



HAYDEN AREA REGIONAL SEWER BOARD

Protecting the Aquifer Since '88

10789 N. Atlas Road • Hayden, Idaho 83835 • Phone (208) 772-0672 • Fax (208) 772-3863

Ken Windram, Administrator

HARSB WWTP FACILITY UPGRADES 2013-2023

Payment Request Approval Form

Request Date: 03-23-2024 Approval Needed by: 05-01-2024

Payee: J-U-B Engineering

Work performed: CMS, O & M Manual

Amount: \$ 3,133.30

Approved by
(Signature & Title): _____

Please Mark Your Entity:

_____ City of Hayden

_____ Hayden Lake Sewer District

_____ Kootenai County

Date Approved _____

Deputy or City Clerk/Board Secretary Signature: _____

Date Received back to HARSB: _____

Paid with Check # _____ on (Date) _____



J-U-B ENGINEERS, INC.

Invoice

J-U-B COMPANIES



THE LANGDON GROUP



GATEWAY MAPPING INC.

Const - [Signature]

Hayden Area Regional Sewer Board
Attn: Ken Windram, Administrator
10789 North Atlas Road
Hayden, ID 83835

March 27, 2024
Project No: 20-19-070
Invoice No: 0171612

Project 20-19-070 HARSB Phase 2 Tertiary Treatment
Professional Services from February 25, 2024 to March 23, 2024

Task 250 Construction Phase Services

Sub Task 001 Project Setup/Controls/Management

Professional Personnel

	Hours	Rate	Amount	
Project Accountant - Lead	.40	105.00	42.00	
Project Engineer - Lead	2.00	201.00	402.00	
Totals	2.40		444.00	
Total Labor				444.00
Total this Sub Task				\$444.00

Sub Task 009 Record Drawing Development

Professional Personnel

	Hours	Rate	Amount	
Project Engineer I	.10	176.00	17.60	
Project Engineer - Lead	8.50	201.00	1,708.50	
Totals	8.60		1,726.10	
Total Labor				1,726.10
Total this Sub Task				\$1,726.10

Sub Task 010 O&M Manual Assistance

Professional Personnel

	Hours	Rate	Amount	
Administrative Assistant - Senior	8.00	83.00	664.00	
Project Engineer I	1.70	176.00	299.20	
Totals	9.70		963.20	
Total Labor				963.20
Total this Sub Task				\$963.20

Total this Task \$3,133.30

	Current	Prior	Total	Received
Billings to Date	3,133.30	438,185.06	441,318.36	434,752.66
Total this Invoice				\$3,133.30

(Note: Please remit payment within 15 days.)

Don Bloomquist  Digitally signed by Don Bloomquist
Reason: I am approving this document
Date: 2024.03.28 08:20:45-06'00'

Don Bloomquist P.E., Project Manager
email to: soliver@harsb.org, ken@harsb.org



Hayden Area Regional Sewer Board					
PHASE 2 CONSTRUCTION PHASE SERVICES BUDGET (as amended November 18, 2021 Additional Services Agreement)					
J-U-B Project # 20-19-070		Budget	Previous Requests	This Request	Remaining Budget
Task 250	Construction Support Services	\$563,800.00	\$438,185.06	\$3,133.30	\$122,481.64
	001 - Project Controls	\$30,600.00	\$23,108.97	\$444.00	\$7,047.03
	002 - Construction Administration	\$194,300.00	\$187,268.18	\$0.00	\$7,031.82
	003 - Construction Progress Meetings	\$49,100.00	\$18,242.10	\$0.00	\$30,857.90
	004 - Submittal Reviews	\$68,000.00	\$57,193.43	\$0.00	\$10,806.57
	005 - RFIs	\$41,700.00	\$39,391.13	\$0.00	\$2,308.87
	006 - Construction Survey Staking	\$11,400.00	\$2,987.23	\$0.00	\$8,412.77
	007 - Const. Observation	\$94,600.00	\$81,737.64	\$0.00	\$12,862.36
	008 - Startup and Commissioning	\$9,000.00	\$0.00	\$0.00	\$9,000.00
	009 - Record Drawings	\$16,300.00	\$11,314.70	\$1,726.10	\$3,259.20
	010 - O&M Manual Assistance	\$48,800.00	\$16,941.68	\$963.20	\$30,895.12
Task 300	CMS - Subconsultants (B2 Arch)	\$34,200.00	\$15,071.09	\$0.00	\$19,128.91
	022 - B2 Dewatering	\$17,100.00	\$7,162.67	\$ -	\$9,937.33
	023 - B2 Ultrafiltration	\$17,100.00	\$7,908.42	\$ -	\$9,191.58
Task 400	Additional Services	\$40,000.00	\$0.00	\$0.00	\$40,000.00
	CMS Add'l Sevices	\$40,000.00	\$0.00	\$ -	\$40,000.00
TOTAL CMS BUDGET:		\$638,000.00	\$453,256.15	\$3,133.30	\$181,610.55



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Ken Windram, Administrator

HARSB WWTP FACILITY UPGRADES 2013-2023

Payment Request Approval Form

Request Date: 03-29-2024 Approval Needed by: 05-01-2024

Payee: Taurus Power & Controls, Inc.

Work performed: SCADA & PLC

Amount: \$ 1,625.00

Approved by
(Signature & Title): _____

Please Mark Your Entity:

_____ City of Hayden

_____ Hayden Lake Sewer District

_____ Kootenai County

Date Approved _____

Deputy or City Clerk/Board Secretary Signature: _____

Date Received back to HARSB: _____

Paid with Check # _____ on (Date) _____



Taurus Power & Controls, Inc

9999 SW Avery Street
Tualatin, OR 97062-9517, United States
Tel: 503-692-9004 Fax: 503-692-9273
AR@tauruspower.com
www.tauruspower.com

INVOICE

INVOICE DATE: 4/1/2024
INVOICE NO: 15117
BILLING THROUGH: 4/1/2024

Const
[Signature]

HAYDEN AREA REGIONAL SEWER BOARD
10789 N ATLAS RD
HAYDEN, ID 83835

SHIP TO:
10789 N ATLAS RD
HAYDEN, ID 83835
USA

**HAYDEN AREA REGIONAL SEWER BOARD : 2021-1815 : HARSB
PROGRAMMING**

**PO #:Signed Agreement KEN
WINDRAM**

PROFESSIONAL SERVICES

ACTIVITY	HOURS	RATE	AMOUNT
Labor : Labor:CTRL ENG			
CTRL ENG	13.00	\$125.00	\$1,625.00
TOTAL SERVICES			\$1,625.00
SUBTOTAL			\$1,625.00
SALES TAX			0.00%
AMOUNT DUE THIS INVOICE			\$1,625.00

This invoice is due upon receipt

WORK REPORT

Acct #	Customer: Hayden Area Regional Sewer Board (HARSB)	Job # 2021-1815
Address: 10789 N. Atlas Rd.	City: Hayden	State: ID ZIP: 83835
Representative: Ken Windram	Tel: (208) 772-0672	P.O. #
Rate: Special Hayden \$125 rate, Overtime if/as noted.		
Project PLC Programming February - March 2024		Tech # DCRE

EXPENSES

QTY.	PART NUMBER	PARTS DESCRIPTION	Tot. AMOUNT
		None this sheet, labor only, listed below.	

SERVICE DESCRIPTION

General Description	Date	S.T.	O.T.	Emg
Feb. 2024 [Note: up through 1/29/24 listed on separate, previous, sheet]				
Prepare the previous billing (4.5 pages of it, covering several months), for work through 1/29/24.	02/06 2024	1.0		
Answer Kens question about DW power monitor in the MCC. Email how to capture this data in the HMI and how to access via web browser. Noticed power is negative, so noted that this needs to be fixed too.	02/14 2024	1.5		
Phone calls with Rey Hight of Clearfire Boiler. More work at getting boiler comm working. Still not done however.	02/20 2024	1.0		
Do a fix / correction on previous billing I sent in, per Ken Windram request.	02/23 2024	0.5		
Programming changes for the 'new' second WAS pump at dewatering. Changing it from polymer pump 2 to WAS pump 2. Not done yet.	02/26 2024	2.0		
Finish programming changes for polymer pump that was moved to now be WAS pump 2 at dewatering. Call and discuss with Brock.	02/27 2024	2.0		
March 2024 Revise previous billing at Ken Windram request.	03/05 2024	0.5		
Remote programming: Looking into ethernet comm fails to hot water pumps and a mixer. Ken had emailed me asking for my help. I don't see any issues noted in the managed switches or the setup in the PLC. The problem is likely wire or hardware. Programming changes to allow different feed times to north and south dryer bed for the auto bed alternation logic. Email Ken about it. Adding amp limit PID to the rest of the GAHT fans. I figured it out and tested logic for this on Bed 1 Fan 3 a while ago and replicated it to the rest of the fans today. This will help keep the fans from tripping from high amps.	03/11 2024	3.0		
Call Brock twice and discuss ongoing issues and needs. Ethernet comm fails to hot water pumps 1 & 2 is one issue, we discussed what needs to be looked at onsite that I can't do remotely. Alternating feed sides to dryer that I did Monday works well I was told. Planning to hopefully get back to the Amiad changes next week. Also discuss the pH sensor problems. Ted from Taurus will be in the area next week and will stop by to investigate it further.	03/14 2024	0.5		
Several short calls with Brock today about the issues listed above.	03/18 2024	0.5		
Prepare this billing sheet.	03/29 2024	0.5		
	TOTAL HOURS	13.0	0	
TOTAL HOURS Feb-Mar 2024 : 13.0 X \$125/HR + 0 x \$125/Hr x 1.5 = \$1,625 plus any expenses listed above also (\$0).				
Thank You!				

**Hayden Area Regional Sewer Board
HARSB TREATMENT PLANT PHASE 2 UPGRADE With TML Bid Numbers**

ACTUAL AS OF 09-30-2023 with 172.5 gpd

	ER COUNT	% OF TOTAL ER'S
CITY OF HAYDEN	7797.5	67.25%
HLRWSB	2645.1	22.81%
KOOTENAI COUNTY	119.0	1.03%
HARSB	1,032.57	8.91%
TOTAL ER'S	11,594.17	

Project Description	TOTAL Costs with Bid Numbers 5% Contingency on TML Only	TOTAL Costs with Bid Numbers 5% Contingency on TML Only Regulatory	TOTAL Costs with Bid Numbers 5% Contingency on TML Only Replacement	TOTAL Costs with Bid Numbers 5% Contingency on TML Only Expansion	PROJECT COSTS TO DATE	February 2024 Month's Costs	March 2024 Month's Costs	ER % PER ENTITY REGULATORY	ER % PER ENTITY REPLACEMENT	ER % PER ENTITY EXPANSION	Entity Regulatory Costs To Date	Entity Replacement Cost To Date	Entity Expansion Costs To Date	Entity Expansion Costs To Date		
														City of Hayden	HLRWSB	Kootenai County
Filtration (Original) Tertiary Ultrafiltration	10,100,105.23	\$ 8,383,087.34	\$ -	\$ 1,717,017.89	\$ 9,996,158.08	\$6,948.69	\$1,966.07	83%	0%	17%	\$ 8,296,811.21	\$ -	\$ 1,699,346.87			
	CITY OF HAYDEN	\$ 5,637,932.03	\$ -		\$5,579,908			67.3%			\$ 5,579,908.18	\$ -				
	HLRWSB	\$ 1,912,522.48	\$ -		\$1,892,839			22.8%			\$ 1,892,839.39	\$ -				
	KOOTENAI COUNTY	\$ 86,042.18	\$ -		\$85,157			1.0%			\$ 85,156.66	\$ -				COSTS TO HARSB
	HARSB	\$ 746,590.66	\$ -		\$738,907			8.9%			\$ 738,906.98	\$ -				
Filtration (Original) Tertiary Clarification	2,305,415.98	\$ 1,913,495.26	\$ -	\$ 391,920.72	\$ 2,122,334.78	\$1,586.08	\$448.77	83%	0%	17%	\$ 1,761,537.87	\$ -	\$ 360,796.91			
	CITY OF HAYDEN	\$ 1,286,895.36	\$ -		\$1,184,698			67.3%			\$ 1,184,698.47	\$ -				
	HLRWSB	\$ 436,545.93	\$ -		\$401,878			22.8%			\$ 401,878.29	\$ -				
	KOOTENAI COUNTY	\$ 19,639.70	\$ -		\$18,080			1.0%			\$ 18,080.04	\$ -				COSTS TO HARSB
	HARSB	\$ 170,414.27	\$ -		\$156,881			8.9%			\$ 156,881.07	\$ -				
Filtration (Original) Secondary Eff EQ Phase 2	0.00	\$ -	\$ -	\$ -	\$ -			65%	0%	35%	\$ -	\$ -	\$ -			
	CITY OF HAYDEN	\$ -	\$ -		\$0			67.3%			\$ -	\$ -				
	HLRWSB	\$ -	\$ -		\$0			22.8%			\$ -	\$ -				
	KOOTENAI COUNTY	\$ -	\$ -		\$0			1.0%			\$ -	\$ -				COSTS TO HARSB
	HARSB	\$ -	\$ -		\$0			8.9%			\$ -	\$ -				
Utility Water(Original) Utility Water Loop-Phase 2	106,124.15	\$ -	\$ 88,083.05	\$ 18,041.11	\$ 87,829.99	\$73.01	\$20.65	0%	83%	17%	\$ -	\$ 72,898.89	\$ 14,931.10			
	CITY OF HAYDEN	\$ -	\$ -		\$0						\$ -	\$ -				
	HLRWSB	\$ -	\$ -		\$0						\$ -	\$ -				
	KOOTENAI COUNTY	\$ -	\$ -		\$0						\$ -	\$ -				COSTS TO HARSB
	HARSB	\$ -	\$ 88,083.05		\$72,899				100.0%		\$ -	\$ 72,898.89				
Biosolids Handling (New) Treatment to Class B	8,640,022.13	\$ 7,171,218.37	\$ -	\$ 1,468,803.76	\$ 8,475,441.14	\$5,944.18	\$1,681.86	83%	0%	17%	\$ 7,034,616.15	\$ -	\$ 1,440,824.99			
	HLRWSB	\$ 4,822,905.93	\$ -		\$4,731,036			67.3%			\$ 4,731,035.96	\$ -				
	KOOTENAI COUNTY	\$ 1,636,045.97	\$ -		\$1,604,881			22.8%			\$ 1,604,881.46	\$ -				
	HARSB	\$ 73,603.82	\$ -		\$72,202			1.0%			\$ 72,201.77	\$ -				COSTS TO HARSB
		\$ 638,662.64	\$ -		\$626,497			8.9%			\$ 626,496.96	\$ -				
Biosolids Handling (New) Dewatering Bldg & Enclosed Truck Loading	3,292,654.46	\$ -	\$ 2,732,903.20	\$ 559,751.26	\$ 3,181,119.41	\$2,265.28	\$640.95	0%	83%	17%	\$ -	\$ 2,640,329.11	\$ 540,790.30			
	CITY OF HAYDEN	\$ -	\$ -		\$0						\$ -	\$ -				
	HLRWSB	\$ -	\$ -		\$0						\$ -	\$ -				
	KOOTENAI COUNTY	\$ -	\$ -		\$0						\$ -	\$ -				
	HARSB	\$ -	\$ 2,732,903.20		\$2,640,329				100.0%		\$ -	\$ 2,640,329.11				
PHASE 2 FACILITY PLAN PROJECT	24,444,321.95	\$ 17,467,800.97	\$ 2,820,986.25	\$ 4,155,534.73	\$23,862,883						\$ 17,092,965.22	\$ 2,713,228.00	\$ 4,056,690.18			
	CITY OF HAYDEN	\$ 11,747,733.32	\$ -		\$ 11,495,642.61						\$ 11,495,642.61	\$ -				
	HLRWSB	\$ 3,985,114.38	\$ -		\$ 3,899,599.14						\$ 3,899,599.14	\$ -				
	KOOTENAI COUNTY	\$ 179,285.70	\$ -		\$ 175,438.47						\$ 175,438.47	\$ -				COSTS TO HARSB
	HARSB	\$ 1,555,667.56	\$ 2,820,986.25		\$ 4,235,513.01						\$ 1,522,285.01	\$ 2,713,228.00				
TOTAL PHASE 2 PROJECT COSTS*	24,444,321.95	\$ 17,467,800.97	\$ 2,820,986.25	\$ 4,155,534.73	\$ 23,862,883.40	\$ 16,817.24	\$ 4,758.30				\$ 17,092,965.22	\$ 2,713,228.00	\$ 4,056,690.18	\$23,862,883.40	\$ 3,400.26	\$ 17,089,564.96
	CITY OF HAYDEN	\$ 11,747,733.32	\$ -		\$ 11,495,642.61						\$ 11,495,642.61	\$ -			\$ 549.13	\$ 2,712,678.87
	HLRWSB	\$ 3,985,114.38	\$ -		\$ 3,899,599.14						\$ 3,899,599.14	\$ -			\$ 808.91	\$ 4,055,881.27
	KOOTENAI COUNTY	\$ 179,285.70	\$ -		\$ 175,438.47						\$ 175,438.47	\$ -			\$ 4,758.30	\$ 23,858,125.10
	HARSB	\$ 1,555,667.56	\$ 2,820,986.25		\$ 4,235,513.01						\$ 1,522,285.01	\$ 2,713,228.00			\$ 23,862,883.40	

* 20% Contingency Budgetted with 2 Turners, 2 screw Press

Projected Common Costs:		Projected Costs:	
\$	11,747,733.32	City	\$ 11,747,733.32
\$	3,985,114.38	District	\$ 3,985,114.38
\$	179,285.70	County	\$ 179,285.70
\$	4,376,653.81	HARSB	\$ 8,532,188.54
\$	20,288,787.22	Total	\$ 24,444,321.95

\$ 19,806,193.23 Totals without Expansion Component
 \$ 4,056,690.18 Expansion
 \$ 23,862,883.40

\$	11,495,642.61	City
\$	3,899,599.14	District
\$	175,438.47	County
\$	8,292,203.19	HARSB
\$	23,862,883.40	Total



Vendor:	Contract Costs- Current Change Orders :	Total \$ Thru March Payment Requests	Total Left in Project \$
Services:			
Panhandle Area Council	\$40,000.00	\$39,990.00	\$10.00
Taurus	\$63,000.00	\$61,291.91	\$1,708.09
Strata	\$74,045.00	\$55,287.51	\$18,757.49
Contractor:			
TML Construction thru CO 12	\$12,950,861.00	\$12,950,861.00	\$0.00
CMS:			
JUB Engineering	\$638,000.00	\$456,389.45	\$181,610.55
Aqua Engineering- thru 10/23 Am	\$133,530.00	\$133,530.00	\$0.00
Trindera	\$187,366.00	\$51,110.07	\$136,255.93
JTL	\$19,120.00	\$1,810.00	\$17,310.00

Vendor	Estimated Costs 9/2021	Total Costs- Updated thru bills 03/24
Engineering:		
JUB Engineering	1,566,526.00	
Aqua Engineering	315,500.00	
Ceres Greenhouse	19,500.00	
		\$1,544,204.49 Updated 12/21 Final Numbers
		\$327,360.00
		\$16,200.00 Updated 01/22 Final Numbers
Equipment:		
WesTech	3,974,360.00	
Huber	1,695,000.00	
Weholite	346,572.00	
ABC Building (NUCOR)	1,326,222.96	
Global Sampson	17,769.00	
Bountiful City Water	10,000.00	
PWTech	320,000.00	
Hydrastal-Apsco	52,797.00	
Cole Industrial	99,920.00	
40 Equipment Rental	325.00	
Whitney- Multismart Panel- Plant Drain	40,000.00	
		\$4,039,521.00 Machinery for SCC and UFF- considered TPP
		\$1,695,000.00 Machinery for Solar Dryer- Considered TPP, Exhaust Fans ?
		\$346,572.00 Tanks are RP, Freight is not
		\$1,614,638.09 Bldgs are RP- Updated w/Tax and Freight +Solar PH.R-thru c.o. 7
		\$0.00
		\$10,000.00 TPP
		\$320,000.00 TPP
		\$68,307.00 TPP
		\$100,300.00 Per Idaho State RP
		\$325.00 TPP
		\$49,706.20 TPP
Services:		
Panhandle Area Council	40,000.00	
Taurus	63,000.00	
Strata	74,045.00	
Allwest	5,100.00	
		\$40,425.00
		\$63,000.00
		\$55,287.51
		\$5,100.00
Building Fees:		
City of Hayden	37,810.69	
NLFD	15,124.28	
		\$86,124.35 Updated with Final Permit Invoices
		\$5,762.10
Contractor:		
TML Construction	12,665,000.00	
		\$12,950,861.00 Adj thru change order 12- 09/23
CMS:		
JUB Engineering	830,000.00	
Aqua Engineering	97,000.00	
Trindera		
JTL		
		\$638,000.00
		\$133,530.00 thru 10/23 Amend
		\$187,366.00
		\$19,120.00
Contingency	832,750.00	
		\$127,612.21 Updated 10/2023
Total:	24,444,321.93	
		\$24,444,321.95

Red= Total Costs should be completed- we do not expect additional costs under these headings

Balance WesTech 01/24 \$ 42,480.63
Balance Huber 06/23 \$ 126,332.50

PHASE II ITT and Solar Dryer
Contingency

			Starting Balance
State of Idaho Taxes (Boiler 1)	D-21		\$127,612.21
Smartsheet (Citi Costco)	D-21		\$124,625.21
Consolidated Supply-GAHT (Citi Costco)	J-22		\$124,379.70
H.D. Fowler -GAHT	J-22		\$124,348.91
CDA Crane-Weholite Tanks	F-22		\$123,027.75
Panhandle Health District- Shallow Wells	F-22		\$118,755.25
PumpTech-pump skid	A-22		\$118,380.25
Avondale Irrigation	M-22		\$94,780.25
Nucor Building-Solar Dryer Extra Hardw	J-22		\$88,040.25
Avista Gas Meter	J-22		\$87,004.68
Consolidated Supply-Plant Drain 2	A-22		\$86,734.68
Fastenal- Plant Drain 2	A-22		\$86,437.82
Citibank Costco -Bleach Tote Chem Valv	J-23		\$86,323.07
Hayden Ace- Bleach Tote Chem Pipe	J-23		\$85,953.89
Cole Industrial- Boiler Stack Offset	J-23		\$85,925.78
H.D. Fowler- UF Pumps	J-23		\$82,930.78
Grainger-Chem Totes	F-23		\$82,811.62
Platt- Filters	F-23		\$82,247.78
Culligan Water	F-23		\$81,758.93
HomeDepot- DeWatering	F-23		\$81,588.93
Cole Industrial- Boiler Condensate	M-23		\$81,330.93
Citi Costco-Harrington, IceBlox, HD Fowl	M-23		\$80,571.77
Woodhawk Controls, LLC	M-23		\$79,156.09
Woodhawk Controls, LLC	M-23		\$77,311.09
Rogers Machinery	M-23		\$76,751.09
Platt Electric	M-23		\$76,175.09
Citi Costco- Schaeffer, Consolidated, Air	M-23		\$75,739.17
Five-13 Consulting	M-23		\$71,841.23
Harrington	M-23		\$71,297.53
Citi Costco- Harrington, Grainger, Horizo	J-23		\$71,021.61
Hayden Heating	J-23		\$68,868.03
H.D. Fowler	J-23		\$68,046.03
Mountain West-Boiler Roof Snow Breaks	Ju-23		\$68,040.03
Hayden Ace- Boiler	Ju-23		\$67,927.72
Consolidated Supply	Ju-23		\$67,894.09
			\$64,067.44
			\$64,067.44