## Exhibit "B"

## **Engineering Fee Estimate**

**Water Treatment Plant BPS Improvements** 

City of Lompoc

Project Manager: Dan Ellison

VT-B99-197-00

January 27, 2004

	<u> </u>	
Task Description	Total	
Phase 100 - Preliminary Engineering/Design		
101. Kickoff Meeting/Job Walk	\$ 3,	789
102. Data Collection and Review		317
103. Technical Memoranda	\$	_
a. TM 1: Pump Hydraulics and Pump Selection	<u> </u>	600
b. TM 2: Electrical Issues		936
c. TM 3: New Electrical Building	· · · · · · · · · · · · · · · · · · ·	724
d. TM 4: Equipment Hoisting	1	779
e. TM 5: Controls	1	667
f. TM 6: Field Measurements and Verification	4	117
g. TM 7: Opinion of Probable Cost	<u> </u>	381
104. Site Survey	4	720
105. Potholing Existing 18-Inch Asbestos Cement Water Pipeline	4	420
106. Soils Report	<u>  '                                   </u>	055
107. Preliminary Drawings	\$	055
a. G-101: Title Sheet and Drawing Index	1	513
b. G-102: Legnend, Symbols, Vicinity Map and Location Map		680
d. C-101: Site Plan and Horizontal Control	4	745
e. C-102: Demolition Plan and Sections of Existing Pumping Station	4	539
f. C-102: Denolition Plan and Sections of Existing Funding Station  f. C-103: Demolition Plan and Sections of Existing Electrical Building	' '	539 539
g. D-101: Pumps and Piping - Mechanical Plan	4	516
h. D-301: Pumps and Piping - Sections	,	
	,	516
<ul> <li>i. D-502: Hoist or Gantry System - Plan and Section</li> <li>j. E-102: Electrical - Site Power Plan and Connections to Existing Power Cables</li> </ul>		516
		169
k. E-103: Electrical - Pumping Station Building - Power Plan	1	169
1. E-104: Electrical - New Electrical Building - Power Plan	<u> </u>	169
m. E-601: Electrical - Single Line Diagram	<u> </u>	672
n. N-601: Communications Block Diagram	<u>'</u>	992
o. N-602: BPS P&ID		992
108. Draft Predesign Report - Prepare and Submit Draft TMs and Preliminary Drawings	1 .	961
109. Building and Safety Predesign - Submit 2 Copies of Preliminary Plans to Building Department		600
110. Predesign Review Meeting	1	516
111. Review with Building Department		078
112. Final Predesign Report	\$	-
a. Revise TMs and Preliminary Drawings per City WTP Staff Review Comments		767
b. Revise Preliminary Drawings per Bldg Dept. Review Comments		104
c. Submit Revised Draft TMs and Preliminary Drawing	<u> </u>	840
Subtotal Phase 100	\$ 72,	099
Phase 200 - Final Design (Plans and Specs)		
201 Final Design Kickoff Meeting	\$ 3,	273
202 50% Submittal	\$	-
a. Drawings	Φ.	-
General	\$	-
G-101 Title Sheet and Drawing Index		513
G-102 Legend, Symbols, Vicinity Map and Location Map		680
some, symbols, training truly and Document truly	Ψ	50

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Task Description Civil	\$ Ĕ
C-101 Site Plan and Horizontal Control	\$ 1 910
C-101 Site Flan and Horizontal Control  C-102 Existing Pumping Station - Demolition Plan and Sections	\$ 1,810
	 905
C-103 Existing Electrical Building - Demolition Plan and Sections C-501 Civil Details	\$ 905
	\$ 5,326
Process Process	\$ - 2.550
D-101 Pumping Station - Plan	\$ 2,650
D-301 Pumping Station - Sections	\$ 3,940
D-302 Pumping Station - Sections	\$ 7,881
D-501 Pumping Station - Details	\$ 7,881
D-502 Pumping Station - Details	\$ 3,940
Mechanical	\$ -
M-101 Electrical Building - HVAC Plan and Details	\$ 5,719
Structural	\$ =
S-101 Electrical Building - Slab and Foundation Plan	\$ 4,516
S-102 Electrical Building - Roof Framing Plan	\$ 4,516
S-301 Electrical Building - Sections	\$ 4,876
S-501 Electrical Building - Details	\$ 4,157
S-502 Electrical Building - Details	\$ 4,157
S-503 Electrical Building - Details	\$ 4,157
S-504 Electrical Building - Details	\$ 4,157
S-601 Pump House - Crane Framing	\$ 4,876
Architectural	\$ -
A-201 Electrical Building - Elevations	\$ 6,404
A-501 Electrical Building - Sections, Details, Schedules	\$ 4,860
Electrical	\$ =
E-101 Electrical Symbols and Legends	\$ 1,386
E-102 Electrical Site Plan	\$ 3,105
E-103 Pumping Station - Plan	\$ 2,438
E-104 Electrical Building - Power and Control	\$ 2,438
E-105 Electrical Building - Lighting, Small Power, and Special Sys.	\$ 4,542
E-201 Electrical Building - Panel Elevations	\$ 4,542
E-501 Electrical Panelboard and Lighting Fixture Schedule	\$ 5,261
E-502 Electrical Details	\$ 4,876
E-601 Single Line Diagram	\$ 1,386
E-602 Conduit Schedule	\$ 5,594
E-603 Control Schematics	\$ 5,646
Instrumentation and Contro	\$ 3,040
N-001 Instrumentation Symbols and Legends	\$ 996
N-501 Control Panel Layout	\$
	 2,325
N-502 Pumping Station - Instrumentation Details	\$ 1,992
N-601 Communications Block Diagram	\$ 1,992
N-602 Pumping Station - P&ID	\$ 1,992
b. Specifications (excluding I&C)	\$ 6,963
c. Specifications (I&C)	\$ 4,105
c. Updated Opinion of Probable Construction Cost	\$ 1,561
03. Building Department Coordination	\$ 719
04.a. Review Meeting (50% Submittal)	\$ 2,375

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Water Treatment Plant BPS Improvements
City of Lompoc

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		Total
Task Description		<b>₽</b>
b. Prepare and Distribute Meeting Decision Log	\$	481
205. 90% Submittal	\$	-
a. Building Department Coordination	\$	539
b. Updated Opinion of Probable Cost	\$	992
206.a. Review Meeting (90% Submittal)	\$	2,375
b. Prepare and Distribute Meeting Decision Log	\$	481
207. 100% Submittal	\$	=
a. Final Plan Check	\$	4,505
b. Updated Opinion of Probable Cos	\$	1,862
Subtotal Phase 200	\$	169,564
Phase 300 - Bidding and Construction Services		
301. Prebid Meeting	\$	898
302. RFI/RFC - Responding to Bidder Questions Forwarded from City Staff	\$	1,862
303. Bid Addenda	\$	1,862
304. Bid Opening	\$	719
305.a. Preconstruction Meeting	\$	
		1,617
b. Prepare and Distribute Meeting Decision Log	\$	1,617
b. Prepare and Distribute Meeting Decision Log	\$	
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review	\$	420
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals	\$ \$ \$	420 - 32,131
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals b. Maintain and Distribute Submittal Log	\$ \$ \$ \$	420 - 32,131 1,864
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals b. Maintain and Distribute Submittal Log 307. Requests for Information - Respond to up to 20 RFIs	\$ \$ \$ \$ \$	32,131 1,864 4,958
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals b. Maintain and Distribute Submittal Log 307. Requests for Information - Respond to up to 20 RFIs 308. Change Order Review - Prepare up to 5 Change Orders	\$ \$ \$ \$ \$	32,131 1,864 4,958 3,756
b. Prepare and Distribute Meeting Decision Log 306. Submittal Review a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals b. Maintain and Distribute Submittal Log 307. Requests for Information - Respond to up to 20 RFIs 308. Change Order Review - Prepare up to 5 Change Orders 309. Construction Coordination Meetings/Site Observations - Up to 5 Meetings/Observations	\$ \$ \$ \$ \$ \$ \$	32,131 1,864 4,958 3,756 6,906
b. Prepare and Distribute Meeting Decision Log  306. Submittal Review  a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals  b. Maintain and Distribute Submittal Log  307. Requests for Information - Respond to up to 20 RFIs  308. Change Order Review - Prepare up to 5 Change Orders  309. Construction Coordination Meetings/Site Observations - Up to 5 Meetings/Observations  310. Record Drawings - Based on Contractor's and City Inspector's Marked-Up Contract Drawings  311. I&C Factory Testing  312. Field Operational I&C Testing	\$ \$ \$ \$ \$ \$ \$ \$	420 - 32,131 1,864 4,958 3,756 6,906 5,183
b. Prepare and Distribute Meeting Decision Log  306. Submittal Review  a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals  b. Maintain and Distribute Submittal Log  307. Requests for Information - Respond to up to 20 RFIs  308. Change Order Review - Prepare up to 5 Change Orders  309. Construction Coordination Meetings/Site Observations - Up to 5 Meetings/Observations  310. Record Drawings - Based on Contractor's and City Inspector's Marked-Up Contract Drawings  311. I&C Factory Testing  312. Field Operational I&C Testing  313. I&C Start-Up	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	420 - 32,131 1,864 4,958 3,756 6,906 5,183 2,485
b. Prepare and Distribute Meeting Decision Log  306. Submittal Review  a. Review up to 50 Shop Drawing Submittals and up to 20 Resubmittals  b. Maintain and Distribute Submittal Log  307. Requests for Information - Respond to up to 20 RFIs  308. Change Order Review - Prepare up to 5 Change Orders  309. Construction Coordination Meetings/Site Observations - Up to 5 Meetings/Observations  310. Record Drawings - Based on Contractor's and City Inspector's Marked-Up Contract Drawings  311. I&C Factory Testing  312. Field Operational I&C Testing	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	420 - 32,131 1,864 4,958 3,756 6,906 5,183 2,485 1,992