

RESOLUTION NO. 2015-10

**Authorizing the District General Manager to Sign and File
A Financial Assistance Application for a Financing Agreement
From the State Water Resources Control Board for
River Pines Water Rehabilitation Study**

WHEREAS, the River Pines Public Utility District (District) desires to make application to the State Water Resources Control Board for Financial Assistance for River Pines Water Rehabilitation Study.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE RIVER PINES PUBLIC UTILITY DISTRICT as follows:

The **District General Manager** (the "Authorized Representative") or designee is hereby authorized and directed to sign and file, for and on behalf of the District, a Financial Assistance Application for a financing agreement from the State Water Resources Control Board for the planning and/or design of River Pines Water Rehabilitation Study(the "Project").

This Authorized Representative, or his/her designee, is designated to provide the assurances, certifications, and commitments required for the financial assistance application, including executing a financial assistance agreement from the State Water Resources Control Board and any amendments or changes thereto.

The Authorized Representative, or his/her designee, is designated to represent the District in carrying out the District's responsibilities under the financing agreement, including certifying disbursement requests on behalf of the District and compliance with applicable state and federal laws.

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of the resolution duly and regularly adopted at a meeting of the River Pines Public Utility District held on the 9th day of December 2015 with the following vote:

- AYES:**
- NOES:**
- ABSTAIN:**
- ABSENT:**

ATTEST:

_____, CHAIRMAN

MARY BETH VAN VOORHIS, CLERK OF THE BOARD

RESOLUTION NO. 2015-11

**River Pines Public Utility District
December 9, 2015 Meeting
Agenda Item 8b**

**A RESOLUTION OF THE RIVER PINES PUBLIC UTILITY DISTRICT
AUTHORIZING THE DISTRICT MANAGER TO
NEGOTIATE THE 2015 CONTRACT WITH
SERVICE EMPLOYEES INTERNATIONAL UNION (SEIU) LOCAL 1021**

WHEREAS, the River Pines Public Utility District (District) desires to negotiate, in good faith, with the SEIU Local 1021 represented employee(s) of the District: and

WHEREAS, the River Pines Public Utility District Board of Directors hereby delegates to the District Manager the authority to negotiate the 2015 contract with SEIU Local 1021 represented employee(s).

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE RIVER PINES PUBLIC UTILITY DISTRICT, the District Manager will negotiate, in good faith, the 2015 contract with SEIU Local 1021 represented employee(s).

The foregoing Resolution was duly passed and adopted by the Board of Directors of the River Pines Public Utility District at a regular meeting held on the 9th day of December, 2015, by the following vote:

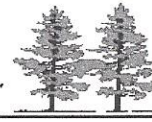
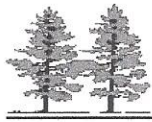
AYES:
NOES:
ABSTAIN:
ABSENT:

District Seal

ATTEST:

_____, **CHAIRMAN**

MARY BETH VAN VOORHIS, CLERK OF THE BOARD



Wednesday, September 23, 2015

WORKSHOP
EMERGENCY PLAN

BOARD MEMBERS PRESENT: insert attendees here

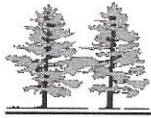
The following represents discussion topics of the September 23, 2015 Emergency Plan Workshop:

1. Posting Emergency Signs
 - a. Preparation of procedure for posting signs based on the specific type of emergency.
 - i. Specific locations throughout the District
 - ii. Three specific locations

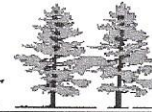
Boil water notices will only be posted upon verification by the District Plant Operator.

2. Other forms of notification available.
Find out if the District can set up auto dialer (Plymouth example).
3. Meet with District Plant Operator to review emergency procedures.
4. Review existing State and County procedures. Do no reinvent the wheel.
5. Specific plan with Brent Stewart to clarify response to emergency protocol when the SCADA alarm has been activated. Verify who is on call (Stewart/Guina) and detail a list of alarm contacts for the District.
6. Prepare an emergency materials list to be kept in District buildings (ie: waddels for sewer spills, etc.) and other emergency supplies.

The workshop adjourned at *insert time here*.



RIVER PINES PUBLIC UTILITY DISTRICT



Thursday, November 12, 2015
ACTION MINUTES

1. **CALL TO ORDER:** The meeting was called to order by Chairman Landgraf at 6:30 p.m.
2. **ROLL CALL: Members present:**

Chairman Cathy Landgraf	Candi Bingham, General Manager
Director Anita Ebbinghausen	Mary Beth Van Voorhis, Board Clerk
Director Michael Gardner	
Director René Walden-Qualls	
Director - Vacant	
3. **PLEDGE OF ALLEGIANCE:** Chairman Landgraf led the Pledge of Allegiance.
4. **AGENDA: M/S Gardner/Ebbinghausen to approve the agenda, as presented. Motion carried 4-0.**

AYES: Ebbinghausen, Gardner, Landgraf, Walden-Qualls.
NOES: None.
ABSENT: None.
ABSTAIN: None.

5. **PUBLIC COMMENT FOR MATTERS NOT ON THE AGENDA:** None.

6. **Minutes:**

- A. September 23, 2015 – WORKSHOP – Emergency Plan – **To be presented at the next meeting.**
- B. October 14, 2015 Regular Meeting.

M/S Ebbinghausen/Gardner to approve with the following correction: Motion carried 4-0.

Item #9A. Correct “Castle” to “KASL”.

AYES: Ebbinghausen, Gardner, Landgraf, Walden-Qualls.
NOES: None.
ABSENT: None.
ABSTAIN: None.

7. **EXPENDITURE REPORT:** Submitted Check Approval through October 7, 2015.
M/S Gardner/Walden-Qualls. Motion carried 4-0.

AYES: Ebbinghausen, Gardner, Landgraf, Walden-Qualls.
NOES: None.
ABSENT: None.
ABSTAIN: None.

8. **MONTHLY OPERATIONS REPORT:**

- A. Monthly Water and Wastewater Operations Report. Included in agenda package.
Board requested information from Operator Guina on the Fats, Oils, Grease (FOG) product currently being tested and to request an additional product sample to determine dose/cost application requirements. Also include information on the benefits and detriments of the product to the system and customers. District to create a public information announcement to customers.

B. Monthly General Manager Report. Included in agenda package.

Manager Bingham reported County Elections Department had verified three upcoming Board vacancies. Director Walden-Qualls two year term expires 12/2015, Director Ebbinghausen is filling an expired term, and the Board has one vacant seat. There are currently three vacancies and four applicants. The Amador County Board of Supervisors will meet to interview prospective candidates and make their selection on November 24, 2015 at 9:00 a.m. Applicants must attend the meeting in order to be considered for selection.

Discussion was held on Security Deposit Account Refunds and the transfer of accumulated funds to the fund for Town Hall Improvements (as included in the agenda package).

Board consensus to use non-refunded security deposits for Town Hall improvements.

Manager Bingham discussed the need for floor tile repair at Town Hall.

Board consensus to have the tiles re-glued as necessary.

Manager Bingham asked Board Clerk Van Voorhis to include "Monthly Financial Reports" to all future agendas.

9. BOARD MATTERS:

A. Continued Update on CDBG Grant Program.

Manager Bingham reported that due to the Butte Fire and committed tree fallers, some trees will be removed this month and the remainder in December 2015.

B. Continued Update on Cal-Fire Grant. **Refer to Monthly General Manager Report.**

C. Department of Water Resources - Water Rights Permit #20878.

Review issues and provide direction to staff on maintenance and retention of existing Cosumnes River Water Rights held by the District.

- i. Flow measuring device.
- ii. Slow Sand Filter operations review and needs assessment.
- iii. Purchasing and funding options.

Director Landgraf questioned additional options for using water. Manager Bingham is discussing options with Jan Ling. She will update the Board as progress continues.

D. Auditor – Confirm negotiated rates for the renewal of a three (3) year contract with Robert Johnson, CPA for audit services for fiscal years 2015/2016, 2016/2017 and 2017/2018.

Chairman Landgraf reported the Board offer of a \$50 increase per year (instead of the proposed \$100 per year increase) was accepted by Mr. Johnson. Mr. Johnson will amend the contract and send the signed revised contract to the District for execution.

E. Town Hall Heating and Air Conditioning Unit(s) – Review estimates and discuss options for replacement of heating and air conditioning for the building. Continued from October 14, 2015.

M/S Gardner/Ebbinghausen to approve Gilmore Heating & Air installation of new equipment, not to exceed \$8,000.00 with Manager Bingham to inquire of payment plan options, any PG&E discounts and/or rebates, removal of old equipment, cap-off the existing gas line, and the cost for an additional vent hood for office. Motion carried 4-0.

AYES: Ebbinghausen, Gardner, Landgraf, Walden-Qualls.

NOES: None.

ABSENT: None.

ABSTAIN: None.

- F. Road repair – Review options for necessary repairs to the access road to the wastewater treatment plant. Continued from October 14, 2015.

Manager Bingham to contact Amador Mechanical and Lubenko Construction for cost estimates. Manager Bingham will also try to locate existing easements. She was referred to Larry Lacey and Steve Zalkind as sources of historical information related to District easements and road agreements.

- G. Slate Creek Culverts – Update on timing and cleaning options for the Slate Creek culverts. Update from Operator Guina requested for the next meeting.

- H. Access to RPPUD Accounts – see letter included in package.

M/S Walden-Qualls/Gardner to authorize General Manager Bingham to make inquires with El Dorado Savings Bank about District account balances and deposits made into any of the District's bank accounts. Motion carried 4-0.

AYES: Ebbinghausen, Gardner, Landgraf, Walden-Qualls.

NOES: None.

ABSENT: None.

ABSTAIN: None.

- I. District Financial Statement Review. **Accepted as presented.**

- J. Bylaws & Administrative Policies Update – Continued review of updating the existing Bylaws & Administrative Policies.

Director Landgraf and Manager Bingham provided their written comments to Director Walden-Qualls. Director Ebbinghausen will hand deliver her responses to Director Walden-Qualls within the next couple of days. Director Gardner will complete and return his responses as soon as possible.

Chairman Landgraf asked to schedule a workshop after all Directors comments have been combined.

The Board commended Director Walden-Qualls for her efforts.

10. BOARD OF DIRECTORS COMMENTS/REPORTS:

- A. Dumpster Day – Report by volunteers Ebbinghausen and Jones on information obtained from ACES Waste Services related to organization of Dumpster Day in River Pines.

Volunteer Ebbinghausen stated ACES wants a definite responsible payee. ACES quoted \$317.00 to deliver and remove a dumpster plus \$78/ton for four tons each for a total of \$629.00 per dumpster per day. She said the dumpsters would be for TRASH ONLY. A day in April 2016 would be ideal.

Volunteer Jones will come up with a specific location, a plan to advertise, and a cost per user. This matter to be continued.

Director Walden-Qualls suggested a public meeting to educate residents of the specifics would be helpful.

- B. Capital Improvements and general repairs necessary at the District. Continued Item. Ongoing discussion.

11. COMMITTEE COMMENTS/REPORTS: Continued Item.

12. FUTURE AGENDA TOPICS:

Introduction of new Board members.

Election of Chairman and Vice Chairman.

13. ADJOURNMENT – The meeting adjourned at 8:01 p.m.

Respectively submitted,

DRAFT

River Pines Public Utility District
Account QuickReport-Board Meetings
As of December 3, 2015

Type	Date	Num	Name	Memo	Amount	Balance
Bank Accounts						
EI Dorado Checking						
Bill Pmt -Check	11/11/2015	11992	Brent Stewart	Alarm Monitoring - October 2015	-610.00	6,871.36
Bill Pmt -Check	11/11/2015	11993	R.A. Raymond Construction	Field Inspection of the Security ...	-75.00	6,871.36
Deposit	11/12/2015			Deposit	5,961.06	6,186.36
Check	11/12/2015	debit	USPS	Patrick McDaniel - CAL FIRE G...	-5.05	12,142.37
Check	11/17/2015	debit	AutoZone	Filters & Oil for Sewer	-110.49	12,031.88
Check	11/17/2015	debit	USPS	Postage - Frank Rizzo	-5.05	12,026.83
Bill Pmt -Check	11/18/2015	11994	Gilmore Heating & Air	Town Heating & Air Unit	-7,788.00	4,238.83
Bill Pmt -Check	11/18/2015	11995	RBC	fbo: Greg Guina #77110549	-300.00	3,938.83
Bill Pmt -Check	11/18/2015	11996	SEIU	For Period Ending 11/13/2015	-35.17	3,903.66
Bill Pmt -Check	11/18/2015	11997	RBC	fbo: Greg Guina #77110549	-300.00	3,603.66
Deposit	11/18/2015			Deposit	12,224.03	15,827.69
Check	11/19/2015	eft	Greg Guina		-1,919.78	13,907.91
Check	11/19/2015	eft	Tax Impound		-166.28	13,741.63
Check	11/19/2015	eft	Tax Impound		-790.92	12,950.71
Bill Pmt -Check	11/19/2015	11999	USPS	Postage for December 2015	-147.00	12,803.71
Check	11/19/2015	11998	USPS	VOID: Misprint	0.00	12,803.71
Deposit	11/23/2015			Deposit	5,504.43	18,308.14
Deposit	11/23/2015			Deposit	807.00	19,115.14
Check	11/26/2015	eft	RingCentral		-59.05	19,056.09
Deposit	11/30/2015			Interest	0.18	19,056.27
Bill Pmt -Check	11/30/2015	12000	A1 Janitorial Supply	Lift Station Cleaner	-132.46	18,923.81
Bill Pmt -Check	11/30/2015	12001	California Bank & Trust	1030264749	-890.00	18,033.81
Bill Pmt -Check	11/30/2015	12002	Candi Bingham	December 1, 2015	-2,083.33	15,950.48
Bill Pmt -Check	11/30/2015	12003	Gregory Guina	December 2015 Phone Reimbu...	-100.00	15,850.48
Bill Pmt -Check	11/30/2015	12004	PG&E - Street Lights	7368064062-7	-162.10	15,688.38
Bill Pmt -Check	11/30/2015	12005	Ragg Mopp Janitorial	November 2015 - Cleaning & Ti...	-390.00	15,298.38
Bill Pmt -Check	11/30/2015	12006	RBC	November Retirement - 2015	-300.00	14,998.38
Bill Pmt -Check	11/30/2015	12007	S&J Auto Service	Battery Replacement for sewer	-240.91	14,757.47
Check	12/01/2015	debit	Rocky Ridge Wireless	November 2015 Internet	-170.00	14,587.47
Check	12/03/2015	eft	Greg Guina		-1,919.80	12,667.67
Check	12/03/2015	eft	Tax Impound		-166.27	12,501.40
Check	12/03/2015	eft	Tax Impound		-790.90	11,710.50
Total EI Dorado Checking					4,839.14	11,710.50
Total Bank Accounts					4,839.14	11,710.50
TOTAL					4,839.14	11,710.50

River Pines Public Utility District Operations Report

For Month of: November 2015

River Pines Public Utility District
December 9, 2015 Meeting
Agenda Item 12a

Water System

<u>Water Production</u>	<u>SOURCE</u>	<u>Gallons</u>
	Well 2	392,400
	Well 3R	336,200
	Well 6R	73,996
Total Produced		802,596
Total Metered/Sold		568,570
Net Loss		29.2%

- Did Monthly report for California Dept. of health.
- Monthly meter reads
- Well 6R is running one time a week to keep water fresh in CT tank. Test alarm system to make sure it is responding correctly, and adjusted set point on contact tank on high level alarm so sonic sensor would not go into alarm mode. Had alarm for NTU meter due to faulty light. Replaced light bulb and recalibrated unit, everything is in proper working order now
- Flushed some hydrants in the distribution and exercised valves to insure proper function. This flushing process will add to water loss.
- Took water sample around town after flushing to insure proper CL2 residuals.
- I have been wrapping exposed water pipes around to prepare for the cold winter ahead
- Had water leak on river trl in road I exposed pipe and fixed leak
- Call out for broken pipe, pipe had frozen and ruptured. I had cut out damaged section and replaced with new.
- Customers have call about no water to their house. I responded and found that their pipe and valve at the house were frozen.
- I will be replacing broken water valve that will not close at customer service connection it is located in front of meter. So that a large portion of the system will not be shut down I will be fixing it while hot.
- I will be meeting with Jack Scroggs who is working on preliminary network improvement of the distribution system and go over his findings and evaluate what will work for the PUD. And add to spots that the survey may have missed.

Major or Significant Activities

Wastewater System

Wastewater Flows

(Gal.)

Influent Treated	602,100
Effluent Discharged	408,000

**River Pines Public Utility District
Alarm Monitoring Summary – November 2015**

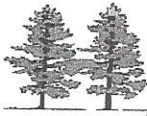
Station Alarm	Date & Time	Reason
Well 2	11/02/2015 08:52 AM	Low Chlorine
Well 6R	11/06/2015 09:42 AM	Low Contact Tank
Well 6R	11/12/2015 09:30 AM	Low Contact Tank - Note 1
Well 6R	11/19/2015 09:32 AM	Low Contact Tank *
Well 6R	11/25/2015 08:10 AM	Low Chlorine
Grinder 3	11/30/2015 11:48 AM	High Wastewater Level

* Multiple alarms

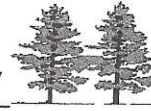
Communication > 30 min.	Date & Time	Reason
Slate Creek	11/02/2015 06:29 PM	Radio failure - Note 2
Grinder 2	11/14/2015 10:26 AM	Comm failure - Note 3
Slate Creek	11/24/2015 09:30 PM	Weak signal - Note 4

NOTES:

1. When the Contact Tank is filled too high, the sensor detects a fault and reads low level. Greg set the upper fill point to a more reliable level on 11/19.
2. Weak signal from Grinder 4 to Slate Creek. Upgraded antennas and radios at both ends.
3. Communications module failed during reprogramming. Replaced with new module.
4. Weak signal from General Store to Grinder 4. Switched frequencies.



RIVER PINES PUBLIC UTILITY DISTRICT



22900 Canyon Ave., PO BOX 70, River Pines, CA 95675
Phone: (209) 245-6723 Fax: (209) 245-5710 Email: RPPUI

River Pines Public Utility District
December 9, 2015 Meeting
Agenda Item 12b

GENERAL MANAGER'S REPORT

For the Month of: November/December 2015

1. Pre-Impasse Mediation meeting for Greg Guina's contract negotiations has been scheduled for January 14th at 10:00 a.m.
2. Planning Grant through California State Water Resource Board is 90% completed for submission. Hoping for information/input from Jack Scroggs and Terry Cox for completion.
3. Water Conservation for 2015 must be reported by December 15th.
4. Town Hall heating/air unit has been installed. District owns the current propane tank, so Kamps would not buy back the propane still in the tank.
5. Plant Operator reported someone throwing garbage over fence at the District's waste bin. Asked me to search video recording to see who it was. Person was recognized.
6. Heater went out in the office. Purchased a portable one at Lowes.
7. Attended a two (2) hour webinar on Capital Improvement Plans. Per the request of the District's auditor, I will be going through the steps to complete for the District.
8. Submitted requested reports for District's Workers Comp. Audit.
9. Completed monthly billing, late notices and 48 hour notices
10. Filed 2016 Encroachment Permit with the County of Amador
11. Office will be closed December 23rd & 24th for Holiday preparations.



7777 Greenback Lane
Suite 104
Citrus Heights, CA
95610

Tel. 916 / 722-1800
Fax 916 / 722-4595

Principal:
John C. Scroggs

CIVIL
WATER RESOURCES
SURVEYING

December 1, 2015

Ms. Candi Bingham
General Manager
Mr. Greg Guina
Systems Operator
River Pines Public Utility District
rppud@rppud.com
gregguina@att.net

Subject: Preliminary Alternatives, River Pines Public Utility District
Distribution System

Candi and Greg:

Attached please find two preliminary layouts of RPPUD distribution system improvements. Alternative 1 assumes replacement of nearly all of the existing 6 inch diameter mains with 6 inch and 8 inch diameter mains. New 4 inch diameter supply mains are proposed from Well 6R and from Well 2 and 3R to the junction at Canyon Drive and Fern Avenue. A 6 inch supply line is proposed from the junction of these two well supply lines to a new tank which would replace the existing concrete tank. A new 10 inch diameter main is proposed from the new tank to feed the distribution system with a new 8 inch diameter main proposed in Circle Avenue. At the perimeter of the RPPUD system 8 inch diameter mains are proposed where single, dead end, lines are proposed to serve fire hydrants. With the exception of the easement shown between Circle Avenue and the new tank all pipes would be placed within existing public streets.

Valve locations and hydrant spacing are proposed consistent with AWWA and Fire Code Standards, attached. Typically, with hydrants placed at no more than 500 foot intervals, no structure within the RPPUD service area should be more than \pm 300 feet from a hydrant.

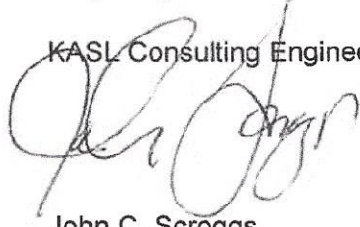
Alternative 2 is similar to Alternative 1 except that the existing 6 inch mains would be retained as much as possible. We will provide you with pipeline, hydrant and valve quantity estimates for each alternative. We suspect that the quantities and costs estimated for the Alternative 1 improvements will exceed the maximum DWSRF funding available to RPPUD.

With completion of field surveys we will conduct network modeling of both alternatives and make adjustment to ensure that maximum day plus fire flows can be delivered throughout the service area with either alternative.

We will review these preliminary alternatives with you when we meet on December 8, 2015.

Very Truly Yours,

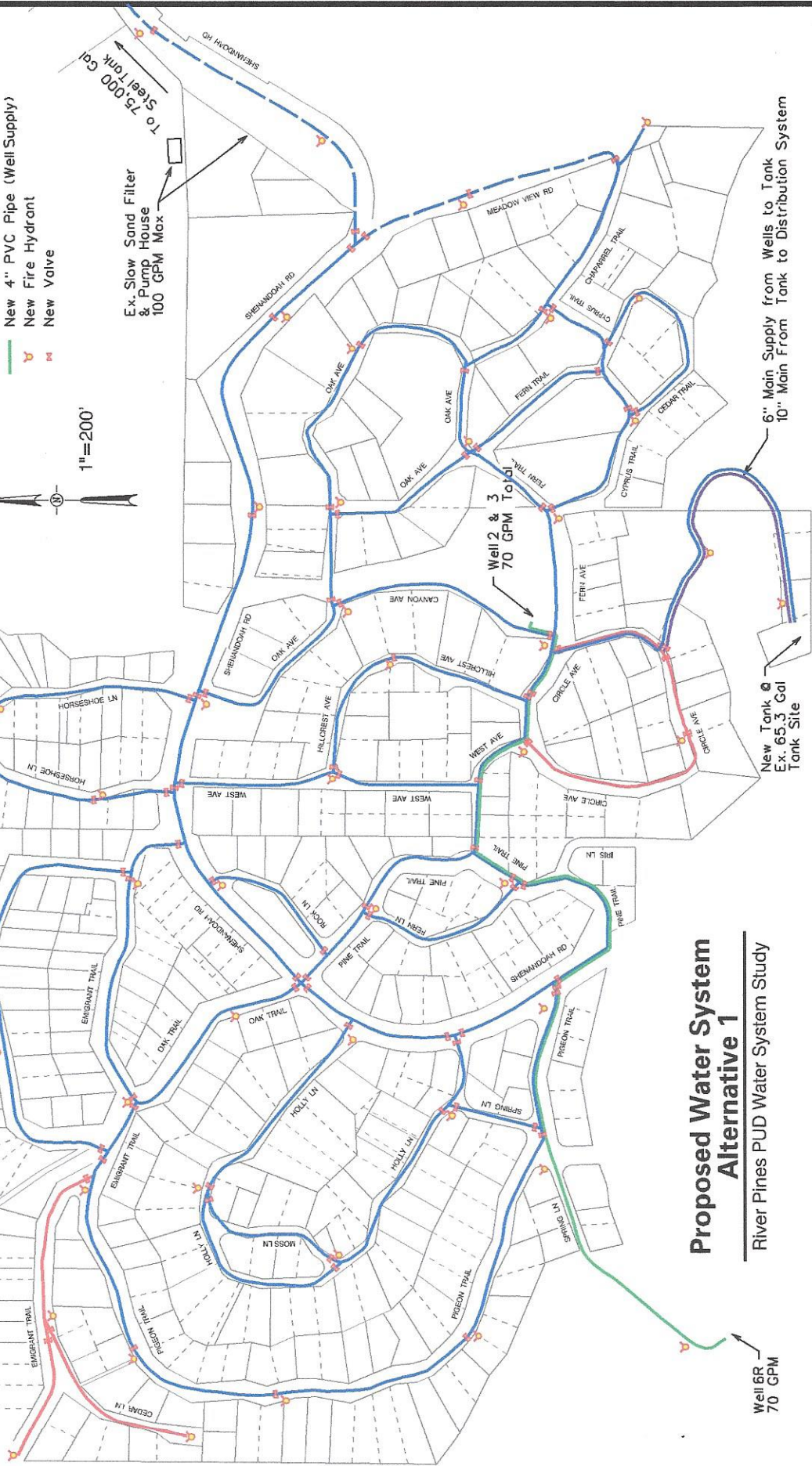
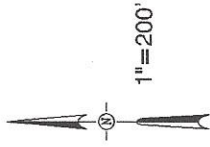
KASL Consulting Engineers

A handwritten signature in black ink, appearing to read "John C. Scroggs", is written over the typed name.

John C. Scroggs.



- Legend**
- New 10" PVC Pipe (Tank Outlet)
 - New 8" PVC Pipe
 - New 6" PVC Pipe
 - Existing 6" PVC Pipe
 - New 4" PVC Pipe (Well Supply)
 - New Fire Hydrant
 - New Valve



Proposed Water System Alternative 1

River Pines PUD Water System Study

Well 6R
70 GPM

New Tank @
Ex. 65.3 Gal
Tank Site

Well 2 & 3
70 GPM Total

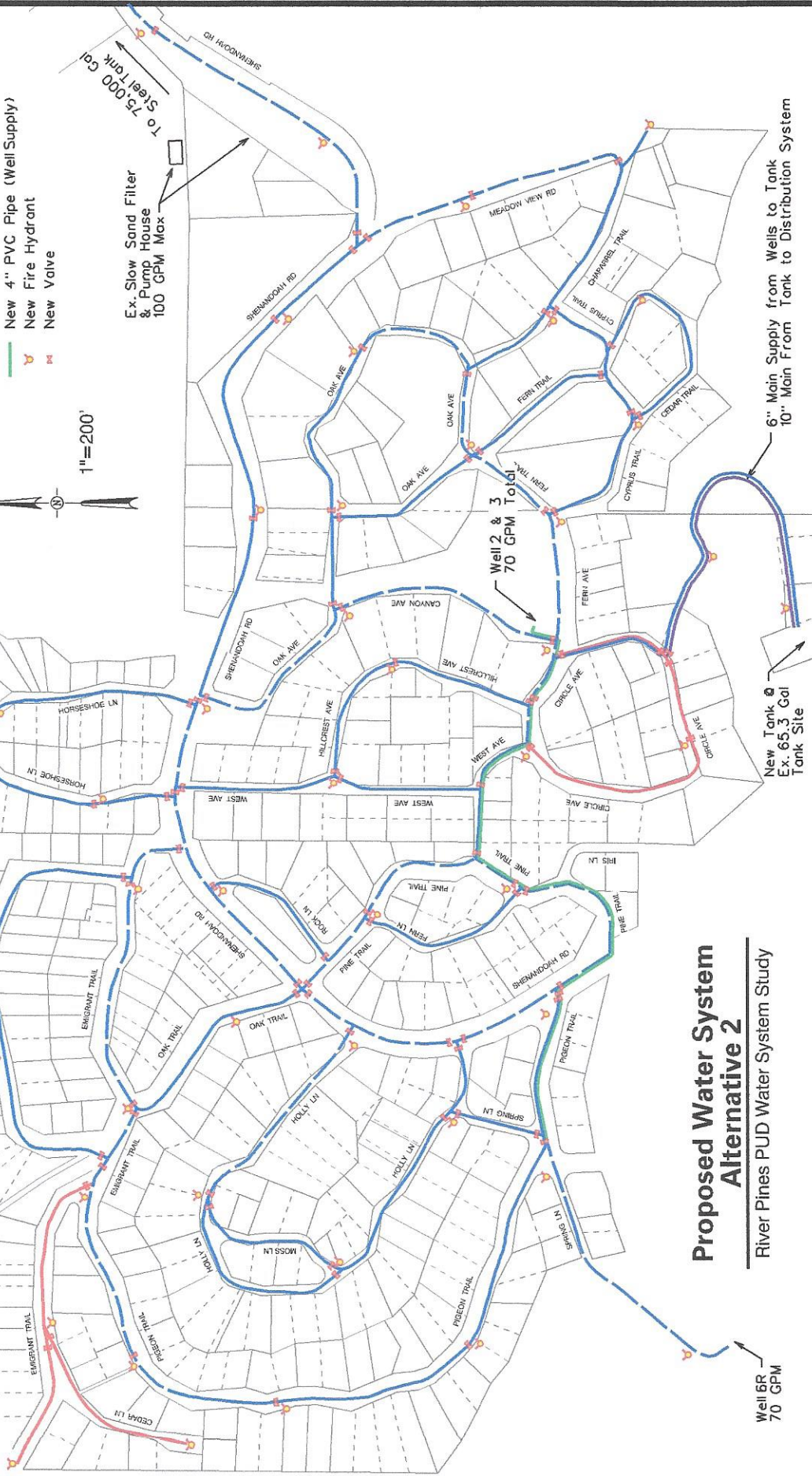
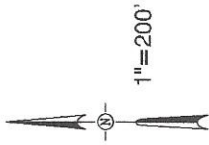
Ex. Slow Sand Filter
& Pump House
100 GPM Max

6" Main Supply from Wells to Tank
10" Main From Tank to Distribution System

To 75,000 Gal
Steel Tank

Legend

- New 10" PVC Pipe (Tank Outlet)
- New 8" PVC Pipe
- New 6" PVC Pipe
- Existing 6" PVC Pipe
- New 4" PVC Pipe (Well Supply)
- New Fire Hydrant
- New Valve



Proposed Water System Alternative 2

River Pines PUD Water System Study

Well 6R
70 GPM

New Tank
Ex. 65.3 Gal
Tank Site

6" Main Supply from Wells to Tank
10" Main From Tank to Distribution System

Ex. Slow Sand Filter
& Pump House
100 GPM Max

Well 2 & 3
70 GPM Total

1" = 200'

To 75,000 Gal
Steel Tank

3.7.2. Sizing

The minimum offsite transmission pipe size shall be eight inches (8"). The minimum distribution pipe size shall be six inches (6"). The minimum pipe size to serve a single fire hydrant shall be a looped (two-way feed) six inch (6") or a single feed eight inch (8").

3.8.3. Line Valves

The distribution system shall be equipped with a sufficient number of line valves so that no single shut-down will result in shutting down a transmission main of more than one thousand feet (1,000'), a distribution main of more than five hundred feet (500') or necessitate the removal from service of length of pipe greater than five hundred feet (500') in other areas. Preferably no more than two fire hydrants shall be removed from service.

5.6.27. Fire Hydrants

Fire hydrants shall be wet barrel type for installations below two thousand feet (2000') in elevation, and meet AWWA Standard C503. Fire hydrants installed above two thousand feet (2000') in elevation shall be dry barrel type and meet AWWA Standard C502. Unless otherwise indicated on the plans or as required by the governing fire district, all hydrants shall have one, four and a half inch (4 ½") outlet and two, two and a half inch (2 ½") outlets with National Standard Fire Hose Threads. Where fire flow requirements exceed three thousand (3,000) GPM, two, four and a half inch (4 ½") outlets and one, two and a half inch (2½") outlet will be required along with special design considerations as determined by the Agency and the governing fire district. All guard posts shall be painted OSHA Safety Yellow, five (5) mils minimum.

Approved Hydrants:

Wet Barrel - Clow 960 Ranger

Dry Barrel - Mueller Centurion

An approved equal to the fire hydrant already accepted by the Agency may be installed provided that the Agency Engineer reviews and approves the fire hydrant in writing. For every one to five (1-5) hydrants installed, and for every five (5) hydrants thereafter, contractor shall provide a complete rebuilding kit including but not limited to all special tools, o-rings, gaskets, seats, seals, caps, shear and clevis pins, bolts, nuts, nozzles washers, safety couplings, bonnets, stems, oils, sleeves, greases and break-a-way spool prior to the installation of the hydrant.

way Patrol (CHP) office space and vehicle inspection bays.

4. Sand/salt storage buildings, storage of sand and salt.

SECTION C102 LOCATION

C102.1 Fire hydrant locations. Fire hydrants shall be provided along required fire apparatus access roads and adjacent public streets.

NUMBER OF SUCH LOCUS.

SECTION C105 DISTRIBUTION OF FIRE HYDRANTS

C105.1 Hydrant spacing. The average spacing between fire hydrants shall not exceed that listed in Table C105.1.

Exception: The fire chief is authorized to accept a deficiency of up to 10 percent where existing fire hydrants provide all or a portion of the required fire hydrant service.

Regardless of the average spacing, fire hydrants shall be located such that all points on streets and access roads adjacent to a building are within the distances listed in Table C105.1.

APPENDIX C

**TABLE C105.1
NUMBER AND DISTRIBUTION OF FIRE HYDRANTS**

FIRE-FLOW REQUIREMENT (gpm)	MINIMUM NUMBER OF HYDRANTS	AVERAGE SPACING BETWEEN HYDRANTS ^{a, b, c} (feet)	MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT ^d
1,750 or less	1	500	250
2,000-2,250	2	450	225
2,500	3	450	225
3,000	3	400	225
3,500-4,000	4	350	210
4,500-5,000	5	300	180
5,500	6	300	180
6,000	6	250	150
6,500-7,000	7	250	150
7,500 or more	8 or more ^e	200	120

For SI: 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

- a. Reduce by 100 feet for dead-end streets or roads.
- b. Where streets are provided with median dividers which cannot be crossed by fire fighters pulling hose lines, or where arterial streets are provided with four or more traffic lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 500 feet on each side of the street and be arranged on an alternating basis up to a fire-flow requirement of 7,000 gallons per minute and 400 feet for higher fire-flow requirements.
- c. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards.
- d. Reduce by 50 feet for dead-end streets or roads.
- e. One hydrant for each 1,000 gallons per minute or fraction thereof.

BRISKI CONTRACT/PAYMENTS

	Contract Was/Payments Were as follows	Contract Should Have Been/ Payments were as follows
Original Contract	282,279.00	296,863.44
	14,584.44 (Well 3R materials/pump)	<u>296,863.44</u>
Pmt. #1	<u>296,863.44</u>	14,105.22
	14,105.22 Well 3R materials/pump	<u>282,758.22</u>
Change Order #1	43,057.26 (\$24,589.26 - Well 2; \$8,468.00 - Bond; \$10,000 - PG&E)	34,421.59 (\$24,589.26 - Well 2; \$8,468.00 - Bond; \$1,364.33 - PG&E)
	<u>325,815.48</u>	<u>317,179.81</u>
Pmt. #2	108,515.90	108,515.90
	<u>217,299.58</u>	<u>208,663.91</u>
Pmt. #3	88,587.50	88,587.50
	<u>128,712.08</u>	<u>120,076.41</u>
Pmt. #4	101,041.05	101,041.05
	<u>27,671.03</u>	<u>19,035.36</u>
Pmt. #5	479.22 Retainage	479.22 Retainage
	<u>15,694.81 Retainage</u>	<u>15,694.81 Retainage</u>
	11,497.00	2,861.33
Change Order #2	<u>18,971.85</u>	<u>2,861.33 Change Order #2</u>
	-7,474.85 Illustrates Overpayment	<u>0.00</u>
	<u>11,497.00 Change Order #2 Should Be</u>	
	0.00	