Under \$50,000) Contractor 6700 Taurulia Date Accepted: Date Approved: _____ Department Director Date (CORPORATE SEAL) County Administration (Under \$100,000 Contracts Manageme APPROVED: Date Approved: County Attorney's Office Date

Chairwoman

Board of County Commissioners (Over \$100,000)

Date Approved:

No.: 1

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CONTRACT/PROJECT NAME: Pines	woods WTP Exp	ansion		
CONTRACTOR: Ham R/O Systems,	Inc.		PROJECT NO.: _7173	
CONTRACT NO.: 2974			BID NO.:	
CHANGE REQUESTED BY: Harn R/C	Systems, Inc.		DATE OF REQUEST: 5-8-2006	
Upon the completion and execution o authorized to and shall proceed to mak (If you need space other than what has been provided, please	e the following o	•	parties to the Contract the Contractor is Contract Documents:	
Description: See attached list of cha	nges			
Purpose of Change Order: Design c	hanges, owner o	or engineer di	rected	
Attachments: (List documents supporting	ng change) Bio	I Item list and	justification	
CHANGE IN CONTRACT PR Original Contract Price \$8,498,104.00	ICE:	C Original Con <u>554</u>	HANGE IN CONTRACT TIME: tract Time Calendar Days	
Previous Change Order No. $\underline{0}$ to No. $\underline{0}$ \$ $\underline{0}$		Net Change 0	from previous Change Orders Calendar Days	
Contract Price prior to this Change Ord \$8,498,104.00	er	Contract Time prior to this Change Order 554 Calendar Days		
Net Increase (Decrease) of this Change \$1,244,426.00	e Order	Net Increase 470	e (Decrease) of this Change Order Calendar Days	
Contract Price will all approved Change \$9,742,530.00	Orders	Contract Tim 1024	ne with all approved Change Orders Calendar Days	
			he CONTRACTOR constitutes an accord and costs arising out of, or incidental to, the above	
RECOMMENDED:	ACCEPTED	1 1	COUNTY APPROVAL:	
By: 6 7 0 6 Consultant (if applicable) Date	By: Jan 1 71.	- much	By: Department Director (Under \$50,000)	
By: Samuel 47.04 Department Director Date	Date Accepted:	6-1-06	Date Approved:	
THE	(CORPORATE S	TAL)	By: County Administration (Under \$100,000	
Contracts Management APPROVED:	(CORPORATE S	EAL)	Date Approved:	
County Attorney's Office Date			By: Chairwoman	
		•	Board of County Commissioners (Over \$100,000) Date Approved:	

	oard of Cou enda Item S	• ,	issioner	S Blue S	heet No.	20060695-UTL	
1. Action Requested/Purpose: 1) Authorize the Chairwoman, on behalf of the BOCC, to approve Change Order No. 1 to the Pinewoods Water Treatment Plant Expansion, Contract No. 2974 with Harn R/O Systems for the changes in construction scope, including design fees, as they relate to project infrastructure, increasing the Guaranteed Maximum Price (GMP) by \$1,244,426.00, changing the total contract amount to \$9,742,530.00; and, 2) Approve budget transfer from the Water Connection Fees Reserve for \$1,300,000 and amend FY05/06-09/10 CIP accordingly.							
 What Action Accomplishes: Keeping the per million gallon price well below market standard, Change Order No. 1: (1) Provides finished-design (based on system demands) high-service pumps, transfer pumps, and associated piping and valving. (2) Provides R/O building based on finished-design criteria and exceeding minimum wind load requirements, for an emergency gathering location for essential staff. (3) Provides building code compliant Sodium Hypochlorite shelter with retaining wall. (4) Provides the increased yard piping scope, not originally included in the GMP. (5) Accounts for unforeseen cost escalations. Management Recommendation: 							
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			3, 14,	reeting Da			
7. Requirer	7. Requirement/Purpose (specify)			8. Request Initiated:			
Sta	Statute Comm			missioner	nissioner		
				- / l /			
					Utilities		
X Otl	ner	,					
			Sei	rgio I. Velo	ez, P. <u>E.,</u> A	Acting Director	
9. Background: The original quantities for this design build contract were based on a limited design, as is typical of this type of contract. The design-builder may then expedite construction, as was and still is very necessary for this plant expansion due to the extraordinary growth in Lee County. In-between the time of the proposal and present day, the design has changed, based on the system and a full analysis of the existing plant. The attached additional background information and justification has been compiled by the design-builder, their sub-contractors and suppliers, and Lee County Utilities staff. Funds will be available in Account No. 20715548712.506540.							
	Other County Attorney			Budget Services County Mana / P.W. Direct			
B. Dearborn Date: 6	S. Coovert	Analyst	Risk	Grants	Mgr.	Januar S. Lavender	
	ntract No. 2974 who pect infrastructurum to \$9,742,530 and FY05/06-09/oes: orice well below to reservice pumps, an criteria and extravides building and scope, not originally and the construction of the con	ntract No. 2974 with Harn R/C oject infrastructure, increasing unt to \$9,742,530.00; and, 2) A end FY05/06-09/10 CIP accord es: orice well below market standa n-service pumps, transfer pump gn criteria and exceeding mining rovides building code compliant ng scope, not originally include Statute	ntract No. 2974 with Harn R/O Systems for spect infrastructure, increasing the Guarant and to \$9,742,530.00; and, 2) Approve but and FY05/06-09/10 CIP accordingly. Ses: Orice well below market standard, Change in-service pumps, transfer pumps, and asso in criteria and exceeding minimum wind I rovides building code compliant Sodium ing scope, not originally included in the Gillation: 10 - Utilities	ntract No. 2974 with Harn R/O Systems for the chargect infrastructure, increasing the Guaranteed Maxunt to \$9,742,530.00; and, 2) Approve budget transend FY05/06-09/10 CIP accordingly. Ses: Orice well below market standard, Change Order Non-service pumps, transfer pumps, and associated pign criteria and exceeding minimum wind load require revides building code compliant Sodium Hypochlang scope, not originally included in the GMP. (5) Attion: The Requirement/Purpose (specify) The Requirement/Purpose (specify) The Admin. Code Admin. Code Admin. Code Approval By: Selection build contract were based on a limited design bedite construction, as was and still is very necessarity. In-between the time of the proposal and presently in the design-builder, their sub-contractors and support the design-builder, their sub-contractors and support to the contractors and the contractors are contractors.	ntract No. 2974 with Harn R/O Systems for the changes in conject infrastructure, increasing the Guaranteed Maximum Pricunt to \$9,742,530.00; and, 2) Approve budget transfer from the end FY05/06-09/10 CIP accordingly. Ses: Orice well below market standard, Change Order No. 1: (1) Prinservice pumps, transfer pumps, and associated piping and vigoriteria and exceeding minimum wind load requirements, for ovides building code compliant Sodium Hypochlorite sheltering scope, not originally included in the GMP. (5) Accounts to the state of the state of the proposal and present day, the state of the proposal and present day, the state of the existing plant. The attached additional backgroup the design-builder, their sub-contractors and suppliers, and and No. 20715548712.506540. The state of the proposal and present day, the state of the proposal and present day, the state of the existing plant. The attached additional backgroup the design-builder, their sub-contractors and suppliers, and and No. 20715548712.506540.	ntract No. 2974 with Harn R/O Systems for the changes in construction opect infrastructure, increasing the Guaranteed Maximum Price (GMP) is unt to \$9,742,530.00; and, 2) Approve budget transfer from the Water Cend FY05/06-09/10 CIP accordingly. Ses: Orice well below market standard, Change Order No. 1: (1) Provides fin an exercice pumps, transfer pumps, and associated piping and valving. (2 gractical and exceeding minimum wind load requirements, for an emerovides building code compliant Sodium Hypochlorite shelter with retaing scope, not originally included in the GMP. (5) Accounts for unforcestation: Ordinance	

Approved
Deferred
Denied
Other



(A Change Order requires approval by the Dep)
Manger for expenditures between \$50,000.01	ä
expenditures over \$100,000).	

CONTRACT/PROJECT NAME: Pinewood
CONTRACTOR: Harn R/O Systems, Inc.
CONTRACT NO.: 2974
CHANGE REQUESTED BY: Harn R/O Sy

Upon the completion and execution of th authorized to and shall proceed to make the (If you need space other than what has been provided, please attact

Description: See attached list of change
Purpose of Change Order: Design char
Attachments: (List documents supporting of

CHANGE IN CONTRACT PRICE
Original Contract Price

Original Contract Price \$8,498,104.00

Previous Change Order No. $\underline{0}$ to No. $\underline{0}$ \$0

Contract Price prior to this Change Order \$8,498,104.00

Net Increase (Decrease) of this Change Cruei \$1,244,426.00

Contract Price will all approved Change Orders \$9,742,530.00

PLEASE NOTE THE
ORIGINAL
DOCUMENT WILL BE
FORTHCOMING TO
PUBLIC RESOURCES
ASAP, TO CATCH UP
WITH THE BLUE
SHEET (B/S 20060695)

SUE GULLEDGE UTILITIES 479-8181

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<u>470</u>	Calendar Days		
Contract 7	Time with all approved	Change O	rders
994	Calendar Days		

It is understood and agreed that the acceptance of this modification by the CONTRACTOR constitutes an accord and satisfaction, and represents payment in full (both time and money) for all costs arising out of, or incidental to, the above mentioned change.

RECOMMENDED:		ACCEPTED	COUNTY APPROVAL:
Ву:			By: 4 Disease (11 des 650 000)
Consultant (if applicable)	Date	Contractor	Department Director (Under \$50,000)
Ву:		Date Accepted:	Date Approved:
Department Director	Date		By:
Contracts Management		(CORPORATE SEAL)	County Administration (Under \$100,000
APPROVED:			Date Approved:
County Attorney's Office	Date		By:
			Board of County Commissioners
			(Over \$100,000)
			Date Approved:

REQUEST FOR TRANSFER OF FUNDS

FUND NAME:	LCU Capital Improvement	ts	DATE: _	06/06/06	BATCH NO.		
FISCAL YEAR:	05/06FU	IND#: 49730	DOC TYPE: _	YB	LEDGER TYPE:		ВА
TO:	Lee County U	tilities		CI	P Budget		
10.	(DIVISION NA				GRAM NAME)		
	NOTE: PLEASE LIST THE FUND #-DEPT/DIV #-PRO (EXAMPLE: BB5120100°	OGRAM #-OBJECT C					
	ACCOUNT NUMBER			OBJECT NAME			DEBIT
	20715548712.506540		Pinewoods WT	P Deep Injection V	Veli		1,300,000
					TOTAL TO:	\$	1,300,000
FROM:	Lee County Ut				P Budget		
	(DIVISION NA	AME)		(PROG	RAM NAME)		
	ACCOUNT NU	MBER		OBJECT NAME			CREDIT
	GC5890148712.509910		Reserve for Co				1,300,000
EXPLANATION:	0	<i>(</i>	_		TOTAL FROM:	\$	1,300,000
X.J.	4	6 706	8	Jamel	L	6.9	7.06
DIVISIO	N DIRECTOR SIGNATURE	E DATE	DEP#R	MENT DIRECTOR	R SIGNATURE		DATE
DBS:	APPROVAL /	DENIAL	Min	K.Wo		6	8-06
			OPERA	ATIONS ANALYST	SIGNATURE		DATE
	APPROVAL	DENIAL	BUDGET OF	PERATIONS MANA	AGER SIGNATURE		DATE
CO. ADMIN.:	APPROVAL	DENIAL					
			(CO. ADMIN. SIGNA	ATURE		DATE
BCC APPROVAL	DATE			BCC CHAIR	MAN SIGNATURE		
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BA NO.	AU	TH CODE:		TRANS DAT	E		EV. 05/93

	`	SHANGE ONDER		No.: 1
(A Change Order requires approval by Manger for expenditures between \$50,0 expenditures over \$100,000).				County s for
CONTRACT/PROJECT NAME: _P	inewoo	PLEASE N	NOTE THE	
CONTRACTOR: Harn R/O System	ms, Inc.		SINAL	
CONTRACT NO.: 2974		DOCUMENT		
CHANGE REQUESTED BY: Harn	R/O S	FORTHCOM		16
Upon the completion and execution	n of th	PUBLIC RES		ontractor is
Upon the completion and executio authorized to and shall proceed to n (If you need space other than what has been provided, p.	nake th	ASAP, TO CA		THE ACTOR IS
Description: See attached list of	change	WITH THE E	BLUE	
Purpose of Change Order: Design	gn cha	SHEET (B/S 2	20060695)	
Attachments: (List documents supp	orting	`	,	
CHANGE IN CONTRACT Original Contract Price \$8,498,104.00	PRIC	SUE GULLEI UTILITIES	DGE	
Previous Change Order No. <u>0</u> to No \$ <u>0</u>	. <u>0</u>	479-8181		
Contract Price prior to this Change (\$8,498,104.00	Order			
Net Increase (Decrease) of this Cha \$1,244,426.00	inge Order	470 (Calendar Days	ər
Contract Price will all approved Cha \$9,742,530.00	nge Orders		with all approved Chan Calendar Days	ge Orders
It is understood and agreed that the a satisfaction, and represents payment in mentioned change.				
RECOMMENDED:	ACCEP	PTED	COUNTY APPROV	AL:
By: Consultant (if applicable) Date	By: Contrac	etor	By: Department Directo	r (Under \$50,000)
Ву:	Date A	ccepted:	Date Approved:	
Department Director Date			By:	
Contracts Management	(CORP	ORATE SEAL)	County Administration	n (Under \$100,000
APPROVED:			Date Approved:	
County Attorney's Office Date	_		Ву:	

Chairwoman

Date Approved:

Board of County Commissioners (Over \$100,000)

PROJECT: LEE COUNTY PINEWOODS CONTRACT DATE: 12/27/2004

OWNER: LEE COUNTY UTILITY DEPT. 1500 Monroe Street Fort Myers, FL 33901 CONTACT: Kim P. Hoskins, PE

CONTRACTOR: HARN R/O SYSTEMS, INC. 205 Seaboard Ave Venice. FL 34285

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	CONTACT: JULIA NEMETH-HARN. PE
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				REVISED N	WORK COMPLETED
ITEM		SCHEDULED	CHANGE ORDER	R CONTRACT	TO DATE
NO.	DESCRIPTION OF WORK	VALUE	#1	AMOUNT	4/30/2006
	NF Plant Retrofit				
Α.	Mobilization/Demobilization	\$ 15,000.00		\$15,000.00	\$ 15,000.00
В	General Conditions	\$ 20,000.00			\$ 20,000.00
	Engineering & Permitting	\$ 30,000.00			\$ 30,000.00
٥.	R/O Modifications	\$ 395,678.00			\$ 395,678.00
ய	Installation & Start-up	\$ 25,000.00			\$ 25,000.00
	R/O Plant			\$0.00	
Œ.	General Conditions	\$ 420,000.00		\$420,000.00	\$ 264,600.00
G	Engineering & Permitting	\$ 870,000.00	\$ 25,000.00	\$895,000.00	
ť	Mobilization/Demobilization	\$ 225,000.00	<u> </u>		
Ι.	R/O Building	\$ 1,166,000.00	\$ 264,234.00	\$1,430,234.00	\$ 641,300.00
-	R/O Equipment & Chemical Mods.	\$ 2,074,649.00) \$	\$2,046,649.00	\$ 373,436.00
'n,	HSP/HF Storage & Feed Building	\$ 280,000.00		\$361,186.00	· •
تــ	High Service Pumps & Piping		-	\$134,800.00	- -
	Transfer Pump Clearwell	\$ 180,000.00			*
	Transfer Pumps & Piping	\$ 106,000.00	\$ 51,089.00		\$
	Degasifiers & Scrubbers	\$ 430,000.00		\$430,000.00	\$
۵.	Sodium Hypochlorite System	\$ 86,000.00	\$ 71,665.00		\$
Ö	Yard Piping	\$ 130,000.00	\$ 702,022.00	\$832,022.00	\$ 2,600,00
Ά.	Control System	\$ 185,000.00		\$185,000.00	
S.	Start-up and Testing	\$ 125,000.00		\$125,000.00	- \$
Τ.	1 MG Ground Storage Tank	\$ 625,000.00		\$625,000.00	\$ 612,500.00
J.	1500 KW Emergency Generator	\$ 580,105.00		\$580,105.00	- \$
۸.	Delete Sand Separators	- \$	(112,756.00)) -\$112,756.00	
W.	Cost Escalations	\$	\$ 180,186.00		
×	Cont. Trans. For Service Painting	\$ 230,000.00			\$ 230,000.00
γ.	Pending Cont. Trans. CT Basin	\$ 62,633.00		\$62,633.00	
Z.	Remaining Contingency	\$ 112,039.00		\$112,039.00	, ,
	TOTAL CONTRACT	\$ 8,498,104.00	\$ 1,244,426.00	\$9,742,530.00	\$ 3,599,214.00

Lee County Utilities

Pinewoods Water Treatment Plant Expansion

Design-Builder: Harn R/O Systems, Inc.

Change Order #1: Itemized with Associated Costs and Justification

G.	Engineering & Permitting	\$25,000.00	Increases scope for high service pump sizing, affecting hydraulic, structural and electrical design.
I.	R/O Building	\$264,234.00	Increases size by 920 square feet, increases wind load design, insulates roof and wall sections, accounts for cost escalation of materials.
J.	R/O Equipment & Chemical Modifications	\$(28,000.00)	No need for caustic bulk tank.
K.	HSP/HF Storage & Feed Building	\$81,186.00	Moves high service pumps to outside, foundation/slab will accommodate engineered roof structure in future if necessary, accounts for cost escalation of materials.
L.	High Service Pumps & Piping	\$9,800.00	System requires design change: increases pump and motor size.
N.	Transfer Pumps & Piping	\$51,089.00	System requires design change: increases pump and motor size, increases pipe size.
P.	Sodium Hypochlorite System	\$71,665.00	Increases structure size by 180 square feet, increases from "pole barn" to engineered structure with retaining wall.
Q.	Yard Piping	\$702,022.00	Pipe to and from storage tank, including valving, slabs, injection assembly, meter assembly, was not originally included. Based on market pipe prices and original estimate, oversight is legitimate omission due to early stage of plans (less than 10%) for this design build project.
V.	Delete Sand Separators	\$(112,756.00)	Not necessary, based on raw water quality. Will leave stub-out if needed in future.
W.	Cost Escalations	\$180,186.00	Original quotes and current quotes provides justification.

Total:

\$1,244,426.00

Lee County Pinewoods Water Treatment Plant Contract #2974

Harn R/O Systems

May 22, 2006

Cost Breakdown/Comparison

Based on proposed final pricing

Existing Pinewoods NF Plant Retrofit Project

(1.8)

Capacity increased from 2.1 MGD to 2.3 MGD

Operation and Maintenance Savings Realized from System Improvements:

- Eliminated iron sequestrant estimated annual savings \$14,000 per year
- Reduced energy consumption estimated annual savings \$70,000 per year
- Reduced maintenance, cleaning frequency, increased membrane life estimated annual savings \$30,000 or more per year

NF Plant Cost -- \$485,678

New Pinewoods 3.0 MGD Reverse Osmosis Plant

Engineering and Permitting \$895,000 (\$0.30/gallon, and less than 10% of the total contract value)

R/O Process Equipment, Controls and Building \$3,661,889 (\$1.22/gallon)

Other Treatment Components \$4,469,963 includes degasifiers, scrubber, clearwell, transfer pumps, finished water storage, and high service pumping — all designed for total plant capacity of 5.3 MGD (\$0.84/gallon)

R/O Plant Cost -- \$9,026,852 Concentrate Tank Painting -- \$230,000 (not originally part of scope)

Total Project Cost, including proposed Change Order – \$9,742,530 (\$1.84/gallon)

Industry Standard ranges from \$3.00 to \$6.00/gallon

Table 4-3 Middle Floridan Aquifer RO Capital Cost Estimates (3.0 MGD, 85% Recovery, with acid)

					_
					Compared to Purewood
	1	LS	\$2,160,000	\$2,160,000	
	1	LS	\$470,000	\$470,000	1
	1	LS	\$100,000	\$100,000	
	5400	SF	\$200	\$1,080,000	104 SF
	2.3	MGD	\$790,000	\$1,817,000 = 1,21919al	\$ 0.74/gal
	1	LS	\$200,000	\$200,000	1
	1	LS	\$50,000	\$50,000	
	1	LS	\$120,000	\$120,000	<u> </u>
	1	LS	\$130,000	\$130,000	
	1	LS	\$165,000	\$165,000	
	1	LS	\$130,000	\$130,000	
	1	LS	\$280,000	\$280,000	
	1	LS	\$200,000	\$200,000	1
	1	LS	\$180,000	\$180,000	
	1	LS	\$255,000	\$255,000	
	1	LS	\$650,000	\$650,000	
	1	LS	\$195,000	\$195,000	
	1	LS	\$700,000	\$700,000	
	1	LS	\$640,000	\$640,000	
				\$9,540,000	
				\$1,440,000	
				\$10,980,000	
				\$2,196,000	* 895,000
				\$13,176,000	# 4.40/gas
					_

⁽a) Three Middle Floridan Wells (one redundant). Able to be powered by portable generators.

Membrane technology expanding the potential for new water supply development

December 1998

U.S. Water News Online

MIAMI — The crisis in drinking water supplies has never been the lack of availability of water — it has been the lack of potable water that could be economically treated to meet drinking water standards. Up until recent history, drinkable water sources have been plentiful enough to meet the demands that the public has placed on them. Now, however, with population trends having shifted to the South, Southwest and West, the demand for drinking water has begun to exceed the potable water supplies.

By analogy, the existing drinking water sources have been the fruit at the bottom of the tree - easy pickings. That bottom hanging fruit has now been picked clean, and communities are going to have to work harder to pick the fruit from the top of the tree, i.e. turning non-potable water into alternative drinking water sources.

To illustrate the problem, one can look to the water woes of Martin County, Florida, on the southeast coast of Florida. Historically, the water utilities within Martin County have drawn their fresh water supply from an aquifer just below ground level. This water was fresh enough to require mere chlorination before consumption by the public. As the population of Martin County has grown, however, this surficial aquifer has reached its withdrawal capacity. Without an economically viable alternative water supply, growth in Martin County would grind to a halt.

To solve their problem of finding an alternative water supply, utilities in Martin County and communities across the nation have turned to membrane technologies – filtering out impurities in water by forcing water under pressure through fine membranes which act as filters to produce fresh drinking water. In Martin County alone, one membrane plant has already been built and one is in the permitting stage with completion due in less than three years.

Membrane technology for drinking water production is not new. It has been around since the 1960's. What is new today is a drastic reduction in the costs to construct and operate membrane water treatment facilities. This revolution in cost reduction for membrane systems has opened alternative sources of drinking water to communities throughout the nation that until now had no practical role to play in the drinking water mix.

A quick primer for the membrane uninitiated. Membranes are constructed so that water molecules readily pass through the membrane while larger impure molecules will not. These larger molecules are what have kept alternative sources of drinking water inaccessible. Prime among these larger molecules which make water undrinkable are salt, calcium, phosphorus, nitrate, and radium. Membranes can now be constructed to remove virtually all dissolved soids and impurities from water or to remove specific impurities that render a water source undrinkable. This versatility allows almost any source of water to be used as an alternative drinking water source.

In Martin County, the main impurity at issue was salt. Right below the freshwater surface aquifer in Martin County is a deep aquifer with high concentrations of salt. This salty aquifer would provide enough water for expansion of Martin County, if it could be cost-effectively mined.

The present level of membrane technology effectively removed the technical feasibility barrier from using alternative water sources for drinking water. All that was left were the economic considerations —

initial capital costs to construct the facility, and continuing operating and maintenance costs for the facility once constructed.

As to the first consideration, membrane capital costs have been almost halved in the last ten years. Ten years ago, membranes may have lasted only about 3 years before requiring replacement. Now, their life expectancy is at least 5 years, and probably will last 7 to 8 years. As experience in operations has been gained and advances in technology have been introduced, the scope and cost of the equipment needed to efficiently treat water has dropped fast.

Recent membrane facilities constructed in the United States have been built at a price of \$3.00 per gallon for plant sizes ranging from 2 to 10 million gallons per day (mgd). This cost varies depending on the location of the source of water, the level of effort to bring the water to the treatment facilities, and the cost of disposing of the brine water created as a by- product of the membrane process. This provides a basic benchmark to compare membrane facilities with conventional treatment facilities which cost roughly \$2.25 per gallon in the same locales.

On the operating side, the largest component of cost in operating membrane facilities has been and remains the cost of energy necessary to drive the water through the membranes. Here again, significant reduction in overall energy requirements have been achieved in the last ten years. As an example, the town of Jupiter, Florida operates a membrane treatment facility using brackish water withdrawn from an underground aquifer. When its plant was designed in 1986, it operated at a pressure of 305 psi. The town recently completed an expansion of this facility with the latest membrane technology and operates now at a reduced pressure of only 230 psi to produce the same volume of water. This represents a 24 percent reduction in energy consumption. The facility will also utilize other energy recovery technologies to reduce energy consumption another 12 percent. The operating costs for this new facility equates to \$0.85 per thousand gallons of treated water.

A second significant operating cost component is associated with personnel required to staff these facilities. Membrane processes have been demonstrated to be well suited to automation. It is now possible to operate very large facilities with personnel present only on a part-time basis. Advances in automation have made membrane personnel costs lower on a relative scale than other traditional treatment technologies.

With these reductions in capital and operating costs, membrane technology has brought previously unattainable potable water sources into economic play. In essence, every water source can now be analyzed as economical options in the effort to meet the rising demands for drinking water, as membrane technologies have at least brought cost levels low enough for consideration.

The costs of membrane treatment facilities still rise above the existing cost of providing drinking water for most communities, which will likely necessitate a certain amount of education of utility customers as to the benefits to existing customers for increased costs to be incurred for the benefit of new customer growth. Of help in this education process is the generally superior quality of water produced by membrane facilities over conventional treatment. Blending new membrane-treated water with existing conventionally-treated water will raise the overall quality of drinking water for existing customers. Adding membrane facilities to existing conventional facilities may also forestall even more expensive replacements of existing facilities as new federal drinking water standards make existing treatment facilities non-compliant.

At the cost levels presently experienced with membrane treatment technologies and the potential benefits to drinking water quality that spring from such technology advances, alternative water sources

can be utilized while maintaining reasonable water rates.

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Editor@uswaternews.com

PINEWOODS WTP RO EXPANSION

RO Process Building Cost Breakdown

This Estimate =			M&S			Contr Fee	•
\$345,914.80	QTY	Unit	i.abor &	Subcontracts	Unit	OH &P	Total
ltem			Equipment	& Rentais	Price	10%	
Concrete							
Concrete Slab & Foundation	1.00	LS	40,000.00	274,468.00	314,468.00	345,914.80	345,914.80
Subtotal Concrete Slab & Foundation						-	345,914.80
Deduct:							
Original Budget for Foundation	153	CY					99,500.00
Original Budget for Pipe Trench Walls	63	CY					51,900.00
Total Deduct							151,400.00
Total Increase Concrete Slab & Found	ation						194,514.80
Increase for 150 mph Wind Load & 1.1	5 importanc	e Fac	tor				40,000.00
Total Increase RO Process Building	02/14/06						234,514.80
Decrease Footers to 150 mph wind load							-8,476.77
Extend trench to east side of bldg							2,770.33
Total Increase RO Process Building	04/04/06						228,808.37

PROPOSAL

Allen	Concrete	and	Masonn	, Inc.
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6301 Shirley Street Naples, FL 34109 Phone (239) 566-1661 Fax (239) 566-B515

E-mail: Info@Allenconcrete.com

Submitted To:	MITCHELL & STARK	Fax:	(239) 566-7865	Date: 12/21/2005
Street:	6001 Shirley Street	Job Name:	PINEWOODS WIP EXP	ANSION - RO BUILDING
City, State, Zip:	Naples, FL 34109	Job Loc:	Estero, Fl.	
Architect:	Harn R/O Systems	Plan Date:	3S-1 thru 3S-5	

	IALS	
LABOR ONLY	☐ MATERIALS ONLY	LABOR AND MATERIALS
	☑ Slab-on-Grade Vapor Barrier ☐ 6" x 6" - W1.4 / W1.4 (10/10) WWM ☐ 6" x 6" - W2.1 / W2.1 (8/8) WWM ☐ 6" x 6" - W2.9 / W2.9 (6/6) WWM	Quote No. 05-E196
Structural Beams	Saw Out Control Joints	NOTES:
Columns Shearwalls / C.I.P. walls	Reinforcement (Black) Reinforcement (Epoxy)	
Elevated Slab	Concrete Pumping	
Elevated Slab Topping Stairs Stair Topping Titt Wat! Panels		
THE FOLLOWING ITES THE GENERAL CONTR EXCLUDED FROM OUR	MS ARE TO BE PROVIDED BY ACTOR OR OTHERS, AND ARE R PROPOSAL, U.N.O. 5; Grade to +/- 1"; Excavation and backfili;	
De-rocking and de-watering; Pastained concrete; Curing, sealir all misc. metals (embeds, anch flashing, etc.); Installation of j-	ower and testing; Soil treatment; Colored or og and hardeners; All site work; Supplying of or boits, steel lintels, truss straps, inserts, boits, steel lintels and flashing; Masonry fill Striking of block; Setting and filling of hollow	
MATERIA	L SPECIFICATIONS	i
	4000psi (maximum) il polyethylene M A-615 Grade 60	
PRICE: \$ 274,4	68.00	
WE PROPOSE, hereby to furnis	th material and labor - complete in accordance	e with the above specifications for:
Two hundred seventy-four	thousand, Four hundred sixty-eight doll	ars.
like manner according to standard p above specification involving edtra o will become an extra charge over an pertains to only that which is identifi	pecified. All work to be completed in a workman ractices. Any alterations or deviations from the ost will be executed only upon written orders and d above estimate. This proposal includes and ed in it or an associated Exhibit. All agreements	Authorized Signature: Christopher L Allen
	r delays beyond our control. Owner to carry fire, sourance. Our workers are fully covered by	Note: This proposal may be withdrawn by us if not accepted within 30 days.

Acceptance Of Proposal

Signature:

Pinewoods WTP R/O Expansion, Contract #2974

Harn R/O Systems Summary of Revised Costs Response to Kim Hoskins' Email 3-30-07 April 18, 2006

From Part 1 from Documentation Provided to Lee County 3/14/06

- 1. High Service Pumps Increase in Sizing
 - Proposal for Design Effort Cost is attached
 - Pump Quotes provided previously
 - Breakdown and Butler proposal for HSP structure is attached
- 2. Transfer Pumps Increase in Size and Cost
 - Pump Quotes provided previously
 - Breakdown for Piping and Valving Cost Increase is attached
- 3. R/O Building and Slab
 - Breakdown and Butler proposal are attached
- 4. Sodium Hypochlorite Structure
 - Breakdown and Butler proposal are attached
- 5. Transfer Pumps Add VFD's
 - Proposals for Design Effort from Carollo and Wilson Structural are attached
 - Breakdown for Electrical Equipment, Labor and Materials is attached
- Material and Equipment Costs
 - Additional information is difficult to assemble as the project was originally priced
 over two years ago with no design to base quotes on, budget estimates were
 prepared based on our experience, not anticipating unprecedented price increases.
 We will continue to try to work with County staff to provide information that is
 available or explain increases. Please bear in mind that Harn priced this project
 with conservatism in mind and has attempted to absorb as many cost increases as
 possible. The increases listed in the change order request are the most severe and
 un-foreseeable we have experienced.

7. Caustic Bulk Tank Deduct

- Quote for tank was previously supplied, no quote was available for heat tracing, it
 was budgeted at \$11,000; the remainder of the deduct was the budget for bulk
 tank piping, fittings, and instruments.
- 8. Sand Separators Deduct
 - Quote for Sand Separators is attached, the remainder of the deduct was the budget for the piping, fittings, valving and slab.

TASK ORDER NO. 3 SCOPE OF SERVICES

PINEWOODS WATER TREATMENT PLANT REVERSE OSMOSIS EXPANSION

This Task Order describes the engineering Scope of Services for completion of the Pinewoods
Water Treatment Plant (WTP) Reverse Osmosis (RO) Expansion for Lee County (OWNER), as
referenced in the Agreement between Harn R/O Systems, Inc. (PRIME CONTRACTOR) and
Carollo Engineers, P.C. (ENGINEER) datedth day of, 2005.
Services provided under this Task Order include basic engineering evaluation and design efforts
by ENGINEER as technical support to PRIME CONTRACTOR and
(GENERAL CONTRACTOR) in a design/build (D/B) project delivery of the Pinewoods WTP
RO Expansion.

BACKGROUND

Due to increases in potable water demands in the Pinewoods service area and limited fresh water resources, Lee County Utilities (County) wishes to expand their existing nanofiltration (NF) membrane water treatment plant that has been operating since 1990. The Pinewoods WTP was originally designed and built by a developer to treat water from the Surficial and Sandstone Aquifers. The County purchased the Pinewoods WTP in July 1998 and took over plant operation of the plant in July 2003. The current permitted plant capacity is 2.1 mgd.

The County previously requested a proposal from Harn R/O Systems to modify the existing Pinewoods WTP NF equipment. The proposed modifications will increase the production capacity to 2.3 mgd. While there is room for additional NF equipment, additional Surficial and Sandstone well capacity is not available. Therefore, additional capacity must be provided by another supply, the Hawthorne Aquifer. Therefore, this project also involves the addition of a new 3-MGD RO treatment plant to treat the Hawthorne Aquifer supply.

PURPOSE

The purpose of this task order it to authorize payment for additional scope items and costs related to the following:

- Task 1 CT Basin Redesign
- Task 2 High Service Pump Station Redesign

ENGINEERING SERVICES

TASK 1 - CT Basin Redesign

The original design was based upon the use of pumps operating in a lead/lag configuration. At the County's request, Contractor has been directed to provide VFDs on the transfer pump station, which would also allow the CT basin volume to be reduced. ENGINEER shall provide services to redesign the electrical motor controls and CT basin structure to accommodate the revised transfer pumping and CT basin concept.

The cost for these services is \$16,267.

TASK 2 - HIGH SERVICE PUMP STATION

The Contractor's design/build proposal provided for four 200-HP high service pumps located in the existing high service pump building (which was to be expanded). During the design process, the Owner requested that the high service pump station capacity be expanded to produce a larger peak hour flow rate, which resulted in redesign of the original proposal. Additionally, the Owner requested that the pump station be located outside under a sun shade structure (in lieu of expanding the existing high service pump building). The design was completed in July 2005 and in March 2006, the Owner has requested (to reduce project costs) that the sun shade structure be eliminated. ENGINEER shall provide structural (foundation system) design services related to the design of a stand-alone pump station.

The cost for these services is \$25,000.

TIME OF COMPLETION

These services have already been provided. No payment has been requested to date.

Authorization of this Task Order will authorize ENGINEER to bill the PRIME CONTRACTOR.

PAYMENT

The method of payment for this Contract is lump sum. Total compensation for the services performed shall be the sum of \$41,267 plus approved adjustments. PRIME CONTRACTOR shall pay the ENGINEER in installments based upon monthly progress reports and invoices submitted by ENGINEER for services incurred.

EFFECTIVE DATE

This Task Order No. 3 is effective as of the	th day of, 2005.
IN WITNESS THEROF, duly authorized reprothe ENGINEER have executed this Task Order CONTRACTOR and acceptance by ENGINE	· · · · · · · · · · · · · · · · · · ·
CAROLLO ENGINEERS, P.C.	PRIME CONTRACTOR
A Professional Corporation	Harn R/O Systems, Inc.
Ву	Ву
Partner	
Ву	
Dartner	



COMMERCIAL & INDUSTRIAL CONSTRUCTION CG CA15477

August 12, 2005

Mitchell & Stark Construction Co., Inc. 6001 Shirley Street Naples, Florida 34109

Attention: Mr. John Losch

Re: Lee County - Pinewood R.O. WTP Expansion

Gentlemen:

We are very pleased to submit the following proposal to furnish building materials for the following Butler pre-engineered buildings and accessories:

I) MAIN R.O. BUILDING:

- a) 70' wide X 96' long X 18' height Clearspan building with a 3"/12" roof slope. Building to be designed per the FBC2001 Code with a 150 mph wind design, importance factor of 1.15 and exposure factor "C",
- b) CMR-24 Standing Seam roof system with 3/4" Thermax rigid insulation. Roof material is 24 gauge steel with Butler-Cote 500 FP paint finish (Hunter Green exterior). Liner panel to be ALZN or white.
- c) Thermawall Fineline wall panel system (2" thick) with 20+ year exterior paint finish (Country Wheat paint finish).
- d) Both 96' sidewalls shall have a four (4) foot roof overhang with "Modulese" flat pan soffit panels. Skirt/fascia to be 26 ga. Butlerib II panels with Hunter Green paint finish.
- e) Gutters, down spouts and gable trims (Hunter Green paint finish).
- Three (3) 3' X 7' X 1-3/4" flush type hollow metal doors with mortise locksets Ð and closers.
- One (1) 6'-4" X 7'-0" double, flush type hollow metal door with closers and bolt/rod hardware. Doors are rated for a 140 mph wind load.

Page -2-Mitchell & Stark Construction Co., Inc. August 12, 2005

- h) Galvanized framed openings for one (1) 14' X 14' and three (3) 10' X 12' overhead doors (doors by others).
- Secondary purlin/girt structurals to be galvanized steel with acrylic coating.

The total lump sum price for the above materials only, F. O. B. Lee County is:

ONE HUNDRED SEVENTY NINE THOUSAND SEVEN HUNDRED DOLLARS (\$179,700.00)

Additional accessories (roof curbs, wall louvers, etc.) to be quoted upon receipt of size/design criteria.

Full payment due within twenty five (25) days of building delivery to job site. No retainage to be withheld on materials.

II) CHEMICAL STORAGE BUILDING - 24W X 30L X 14'H and PUMP STATION BUILDING - 25W X 60L X 14'-9"H

- a) Clearspan buildings with a 3"/12" roof slope. Buildings to be designed per the FBC2001 Code with a 120 mph wind design, importance factor of 1.00 and exposure factor "C".
- b) MR-24 Standing Seam roof system with 3" fiberglass insulation. Roof material is 24 gauge steel with Butler-Cote 500 FP paint finish (Hunter Green color).
- c) Both sidewalls for each building shall have a four (4) foot roof overhang with open soffits.
- d) Gutters, down spouts and gable trims (Hunter Green).
- e) All frames to be open, intermediate type. All walls to be open with necessary cross rod, wind bracing. Columns for pump station only building shall be recessed 9" below finished floor.
- Secondary purlin/girt structurals to be galvanized steel with acrylic coating.

Page -3-

Mitchell & Stark Construction Co., Inc.

August 12, 2005

The total lump sum price for the above materials only, F. O. B. Lee County is:

(I) Chemical Storage Building - Lump Sum Price - \$21,600.00

(II) Pump Station Building - Lamp Sum Price - \$ 34,500.00

Additional accessories (roof curbs, wall louvers, etc.) to be quoted upon receipt of size/design criteria.

Full payment due within twenty five (25) days of building delivery to job site. No retainage shall be withheld on materials.

<u>ALTERNATE NUMBER I</u> - Furnish labor and equipment to erect the following Butler preengineered building components:

- 1) 70' X 96' X 18' R.O. building add lump sum price of \$35,000.00
- 24' X 30' X 14' Chemical storage building add lump sum price of \$8,800.00
- 3) 25' x 60' x 14'-9" Pump station building add lump sum price of \$14,300.00

<u>TERMS OF PAYMENT - Erection labor only</u> - Periodic monthly draws submitted at the end of each month shall be paid on or about the tenth (10^{th}) of the following month. Ten percent (10%) retainage shall be withheld and paid upon completion.

If you have any questions, please advise.

Sincerely,

PLATINUM CONTRACTING, INC.

W. Ross Hooker

President

Data: 11 /

PINEWOODS WTP RO EXPANSION

Lee County Utilities

High Service Pump Building Cost Breakdown Mitchell & Stark for Harn R/O

4/17/2006

	QTY	Unit	Material	Forms	Labor &	Subcontracts	Unit	Unit	Total
Item			Cost	Cost	Equipment,	& Rentals	Price	Price w/	
					Misc.			Sub. Fee	
Concrete	 	\vdash							
24 X 24 Exterior Grade Beams	27.30	CY	106.00	50.00	125.00	425.00	706.00	811.90	22,163.52
8 Inch Slab	41.27		106.00	50.00	125.00	425.00	706.00	811.90	
4 Inch Housekeeping Slabs	0.78		106.00	50.00		425.00	706.00	811.90	
Subtotal Concrete	69.35								56,303.26
Resteel	_								
24 X 24 Exterior Grade Beams	3,237.64	Lbs	0.64		0.20	0.60	1.44	1.65	
6 Inch Slab	4,407.76	Lbs	0.64		0.20	0.60	1.44	1.65	
4 Inch Housekeeping Slabs	47.64	Lbs	0.64		0.20	0.60	1.44	1.65	
Subtotal Resteel	7,693.04	Lbs		-					12,704.29
Total Concrete Slab & Foundation									69,007.55
Butler Metal Building	-								-
Purchase Building	1	LS	34,500.00		2,070.00			42,055.50	42,055.50
Building Erection	1	LS	0.00		5,000.00	14,300.00	19,300.00	22,195.00	22,195.00
Subtotal Steel Building							_		64,250.50
Total HSPS	_								133,258.05
Amount listed in Change Order Docu	ımentation	is slal	b cost (\$69,0	07.55/0.85	GC O&P = \$8	31,185)			-

PINEWOODS WTP RO EXPANSION

Lee County Utilities

Transfer Pump Discharge Piping Increase from 8" to 10" Mitchell & Stark for Harn R/O

4/18/2006

					Sub	15% Sub-	
Qty	Unit	Materials	Labor	Unit Price	Total	Cont. Fee	Total
_	\vdash						
ge Pipir	ig Esti	mate, 8"					_
80	L.F	12.72	50.00	62.72	5,017.60	752.64	5,770.24
9	Ea	530.00	250.00	780.00	7,020.00	1,053.00	8,073.00
8	Ea	530.00	250.00	780.00	6,240.00	936.00	7,176.00
4	Ea	530.00	500.00	1,030.00	4,120.00	618.00	4,738.00
4	Ea	1,060.00	500.00	1,560.00	6,240.00	936.00	7,176.00
		·		-			32,933.24
e Pipin	a Esti:	mate, 10"					
		15.90	50.00	65.90	5,272.00	790.80	6,062.80
20	Ea	530.00	250.00	780.00	15,600.00	2,340.00	17,940.00
8		742.00	500.00	1,242.00	9,936.00	1,490.40	11,426.40
4		750.00	500.00		5,000.00	750.00	5,750.00
4		2,800.00	500.00	_	13,200.00	1,980.00	15,180.00
		,					56,359.20
							23,425.96
rder Do	cume	ntation is cos	t (\$23,4 <u>2</u>	5.96/0.85 GC	C O&P = \$27	7,560)	
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PINEWOODS WTP RO EXPANSION Lee County Utilities R/O Building Cost Breakdown Mitchell & Stark for Harn R/O

4/17/2006

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106.00 50.0 106.00 1.38 1.38 0.64 0.64	0 125.00 100.00 1.00 1.00 0.20 0.20	300.00 2.00 2.00 0.60	506.00 4.38 4.38	1,243.15 581.90 5.03	8,852.0 272,429.0 7,027.0 6,079.4 2,314.0
106.00 1.38 1.38 0.64 0.64 0.64	100.00 1.00 1.00 0.20 0.20 0.20	300.00 2.00 2.00	508.00 4.38 4.38	581.90 5.03	7,027.0 6,079.4 2,314.0
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0.64	0.20	0.00	1.44	1.65	1,514.4
		U.60	1.44	1.65	302.8
0.64		0.60	1.44	1.65	9,934.4
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0.64	0.20	0.60	1.44	1.65	424.0
0.64	0.20	0.60	1.44	1.65	451.2
0.64	0.20	0.60	1.44	1.65	379.3
0.64	0.20	0.60	1.44	1.65	7,940.3
0.64	0.20	0.60	1.44	1.65	122.4
0.64	0.20	0.60	1.44	1.65	6,428.6
0.64	0.20	0.60	1.44	1.65	6,160.5
0.64	0.20	0.60	1.44	1.65	20,065.2
0.64	0.20	0.60	1.44	1.65	410.9
0.64	0.20	0.60	1.44	1.65	1,877.3
					56,622.0
0.64	0.20	0.60	1.44	1.65	2,804.0
0.64	0.20	0.60	1.44	1.65	1,067.9
					3,872.6
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Juilding Cost					40,000.
				1	6,000.0
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					242,946.
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		= \$269,940)			
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Building

PINEWOODS WTP RO EXPANSION

Lee County Utilities

Sodium Hypochlorite Building Cost Breakdown Mitchell & Stark for Harn R/O

4/17/2006

	QTY	Unit	Material	Forms	Labor &	Subcontracts	Unit	Unit	Total
Item			Cost	Cost	Equipment,	& Rentals	Price	Price w/	
					Misc.			Sub. Fee	
Concrete									
24 X 24 Exterior Grade Beams	16.50	CY	106.00	50.00	125.00	425.00	706.00	811.90	13,396.35
Perimeter Walls	5.99	CY	106.00	50.00	125.00	1,100.00	1,381.00	1,588.15	9,515.62
Sump Pit Walls	0.79	CY	106.00	50.00	125.00	550.00	831.00	955.65	755.04
8 Inch Slab	17.94	CY	106.00	50.00	125.00	425.00	706.00	811.90	14,569.09
6 Inch Housekeeping Slabs	3.28	CY	106.00	50.00	125.00	425.00	706.00	811.90	2,659.91
Subtotal Concrete	44.50								40,896.02
Resteel									
24 X 24 Exterior Grade Beams	1,956.94	Lbs	0.64		0.20	0.60	1.44	1.65	3,231.69
Perimeter Walls	957.03		0.64		0.20	0.60	1.44	1.65	1,580.44
Sump Pit Walls	74.14	Lbs	0.64		0.20	0.60	1.44	1.65	122.44
8 Inch Slab	1,898.75	Lbs	0.64		0.20	0.60	1.44	1.65	3,135.60
6 Inch Housekeeping Slabs	150.50	Lbs	0.64		0.20	0.60	1.44	1.65	248.53
Subtotal Resteel	5,037.36	Lbs							8,318.70
Total Concrete Slab & Foundation									49,214.72
Butter Metal Building			_						
Purchase Building	1	LS	21,600.00		1,296.00		22,896.00		26,330.40
Building Erection	1	LS	0.00		5,000.00	8,800.00	13,800.00	15,870.00	15,870.00
Subtotal Steel Building									42,200.40
Total Chemical Storage Building					-			-	91,415.12
Original Budget									30,500.00
Increase in Cost for Chemical Storage	e Building								60,915.12
Amount listed in Change Order Docum	nentation is	build	ing cost inc	crease (\$	60,915.12/0.8	35 GC O&P = \$7	1,665)		



6731 Professional Parkway West - Suite 100 - Sarasota, FL 34240

(941) 907-4789 • Fax (941) 907-0576

April 18, 2006

Mr. Jim Harn Harn R/O Systems Inc., 205 Seaboard Ave. Venice, FL 34285

RE: LEE COUNTY R/O WTP EXPANSION CT BASIN STRUCTURAL DESIGN

Dear Jim:

We would be pleased to provide structural engineering services for the above referenced project and submit the following proposal for your consideration.

The scope of work is to do a redesign for the Pincwoods WTP CT Basin as shown on the original design previously drawings by Corollo. The redesign will facilitate the use of variable speed drives on the pumps. The structure is anticipated to be poured concrete base slab, walls and roof slab.

Our scope of services will be to provide the design for all load bearing components of the structure. We will provide structural drawings in AutoCAD format to be submitted for permit. After the completion of the working drawings we will be available to answer questions during bidding and construction. We will review shop drawings relative to the structural portion of the work for general compliance with the intent of the structural design and perform inspections on an hourly basis.

The fees for our services as described above will be as follows:	
Contract Documents (through permit)	\$ 10,500.00

Contract Administration (after permit) Shop Drawing review & RFI's.....hourly

WILSON STRUCTURAL CONSULTANTS INC.

We are very interested in working with you on this project. Please contact me if you have any questions regarding this proposal.

Sincerely

WILSON STRUCTURAL CONSULTANTS, INC

Stephen K. Collins

The terms and conditions of this proposal including the attached General Conditions are accepted: BY...... DATE.....

> PLEASE SIGN AND RETURN THE ACCEPTED PROPOSAL COPY AND INITIAL & RETURN THE GENERAL CONDITIONS

PINEWOODS WTP RO EXPANSION Lee County Utilities Transfer Pump VFD Cost Breakdown Mitchell & Stark for Harn R/O

4/17/2006

Engineering Labor	_							
Carollo Engineers	\$16,267.00	T	see attache	ed proposal/ii	woice			
Wilson Structural	\$10,500.00		see attache	see attached proposal/invoice				
Total Engineering Labor	\$26,767.00					_		
	QTY	Unit	Material	Labor &	Subctr.	Unit	Unit	Total
Item			Cost	Equipment,	& Rentals	Price	Price w/	
				Misc.			Sub. Fee	
Tennefor Orumn VED's	4.00	EA	4,991.46	0.00	0.00	10 065 84	22,960.72	22,960.72
Transfer Pump VFD's	4.00	EA	4,991.40	0.00	0.00	19,303.04	22,000.72	22,000.72
Labor Breakdown		_						
Foreman	20.00	HRS	38.75	775.00		775.00	891.25	891.25
Journeymen	60.00	HRS	33.50	2,010.00		2,010.00	2,311.50	
Apprentice	20.00	HRS	26.00	520.00		520.00	598.00	598.00
Programming - level control, PID loops, screens and setpoint interface	30.00	HRS	75.00	2,250.00		2,250.00	2,587.50	2,587.50
Subtotal								6,388.25
Supervisory Staff (Eng & Office) Labor	20.00	HRS	40.00	800.00		800.00	920.00	920.00
Direct Job Expenses					_			
Tools Expendable	1	LS	190.00		190.00	190.00	218.50	218.50
Total Transfer Pump VFD Cost								30,487.47
Amount listed in Change Order Documentatio	l n is cost (\$30.	488/0	.85 GC O&P	= \$35,866)				

2010/12/0

2 IN SERVICE

The George S. Edwards Co 154 Airpark Industrial Road Alabaster, AL 35007 Tel 205-620-3000 FAX 205-620-3030 e-mail: ronbrasher@gsedwards.net

June 18, 2004 REVISION 1

3-7 PSI AP

Kurt Beyer Harn RO Systems 工HB-0810-1100 GPM -0500 500 GPM

Tel: (941) 488-9671

Fax: (941) 488-9400

Re: Stainless (316) JPL and JPX for Harn RO in Venice, FL

Item	Qty	Trade Price ea. (US\$)
JPL-0450-V/FL/\$6	1	\$12,580.00 net each

^{*}Flow rate of 450-825 gpm

JPX-0450-V/FL/S6

1

\$14,140.00 net each

same as above but with the accessible body design.

Lead Time: 10-12 weeks ARO

Purging valves for above units:

Lakos P/N APP-20-120V 2" automatic pneumatic pinch valve system w/pure gum rubber sleeve and remote timer \$ 1465.00 each

Lakos P/N 108105 2" pneumatic pinch valve only
Lakos P/N 106480 spare pure gum rubber liner
\$ 835.00 each
\$ 527.00 each

Lead time: 4 weeks ARO

 This quote is valid for 10 days. (Due to increasing cost of raw materials, please use as budgetary pricing and call to verify pricing if order is not placed within the 10-day time frame.)

Prices quoted are Ex-Works Factory, Fresno, CA, USA.

^{*316}SS

^{*}inlet/outlet of 6" flanged with 2" purge

^{*}includes petcocks and pressure gauges for the inlet/outlet

^{*}vertical or 90 degree profile

Hoskins, Kim P.

From: Hoskins, Kim P.

Sent: Thursday, March 30, 2006 4:40 PM

To: 'Julie Nemeth'
Cc: Velez. Sergio I.

Subject: Pinewoods Change Order Documentation

Julie.

Thank you for the back-up for the Change Order request. I've been looking through it and have the following questions:

Part 1.

<u>High Service Pumps</u> - (a) Please provide engineering invoice for design effort. (b) It appears pump increase is cost + 15%. (c) Please provide evidence of cost of open building.

<u>Transfer Pumps</u> - (a) It appears pump increase is cost + 16.7% (b) Please provide back up for increase in pipe, fittings, etc.

R/O Building and Slab - Please provide evidence of cost of building, slab.

Sodium Hypochlorite Structure - Please provide evidence of cost of building, slab.

<u>VFD</u> – Please provide engineering invoice for design effort. Provide backup for services and materials to switch from soft start to VFD.

Material Escalations – The R/O feed pumps increase is cost + 9%. The R/O cartridge filter increase is cost + 15%. Please provide scrubber quote. It appears De Loach is not supplying the scrubber as originally planned (per their quote). The cleaning system increase is at cost. Provide explanation or more information on valve differences, as I fall \$11,059 short of the apparent additional cost. Provide further explanation of the instrumentation back-up (I'm having difficulty comparing apples to apples). Please provide back-up for fiberglass, PVC pipe and valves, stainless steel pipe and valves, chemical feed equipment and chemical piping.

Part 2

<u>Caustic Bulk Tank</u> – Please provide more back-up for deduct amount <u>Sand Separators</u> – Please provide quote.

Part 3

In general, the most difficulty with this part is that piping to get water to and from a proposed storage tank was not included in the price of a water treatment plant expansion? In our position, it would be difficult and highly unlikely to justify a change order for this, as it seems so big of an oversight. We can understand pipe increase do to a design change, but a tank would not serve its purpose without pipe.

Thanks.

Kim P. Hoskins, PE Senior Engineer Lee County Utilities Phone - (239) 479-8571 Fax - (239) 479-8176 khoskins@leegov.com

PINEWOODS WTP RO EXPANSION, CONTRACT #2974

Harn R/O Summary of Revised Costs JEN 2/7/2006 Updated 3/14/06

Part 1. Original Scope of Supply from Proposal - Additional Costs

	Proposal Basis	Current	Additional Cost	
High Service Pump Increase in Sizing (1) Design Effort-process hydraulics, structural, electrical	Mod. Exist. Bidg.	Mod. Exist. Bldg. & Add New Struct.	\$25,000	ial
Increase in Pump and Motor Size Copy of quotes attached	Four, 200 HP	Three, 250 HP	\$9,800	cod+ +15%
Move HSP's outside-sitework, foundation, structure, lighting	no structure	1800 sf, 130 mph Engineered open building	\$156,774	
Delete Structure and Keep Slab As Designed			\$ 81,186	Cast + 15%
Total			\$115,986	,

	Proposal Basis	Current	Additional Cost	
Transfer Pump Increase in Size and Cost (2)				
Increase in Pump and Motor Size	Four, 25 HP	Four, 30 HP	\$2 3,5 2 9	Cost + 1677
Increase in Piping and Valving	10" piping, παings,	14" piping, fittings, supports, check and isolation valves – four pumps	27 See \$35,294	Cost + 15%
Copy of quotes attached			51,089	
Total			_\$58,824	

	Proposal Basis	Current	Additional Cost	
R/O Building and Slab Increase in Size, Design and Wind Load	5800 sf, 130 mph standard construction	6720 sf, 172.5 mph, upgraded/insulated roof and wall sections	\$ 260,940	Cast + 10 %
Deduction in footers, \$5,706			\$264,234	

	Proposal Basis	Current	Additional Cost
Increase Sodium Hypochlorite Structure	500 sf Pole Barn on Slab	680 sf Engineered 130 mph Butler structure with retaining wall	\$71,665

Cost 415%

167%

Proposal Basis	Current - proposed	Additional Cost	_
Soft starters	Variable frequency drives		.
		10,500 - 16,267- \$26,767	Proposed Wilson Stru Proposed Carullo
, \$4	800 della decre	\$35,866	•
		Conn	MORNICY R
	# 626	33 \$62,353	Not in
	Soft starters	Soft starters Variable frequency drives	Soft starters Variable frequency drives 10,500 16,367 \$26,767

	Proposal Basis	Current - proposed	Additional Cost
Material and Equipment Cost Escalations from Proposal	Pricing prepared January-March 2004 (4)	Current pricing autumn 2005 Final plans rec'd July 2005	
See Quotes Attached			
Sand Separators - Delete		increase	\$13,900
R/O feed pumps		increase	\$39,850
Cartridge filters		increase	\$6,000
Degasifier/scrubber		increase	\$38,950
Pressure Vessels		increase	\$7,550
Fiberglass		increase	\$12,000
PVC pipe and valves		increase	\$3,600
Stainless steel pipe and valves		increase	\$12,450
Instrumentation	,	increase	\$5,800
Chemical feed equipment		increase	\$18,000
R/O cleaning system		increase	\$5,061
Chemical piping, in plant and double-contained in yard		increase	\$21,200
Misc. Valves (R/O process, degasifiers, permeate and concentrate lines)		increase	\$17,275
Total			\$180,186
Original Proposal Line Item, \$6,402,	<u>649 — this increase</u>	e is 3% of origi <u>nal line</u> i	tem

Part 1. Additional Costs - Total

\$753,247

Note 1: Increase in High Service Pump capacity, Owner-directed process modification

Note 2: Increasing transfer pumps; D/B engineer-directed process upgrade

Note 3: D/B team is currently recommending VFD's for the Transfer Pumps for the following reasons: improves post-treatment chemical control and stability and therefore improves finished water quality, reduces size of clearwell back to size originally bid, reduces power consumption

Note 4: 9 month delay from preparing pricing in January-March 2004, providing proposal in April 2004, modifiying proposal to add ground storage tank and providing final, accepted proposal July 2004 — contract approved December 7, 2004 and Notice to Proceed provided December 24, 2004, also 2 1/2 month delay in receiving DOH construction permit, final design documents provided July 2005

Part 2. Changes in Scope of Supply from Proposal - Potential Deducts

	Proposal Basis	Current - proposed	Deduct
Eliminated need for New Caustic Bulk Tank	7200 gallon bulk tank	No bulk tank	\$28,000
	Proposal Basis	Current	Deduct
Consider Deleting Sand Separators - Leave Provision for Future	_		<u> </u>
Delete sand separators and valves and piping	3 sand separators	leave piping stub- outs for addition if needed	\$112,756
	Proposal Basis	Current	Deduct
Consider Deleting HSP Structure		· · · · · · ·	
Delete HSP Structure	HSP go in existing building	Moved HSP's outside when size was increased	\$64,250
Deduct incorporated in Part 1			4 0 ,, 2 00
Total			\$0
ert 2. Deducts Total	_		\$140,756
Difference Between Additional Costs and	•	•	\$612,491
Additional		nal Contingency, 5%=	\$404,672 \$207,819
Additional amount	crequireu baseu on	original contingency=	\$207,019

Current Cont. after transfer of \$230,000 for conc. tank coating per Owner's direction=

\$174,672

Part 3. Yard Piping related to WTP/New Crom Tank not included in July 2004 proposal

	Proposal Basis	Current - proposed	Additional Cost	
Yard Piping Associated with New 1 MG Finished Water Ground Storage Tank				
Item 1. 16" Finished Water Transfer Line to Tank, incl. above-ground inject/meter assembly See Attached Breakdown	Not Included	500 LF piping, fittings, valves, restraints, slab	\$218,187	
Item 2. 12" Equalization Line between new tank and old tank	Not Included	130 LF piping, fittings, valves, restraints	\$58,851	
Eliminate			\$ 0	
<u>Item 3.</u> 18" from new Tank, increasing to 24" and tying in old Tank, including injection assembly	Not included	200 LF piping, fittings, valves, restraints, slab	\$1 63,766	(50,490)
Revised per Attached Breakdown, Deleting Injection Assembly		,	\$ 113,276	
<u>Item 4.</u> 18" to 24" from Tank to HSP suction, Piping and Valving, including metering assembly	Tie into exist. 8" w/ 12" all above- ground	Buried & above- grade 24" piping, fittings, valving, supports, slab	\$ 392,416	(21,859)
Revised per Attached Breakdown, Reducing tie-in piping to 16"			\$370,559	
Revised Total			\$702,022	

	Proposal Basis	Current - proposed	Additional Cost
Miscellaneous Yard Piping			
additional piping resulting from relocating Sand Separators from original location due to electrical easement conflict (extension of flush/drain piping and turbidity sample and air tubing/piping) Eliminate, reduce Sand Sep. deduct amount	sand separators adjacent to RO building	relocated out by clearwell	\$ 12,227 \$0
10" Well Flush Line <i>Eliminat</i> e	Not included	fittings, etc.	\$ 54,180 <i>\$0</i>
Total			\$0

Part 3. Yard Piping related to WTP not included in July 2004 prop., Total (Approximately 8% of Total Current Contract)

PINEWOODS WTP RO EXPANSION Lee County Utilities

Piping Cost Breakdown Mitchell & Stark for Harn R/O

3/14/2006

						Sub	15% Sub-	
Activity	Qty	Unit	Materials	Labor	Unit Price	Total	Cont. Fee	Total
16" FW Transfer Line								
6" C900 CPVC FW	20	LF	12.72	50.00	62.72	1,254.40	188.16	1,442.56
8" C900 CPVC FW	80	LF	12.72	50.00	62.72	5,017.60	752.64	5,770.2
8" Ftgs	9	Ea	530.00	250.00	780.00	7,020.00	1,053.00	8,073.00
Wall Brackets	8	Ea	530.00	250.00	780.00	6,240.00	936.00	7,176.00
8" BFV	4	Ea	530.00	500.00	1,030.00	4,120.00	618.00	4,738.00
8" CV	4	Ea	1,060.00	500.00	1,560.00	6,240.00	936.00	7,176.00
ARV	4	Ea	1,060.00	1,500.00	2,560.00	10,240.00	1,536.00	11,776.00
16" C900 FW	112	LF	31.80	50.00	81.80	9,161.60	1,374.24	10,535.8
16" DI Ftgs	5	Ea	1,060.00	500.00	1,560.00	7,800.00	1,170.00	8,970.0
16" Bell Restrainers	22	Ea	227.95	250.00	477.95	10,514.97	1,577.24	12,092.2
16" DI Ftgs	11	Ea	1,060.00	500.00	1,560.00	17,160.00	2,574.00	19,734.0
Pipe Stands	7	Ea	265.00	250.00	515.00	3,605.00	540.75	4,145.7
16" DI Pipe	40	LF	159.00	50.00	209.00	8,360.00	1,254.00	9,614.0
Injectors, instruments, mixer	1	LS	11,632.00	1,500.00	13,132.00	13,132.00	1,969.80	15,101.80
								126,345.40
16" FW Transfer Line								
16" DI FW	275	LF	31.80	50.00	81.80	22,458.19	3,368.73	25,826.9
16" DI Ftgs	7	Ea	1,060.00	500.00	1,560.00	10,920.00	1,638.00	
16" Bell Restrainers	13	Ea	233.20	250.00	483.20	6,281.60	942.24	7,223.8
16" BFV	1	Ea	2,118.94	1,500.00	3,618.94	3,618.94	542.84	4,161.7
Tie in to 14" FW	1	Ea	1,060.00	1,500.00	2,560.00	2,560.00	384.00	2,944.0
					·			52,714.5
Injector Assembly Slab	1	Ea	4,815.00	750.00	5,565.00	5,565.00	834.75	6,399.7
Subcontractor Sub-Total								185,459.69
15% Gen. Contractor Overhead	and Profit							32,728.1
Total w/ Contract, Overhead and							_	218,187.8

PINEWOODS WTP RO EXPANSION

Lee County Utilities Piping Cost Breakdown Mitchell & Stark for Harn R/O

3/14/2006

						Sub	15% Sub-	
Activity	Qty	Unit	Materials	Labor	Unit Price	Total	Cont. Fee	Total
18" FW Transfer Line								
18" C900 FW	145	LF	37.07	50.00	87.07	12,624.89	1,893.73	14,518.6
18" DI Ftgs	5	Ea	1,590.00	500.00	2,090.00	10,450.00	1,567.50	12,017.5
18" Bell Restrainers	7	Ea	275.60	300.00	575.60	4,029.20	604.38	4,633.5
18" GV	1	Ea	7,950.00	3,000.00	10,950.00	10,950.00	1,642.50	12,592.5
Tie in to 18" FW	1	Ea	4,240.00	5,000.00	9,240.00		1,386.00	10,626.0
				,	·	-		54,388.2
24" FW Transfer Line								
24" C900 FW	74	LF	55.12	50.00	105.12	7,778.88	1,166.83	8,945.7
24" DI Ftgs	1	Ea	1,590.00	500.00	2,090.00	2,090.00	313.50	2,403.5
24" Bell Restrainers	4	Ea	275.60	300.00	575.60	2,302.40	345.36	2,647.7
						,		13,996.9
Revised 24" SH Inj Point								
24" C900 FW	26	LF	55.12	50.00	105.12	2,733.12	409.97	3,143.0
24" Di Ftgs	20	Ea	1,590.00	500.00	2,090.00	•	627.00	4,807.0
24 Dr Figs 24" Bell Restrainers	4	Ea	275.60	300.00	575.60			2,647.7
4" DI Ftgs	4	Ea	132.50	400.00	532.50	,		2,449.5
4" DIP	6	LF	42.40	50.00	92.40	554.40		637.5
njector/Diffusor/Tubing	1	LS	3,750.00	350.00	4,100.00	4,100.00		4,715.0
njector Dinasor rabing			3,730.00	330.00	7,100.00	4,100.00	310.00	18,399.9
								10,000.0
Subcontractor Sub-Total								86,785.0
Engineering Fee - Re-design injection	n/dif	fusor						9,500.0
15% Gen. Contractor Overhead and	l Prof	fit						16,991.4
Total w/ Contract. Overhead and Pro						_		113,276.5

PINEWOODS WTP RO EXPANSION

Lee County Utilities Piping Cost Breakdown Mitcheli & Stark for Harn R/O

3/14/2006

HSP Suction/Discharge Piping, Abo	Wa aroun	4						
nor suction bischarge Piping, Abc	ve-groun					Sub	15% Sub-	
Activity	Qty	Unit	Materials -	Labor	Unit Price	Total	Cont. Fee	Total
24" D∤P	70	LF	55.12	50.00	105.12	7,358.40	1.103.76	8,462.16
24" Bell Restrainers	7	Ea	275.60	300.00	575.60	4,029.20	604.38	4,633.58
24x14 MJ Tee w/DIML	2	Ea	3,105.80	930.00	4,035.80	8,071.60	1,210.74	9,282.34
20x14 MJ Tee w/DIML	1	Ea	2,014.00	810.00	2,824.00	2,824.00	423.60	3,247.60
24x20 MJ Reducer w/DIML	1	Ea	1,696.00	660.00	2,356.00	2,356.00	353.40	2,709.40
20x14 MJ Reducer w/DIML	 	Ea	1,484.00	510.00	1,994.00	1,994.00	299.10	2,293.10
24x14 MJ Reducer w/DIML	1	Ea	1,802.00	570.00	2,372.00	2,372.00	355.80	2,727.80
24x14 MJ Wye w/DIML	3	Ea	5,406.00	1,240.00	6,646.00	19,938.00	2,990.70	22,928.70
20" DIP	30	LF	53.00	50.00	103.00	3,090.00	463.50	3,553.50
20" Bell Restrainers	6	Ea	254.40	300.00	554.40	3,326.40	498.96	3,825.36
14" DIP	28	LF	23.32	50.00	73.32	2,052.96	307.94	2,360.90
14" Bell Restrainers	6	Ea	222.60	300.00	522.60	3,135.60	470.34	3,605.94
14" MJ 90 w/DIML	1	Ea	678.40	420.00	1,098.40	1,098.40	164.76	1,263.16
14" MJ 45 w/DIML	1	Ea	572.40	420.00	992.40	992.40	148.86	1,141.26
14" FL 45	4	Ea	572.40	420.00	992.40	3,969.60	595.44	4,565.04
14"x 4'0" Fx PE DIP	1	Ea	477.00	420.00	897.00	897.00	134.55	1,031.55
14"x 6"0" Fx PE DIP	4	Ea	530.00	420.00	950.00	3,800.00	570.00	4,370.00
20" Wall Sleeve	4	Ea	424.00	300.00	724.00	2,896.00	434.40	3,330.40
14" Link Seal	4	Ea	424.00	300.00	724.00	2,896.00	434.40	3,330.40
14" FL 90	4	Ea	742.00	420.00	1,162.00	4,648.00	697.20	5,345.20
14" FL Lugged Wafer BFV w/HW	4	Ea	1,961.00	420.00	2,381.00	9,524.00	1,428.60	10,952.60
14"x 1'0" Fx PE DIP	3	Ea	424.00	420.00	844.00	2,532.00	379.80	2,911.80
14" Dresser Coupling	3	Ea	371.00	420.00	791.00	2,373.00	355.95	2,728.95
14"x 60" Fx F DIP w/ 1/4" Tap	3	Ea	795.00	420.00	1,215.00	3,645.00	546.75	4,191.75
14"x 8" FL Ecc Red	3	Ea	954.00	330.00	1,284.00	3,852.00	577.80	4,429.80
14"x 6" FL Conc Red	3	Ea	763.20	300.00	1,063.20	3,189.60	478.44	3,668.04
14"x 4'0" Fx F DIP w/ 1/4" Tap	3	Ea	742.00	420.00	1,162.00	3,486.00	522.90	4,008.90
14" FL CV	3	Ea	2,332.00	420.00	2,752.00	8,256.00	1,238.40	9,494.40
14" FL 90 w/2" Tap Boss	0	Ea	848.00	420.00	1,268.00	0.00	0.00	0.00
2" ARV	4	Ea	2,120.00	1,000.00	3,120.00	12,480.00	1,872.00	14,352.00
14" FL BF Valve w/HW	4	Ea	1,908.00	420.00	2,328.00	9,312.00	1,396.80	10,708.80
14" BF	2	Ea	212.00	210.00	422.00	844.00	126.60	970.60
14" Pipe Stands	10	Ea	424.00	500.00	924.00	9,240.00	1,386.00	10,626.00
24" FL Acc Sets	8	Ea	445.20	400.00	845.20	6,761.60	1,014.24	7,775.84
14" FL Acc Sets	44	Ea	127.20	100.00	227.20	9,996.80	1,499.52	11,496.32
3" FL Acc Sets	3	Ea	31.80	25.00	56.80	170.40	25.56	195.96
5" FL Acc Sets	3	Ea	29.68	24.00	53.68	161.04	24.16	185.20
								192,704.35

						Sub	15% Sub-	
Activity	Qtv	Unit	Materials	Labor	Unit Price	Total	Cont. Fee	Total
16 24" DIP	24	LF	31.80	50.00	81.80	1,963.20	294.48	2,257.68
16 24" MJ 90 w/DIML	4	Ea	1.060.00	720.00	1.780.00	7,120,00	1.068.00	8,188,00
16 24x14 MJ Reducer w/DIML	1	Éa	1,060.00	570.00	1,630.00	1,630.00	244.50	1,874.50
24x16 MJ Reducer w/DIML	Ö	Ea	1,590.00	600.00	2,190.00	0.00	0.00	0.00
24"x 8'0" Fx PE DIP	1	Ea	1,484.00	720.00	2,204.00	2,204.00	330.60	2,534.60
16"x 8'0" Fx PE DIP	1	Ea	742.00	720.00	1,462,00	1,462.00	219.30	1.681.30
24" FL Tee w/2" Tap	1	Ea	3,922.00	1,080.00	5,002.00	5,002.00	750.30	5,752.30
16 24" FL Tee	2	Ea	1,590.00	1,080.00	2,670.00	5,340.00	801.00	6,141.00
16 24" BF w/2" Tap	2	Ea	424.00	400.00	824.00	1,648.00	247.20	1,895.20
ZARV	3	Ea	2,120.00	1,000.00	3,120.00	9.360.00	1,404.00	10,764.00
16 24" BFV	2	Ea	2,120.00	720.00	2,840.00	5,680.00	852.00	6,532.00
16 24" FL Wye	1	Ea	2,756.00	1,440.00	4,196.00	4,196.00	629.40	4,825.40
16 24"x 2'6" Fx F DIP	1	Ea	636.00	720.00	1,356.00	1,356.00	203.40	1,559.40
16 24"x 1'0" Fx F DIP	1	Ea	530.00	720.00	1,250.00	1,250.00	187.50	1,437.50
24"x 16" FL Conc Red	1	Ea	2,226.00	600.00	2,826.00	2,826.00	423.90	3,249.90
16"x 4'0" Fx F DIP	1	Ea	795.00	480.00	1,275.00	1,275.00	191.25	1,466.2
16"x 1'0" Fx Gr DIP	1	Ea	424.00	480.00	904.00	904.00	135.60	1,039.60
6"x 5'8" Fx Gr DIP	1	Ea	742.00	480.00	1,222,00	1,222.00	183.30	1,405.30
6" Gr Coupling	1	Ea	424.00	480.00	904.00	904.00	135.60	1,039.60
24"x 14" FL Conc Red	1	Ea	2,226.00	570.00	2,796.00	2,796.00	419.40	3,215.40
14"x 10" FL Conc Red	1	Ea	742.00	420.00	1,162.00	1,162.00	174.30	1,336.30
10" FL BF Valve w/HW	1	Ea	1,060.00	300.00	1,360.00	1,360.00	204.00	1,564.00
10"x 2'6" Fx Gr DIP	1	Ea	265.00	300.00	565.00	565.00	84.75	649.7
10"x 1'0" Fx Gr DIP	1	Ea	212.00	300.00	512.00	512.00	76.80	588.80
10" Gr Coupling	1	Ea	127.20	300.00	427.20	427.20	64.08	491.2
10" FL Acc Sets	4	Ea	65.72	62.00	127.72	510.88	76.63	587.5
14" FL Acc Sets	2	Ea	106.00	100.00	206.00	412.00	61.80	473.8
16" FL Acc Sets	6	Ea	137.80	130.00	267.80	1,606.80	241.02	1,847.82
24" FL Acc Sets	14	Ea	424.00	400.00	824.00	11,536.00	1,730.40	13,266.40
24" Pipe Stands	6	Ea	424.00	400.00	824.00	4,944.00	741.60	5,685.6
10" Pipe Stands	1	Ea	381.60	360.00	741.60	741.60	111.24	852.8
Tie in to 14" & 16" Distr Syst Piping	2	Ea	5,300.00	7,000.00	12,300.00	24,600.00	3,690.00	28,290.0
								122,493.0
Flow Meter Assembly Slab	11	Ea	5,500.00	950.00	6,450.00	6,450.00	967.50	7,417.5
Pressure gages/transmitters/tubing	1	LS	4,250.00	350.00	4,600.00	4,600.00	690.00	5,290.0
Set Pumps	4	Ea		12,000.00	12,000.00	48,000.00	5,770.43	53,770.4
Deduct Original HSP Piping Estimate	1	LS						-66,700.0
Subcontractor Sub-Total								314,975.3
15% Gen. Contractor Overhead and Pro	Fit							55,583.8
Total w/ Contract, Overhead and Profit		+						370,559.2

Venice, FL 34292

Mrs. Julia E. Nemeth, P.E. HELD MEETING TO
Harn R/O Systems, INC.

205 Seaboard Ave.

Volume FV 2000

SUBJECT: Pinewoods WTP RO Expansion- Contract 2974

Dear Julie:

I had an opportunity to review the request for change order submitted to me during the meeting held on February 7, 2006. I would like to take this opportunity to discuss and comment on the request in order to clarify some of the issues. My comments are as follows:

Part1 Original Scope of supply from proposal - Additional Costs

High S	Service Pump Increase in size	
•	Design effort\$25,000	No objection to
•	Increase in pump and motor size\$9,800	Need copy of price quotes for
		both
•	Move HSP's Outside\$156,774	Remove roof structure that will
		result in significant structural
		savings

Transfer Pump Increase in size and cost

Please provide cost breakdown to justify additional cost. Appears to be higher than expected for pump size.

R/O Building and Slab Increase in Size,	
Design and Wind Load\$269,940	Need further discussion, please see e-mail to Tom Seacord dated
	2/14/05 150 VS 170 MEH WIND LOAD
Increase sodium Hypochlorite Structure	No objection
Add VFD to Transfer Pumps\$62,353.00	Need copy of quotes (Normally, the prices for soft starts are

between \$4,000 to \$5,000.)

Material and Equipment cost Escalation.....See attached copy with comments. Ouotes and justification should be provided. Appears to be in the high side. Part 2. Changes in Scope of Supply from proposal – Potential Deduct Eliminate the need for Caustic Bulk Tank......\$28.000 approved, provide quote **Delete Sand Separators......\$112,756** approved approved, provide quote Part 3. Yard piping associated with new mg storage tank 16" Finished Water Transfer Line to Tank......\$218.187 The piping should have been part of the work since a tank always require some type of connection. Please provide detailed cost for all components. (\$436/lf) 12' Equalization line between tanks.....\$58,851 not required, eliminate 18" from new tank, increasing to 24"......\$163,766 the piping should have been part of the work since a tank always require some type of connection. Replace injection assembly as discussed. Please provide detailed cost for all components. (\$818/lf) 18" to 24" from tank to HSP suction......\$392,416 the piping should have been part of the original work. Please provide detailed cost for all components. Miscellaneous Yard Piping Additional piping resulting from relocation of sand separator....\$12,227 Need to discuss further, since sand separator was eliminated. 10" well flush line.....\$54.180 County staff will install.

Cordially,

LEE COUNTY UTILITIES

S. Ivan Velez, P.E. Deputy Director

cc:

PINEWOODS WTP RO EXPANSION, CONTRACT #2974

Ham R/O Summary of Revised Costs JEN 2/7/2006

Part 1. Original Scope of Supply from Proposal - Additional Costs

	Proposal Basis	Current	Additional Cost
High Service Pump Increase in Sizing (1) Design Effort-process hydraulics, structural, electrical	Mod. Exist. Bldg.	Mod. Exist. Bldg. & Add New Struct.	\$25,000
Increase in Pump and Motor Size	Four, 200 HP	Three, 250 HP	\$9,800
Move HSP's outside-sitework, foundation, structure, lighting	no structure	1800 sf, 130 mph Engineered open building	\$156,774
Total			\$191,574

	Proposal Basis	Current	Additional Cost	_
Transfer Pump Increase in Size and Cost (2)				
Increase in Pump and Motor Size	Four, 25 HP	Four, 30 HP	\$23,529	Quote
Increase in Piping and Valving	10" piping, fittings, check and isolation valves four pumps	14" piping, fittings, supports, check and isolation valves four pumps	\$35,294	ì
Total	_		\$58,824	

	Proposal Basis	Current	Additional Cost
R/O Building and Slab Increase in Size, Design and Wind Load	5800 sf, 130 mph standard construction	6720 sf, 172.5 mph, upgraded/insulated roof and wall sections	\$269,940

	Proposal Basis	Current	Additional Cost
Increase Sodium Hypochlorite Structure	500 sf Pole Barn on Slab	680 sf Engineered 130 mph Butler structure with retaining wall	\$71,665

	Proposal Basis	Current - proposed	Additional Cost
Add Variable Frequency Drives to Transfer Pumps (3)	Soft starters	Variable frequency drives	\$62,353

Proposal Basis Current - proposed Additional Cost

Material and Equipment Cost Escalations from Proposal	Pricing prepared January-March 2004 (4)	Current pricing autumn 2005 Final plans rec'd July 2005	
Sand Separators		increase	\$13,900
R/O feed pumps		increase	\$39,850
Cartridge filters		increase	\$2,200
Degasifier/scrubber		increase	\$28,300
Pressure Vessels		increase	\$7,550
Fiberglass		increase	\$12,000
PVC pipe and valves		increase	\$3,600
Stainless steel pipe and valves		increase	\$12,450
Instrumentation		increase	\$5,800
Chemical feed equipment		increase	\$22,800
R/O cleaning system		increase	\$2,400
Chemical piping, in plant and double-contained in yard		increase	\$21,200
Misc. Valves (R/O process, degasifiers, permeate and concentrate lines)		increase	\$17,275
Total			\$189,325
Original Proposal Line Item, \$6,402	2,649 — this increase	e is 3% of original line iter	n

Part 1. Additional Costs - Total

\$843,680

- Note 1: Increase in High Service Pump capacity, Owner-directed process modification
- Note 2: Increasing transfer pumps; D/B engineer-directed process upgrade

Note 3: D/B team is currently recommending VFD's for the Transfer Pumps for the following reasons: improves post-treatment chemical control and stability and therefore improves finished water quality, reduces size of clearwell back to size originally bid, reduces power consumption

Note 4: 9 month delay from preparing pricing in January-March 2004, providing proposal in April 2004, modifiying proposal to add ground storage tank and providing final, accepted proposal July 2004 -- contract approved December 7, 2004 and Notice to Proceed provided December 24, 2004, also 2 1/2 month delay in receiving DOH construction permit, final design documents provided July 2005

Part 2. Changes in Scope of Supply from Proposal -- Potential Deducts

	Proposal Basis	Current - proposed	Deduct
Eliminated need for New Caustic Bulk Tank	7200 gallon bulk tank	No bulk tank	\$28,000

	Proposal Basis	Current	Deduct
Consider Deleting Sand Separators - Leave Provision for Future			
Delete sand separators and valves and piping	3 sand separators	leave piping stub-outs for addition if needed	\$112,756
Total			\$112,756

	Proposal Basis	Current	Deduct
Consider Deleting HSP Structure			
Delete HSP Structure	HSP go in existing building	Moved HSP's outside when size was increased	\$64,250
Total			\$64,250

art 2. Potential Deducts - Total	<u>\$205,006</u>
Difference Between Additional Costs and Potential Deducts (Part 1. minus Part 2.)=	\$638,674
Original Contingency, 5%=	\$404,672
Additional amount required based on original contingency=	\$234,002
Current Cont. after transfer of \$230,000 for conc. tank coating per Owner's direction=	\$174,672

Additional amount required based on current contingency=

(approximately 5% current contract)

\$464,002

Part 3. Yard Piping related to WTP/New Crom Tank not included in July 2004 proposal

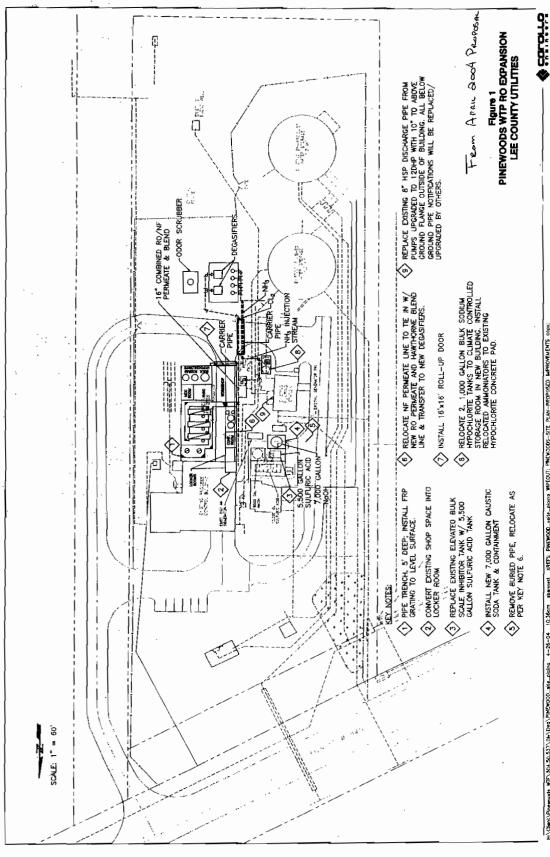
Proposal Basis Current - proposed Additional Cost

Yard Piping Associated with New 1 MG Finished Water Ground Storage Tank				
16" Finished Water Transfer Line to Tank, incl. above-ground inject/meter assembly	Not included	500 LF piping, fittings, valves, restraints, slab	\$218,187	Bealdown
12" Equalization Line between new tank and old tank	Not Included	130 LF piping, fittings, valves, restraints	\$58,851	Delite
18" from new Tank, increasing to 24" and tying in old Tank, including injection assembly	Not Included	200 LF piping, fittings, valves, restraints, slab	\$163,766	diffuser tap line corp. stap
18" to 24" from Tank to HSP suction, Piping and Valving, including metering assembly	Tie into exist. 8" w/ 12" all above- ground	Buried & above-grade 24" piping, fittings, valving, supports, slab	\$392,416 _{(*}	le" risted:
Total			\$833,220	24°

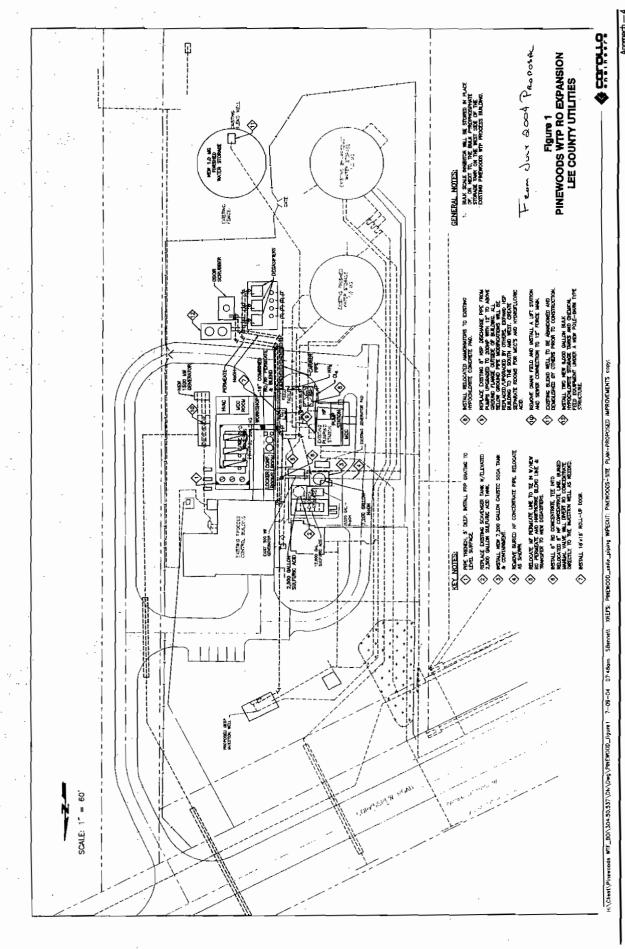
Proposal Basis Current - proposed Additional Cost

Miscellaneous Yard Piping			
additional piping resulting from relocating Sand Separators from original location due to electrical easement conflict (extension of flush/drain piping and turbidity sample and air tubing/piping)	sand separators adjacent to RO building	relocated out by clearwell	\$12,227
10" Well Flush Line	Not included	500 LF piping, fittings, etc.	\$54,18 0
Total			\$66,407

Part 3. Yard Piping related to WTP not included in July 2004 prop., Total (Approximately 10% of Total Current Contract)



PK/Chen/Pre-mode WTV.304.50.137/DH/DHy/PRE-WOOD_aid_abjaing 4-26-D4 10.36mm shemrest XMD's PREDMOD_aid_abjang WPE-UT PRE/NODE_SIT PLAIL-PROPMALEN'S copy.



LeeCounty/Proy/PrewoodsRO_090/NnDespriPgure1.hds

