

Nelson, Dan

From: Marci Pape <Mpape@spfwater.com>
Sent: Tuesday, October 01, 2019 2:14 PM
To: Nelson, Dan
Subject: Permit 65-22945 Review
Attachments: IMG_4994.JPG; Bend, The (PUD).pdf; Lot & Connection Map.jpg; 2015 Connections by Subd Name.xlsx

Hi Dan –

Sorry for the delayed response. I am sending you a few items to hopefully clarify the Subdivision Lot and Block information you were requesting for the Blackhawk on the River Subdivision, permit 65-22945.

First of all, I spoke with Terry regarding the three areas in particular that you pointed out. In the far northeast corner of the subdivision, we agree with you that the lot line should divide Lot 132 with the open space to its north, rather than being one large lot. For the area just west of that one, the northern edge of Lot 117, we've seen conflicting information on that and since the number of connections are not impacted either way, we're fine with whatever you decide on that lot line location.

Finally, for the area just south of the Recreation Center, we discovered that Terry may not have included enough domestic connections in his original licensing exam report. The map you sent us includes 12 narrow lots, but Terry only included three connections in his report. Very preliminary plats indicated that there would only be a total of two to three lots in this area, which was the basis for Terry's recommendation. Since you and I spoke, however, we have looked more closely at the water distribution plans that were submitted with Terry's Ben. Use Field Exam report, as well as available imagery from the period between 2005 and 2015, the permit development period. On Sheet 19 of the plans, dated 5/19/05, reference is made to a total of 12 duplex units being added in this area. As of 2015, four of those duplexes had been built. Additionally, the subdivision plan for The Bend Planned Unit Development, dated 4/11/2007, and the county tax parcel information each show a total of 12 lots in this area.

I am attaching the following items:

- 1) a copy of Sheet 19 of the water distribution plans,
- 2) a copy of the plat for The Bend PUD,
- 3) a map showing the lot, block, and subdivision information in relation to the connections, and
- 4) a table of the connections/lots and their associated Blocks and Subdivisions.

The additional connections would increase the total number of domestic connections from 131 to 140. We understand that this will require a minor adjustment in the total diversion rate and diversion volume required for Permit 65-22945. If you need additional information, let us know.

Thank you,

Marci Pape, P.E. | Project Engineer

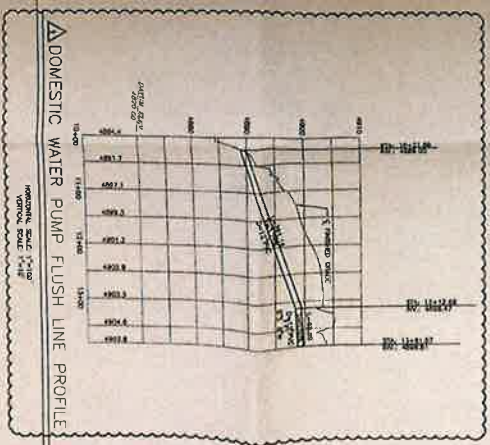
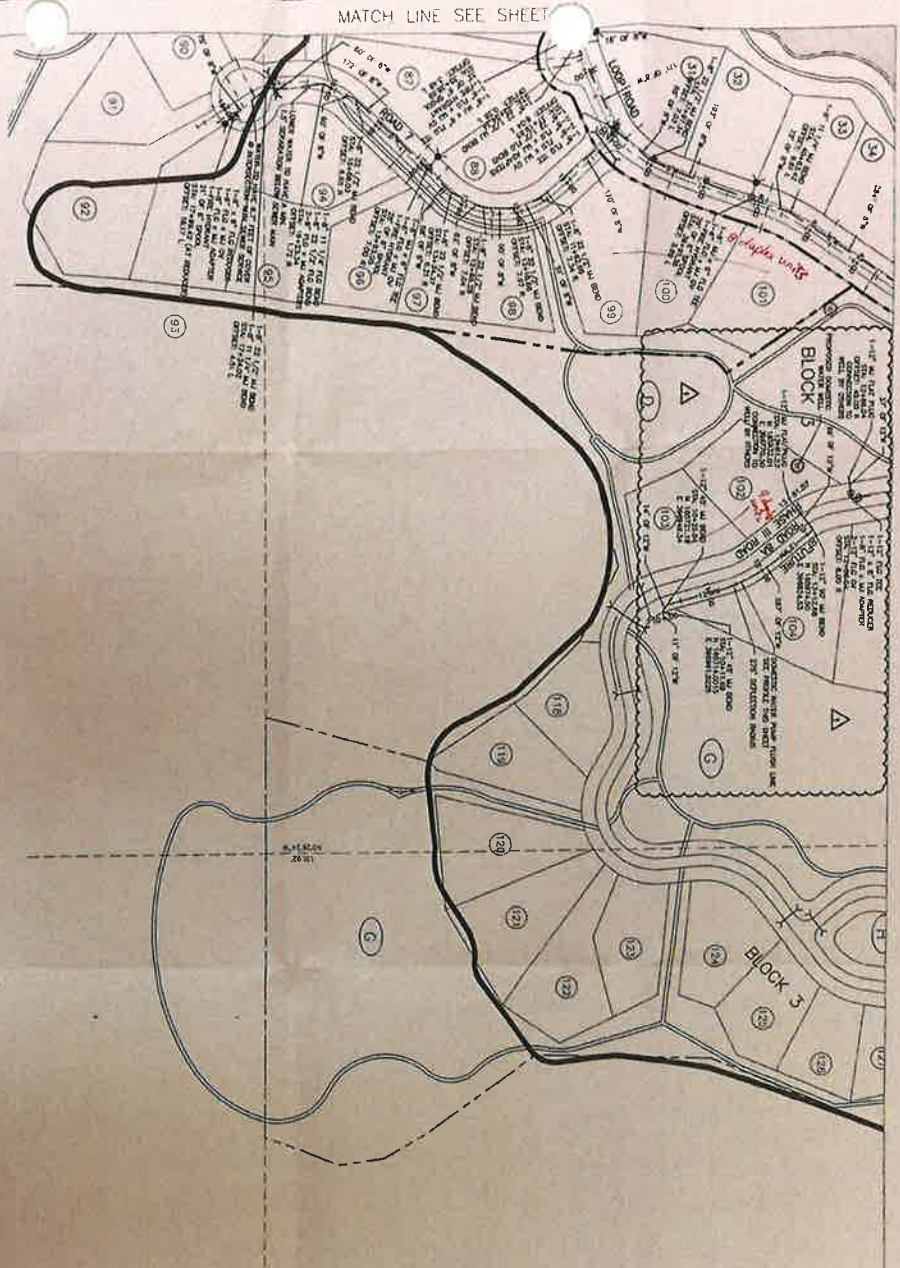
SPF Water Engineering, LLC

300 E Mallard Drive, Suite 350 | Boise, ID 83706

p. 208.383.4140 | f. 208.383.4156 | d. 208.489.2143

e. mpape@spfwater.com | w. www.spfwater.com





LEGEND

- ROAD
- ROAD CENTERLINE
- ROAD RIGHT-OF-WAY
- NEW WATER MAIN, SERVICE, PIPE
- HYDRANT & VALVE
- DOMESTIC WATER PUMP FLUSH LINE
- RECHARGE WATER MAIN
- INTERSECTION WATER MAIN
- NEW 8" SANITARY SEWER MAIN & SERVICE
- NEW 4" PRESSURE SEWER MAIN
- NEW DRAINAGE
- NEW TIE-IN
- ABANDON DITCH/BOUNCE DITCH
- BOUNDARY LINE
- 100' W/100' RADIUS LIMIT
- COMMON LOTS
- RESIDENTIAL LOTS

NOTES

1. ALL STAKING IS BASED ON THE ROADWAY CENTERLINE.
2. STAKING OF PIPE IS BASED ON THE MAINLINE 100' OR MORE W/100' RADIUS LIMIT. ALL THE DIMENSIONS SHALL BE REPORTED AT THE RIGHT-OF-WAY.

BLACKHAWK ON THE RIVER, PHASE I

WATER PLAN

RiverRidge
Engineering
Company
405 W. Myrtle St. Boise, Idaho 83702
Ph. (208) 344-1180, Fax (208) 344-1182

REV. NO.	REVISION DESCRIPTION PREP. AND DATE	BY	DATE	APPROVED DATE
1			8/13/05	



Book 11 Page 28 of Plats, Inst. # 320683

Instrument # 320683
VALLEY COUNTY, CASCADE, IDAHO
2007-04-23 04:27:43 No. of Pages: 1
Recorded for: SECESH ENG
ARCHE N. BANBURY
S-Clerk Recorder Deputy
Rec: 11:00
Book to Print

Quiver	Radius	Length	γ	δ	α	β	γ	δ	α	β
C1	115.00	29.15	14.62	2937.467	3.00	16.23	57.09	16.23	57.09	16.23
C2	135.00	29.15	14.62	1291.397	3.00	16.23	29.07	16.23	29.07	16.23
C3	185.00	44.14	22.31	1340.107	3.00	16.23	44.03	16.23	44.03	16.23
C4	185.00	44.14	22.31	2038.864	3.00	16.23	66.70	16.23	66.70	16.23
C5	185.00	66.84	33.43	2038.864	3.00	16.23	66.70	16.23	66.70	16.23
C6	365.00	105.42	51.85	1832.553	3.00	16.23	105.05	16.23	105.05	16.23
C7	115.00	29.15	14.62	33.342	3.00	16.23	29.07	16.23	29.07	16.23
C8	115.00	29.08	14.61	1074.004	3.00	16.23	29.08	16.23	29.08	16.23
C9	185.00	44.14	22.31	1074.004	3.00	16.23	44.14	16.23	44.14	16.23
C10	185.00	23.33	11.66	713.81	3.00	16.23	23.33	16.23	23.33	16.23
C11	365.00	6.32	3.16	9769.31	3.00	16.23	6.32	16.23	6.32	16.23
C12	365.00	52.81	26.40	51.85	3.00	16.23	52.81	16.23	52.81	16.23

THE COMPACT

Sanitary facilities as required by Idaho Code Title 39, Chapter 13 have been designed based on the State of Idaho, Department of Environmental Quality (DEQ) standard of the design plans and specifications and the conditions imposed on the developer for continued satisfaction of the DEQ. The sanitary facilities are designed to meet or exceed the minimum standards for sewer/public facilities were constructed. Building construction can be allowed with appropriate building permits if drinking water or sewer facilities have those been constructed to constant facilities to meet the other conditions of DEQ, then sanitary restrictions may be reimposed, in accordance with Section 30-1303, Idaho Code, by the Issuance of a permit for drinking water or sewer/public facilities used by the owner. Drinking water or sewer/public facilities must be installed in accordance with applicable codes.

MONUMENT CERTIFICATE

THIS IS TO CERTIFY THAT THIS PLAT IS BEING RECORDED UNDER THE PROVISIONS OF IDAHO CODE 50-1331 THRU 50-1333 AND THAT ALL INTERIOR MONUMENTS WILL BE SET WITHIN ONE YEAR FROM THE RECORDING DATE OF THIS PLAT.

SCALE: 1" = 50'

320684

SECESH ENGINEERING, INC.
McCall, Idaho

SHEET NO. 1 OF 2

THE BEND PLANNED UNIT DEVELOPMENT

A Replat of Block 4 of Blackhawk on the River Subdivision Phase 2 Located in the SE 1/4 of Section 25, T.18N., R.2E., Valley County, Idaho

CERTIFICATE OF OWNER

OF THE PROPERTY HEREINAFTER DESCRIBED:

A parcel of land, Block 4 of Blackhawk on the River Subdivision Phase 2, located in the SE 1/4 of Section 25, T.18N., R.2E., B.M., Valley County, Idaho, more particularly described as:

COMMENCING at the E 1/4 corner of said Section 25 as shown on the plat of said Blackhawk on the River Phase 2, filed in Book 10 of Page 59 of the records of Valley County, Idaho; thence, along the east line of said Section 25,

- S.07°22'13"E., 1974.93 feet; thence, departing said section line,
- S.89°37'47"W., 470.53 feet to the POINT OF BEGINNING; thence,
 - S.55°24'11"E., 73.03 feet; thence,
 - N.79°35'49"E., 45.22 feet; thence,
 - S.62°26'49"E., 208.66 feet; thence,
 - N.88°26'11"E., 66.51 feet; thence,
 - N.51°54'44"E., 77.71 feet; thence,
 - S.38°05'16"E., 73.81 feet to the beginning of a tangent curve; thence,
 - Southeasterly along said curve to the right having a radius of 115.00 feet, an arc length of 47.43 feet, through a central angle of 23°37'46", and a chord bearing and distance of S.28°16'21"E., 47.09 feet; thence, tangent from said curve,
 - S.14°27'30"E., 109.79 feet to the beginning of a tangent curve; thence,
 - Southeasterly along said curve to the left having a radius of 135.00 feet, an arc length of 29.12 feet, through a central angle of 12°21'39", and a chord bearing and distance of S.20°38'20"E., 29.07 feet; thence, departing said right-of-way,
 - S.82°43'25"W., 104.37 feet; thence,
 - S.71°00'14"W., 50.37 feet; thence,
 - S.73°30'11"W., 474.68 feet to the beginning of a non-tangent curve; thence,
 - Northeasterly along said curve to the left having a radius of 185.00 feet, an arc length of 44.14 feet, through a central angle of 13°40'10", and a chord bearing and distance of N.34°23'56"W., 44.03 feet; thence, tangent from said curve,
 - N.41°14'01"W., 75.12 feet to the beginning of a tangent curve; thence,
 - Northeasterly along said curve to the right having a radius of 20.00 feet, an arc length of 27.84 feet, through a central angle of 79°45'58", and a chord bearing and distance of N.12°10'22"W., 25.65 feet to a point on the right-of-way line for Shoshone Star Place; thence,
 - Northeasterly along a curve to the left having a radius of 185.00 feet, an arc length of 66.14 feet, through a central angle of 20°29'00", and a chord bearing and distance of N.28°17'27"E., 65.79 feet; thence, tangent from said curve,
 - N.18°02'57"E., 176.38 feet to the beginning of a tangent curve; thence,
 - Northeasterly along said curve to the right having a radius of 365.00 feet, an arc length of 105.42 feet, through a central angle of 16°32'52", and a chord bearing and distance of N.26°19'23"E., 105.05 feet; thence, tangent from said curve,
 - N.34°35'49"E., 48.66 feet to the POINT OF BEGINNING.

CONTAINING 4.39 Acres, more or less.

That it is the intention of the undersigned to and he does hereby include said land in this plat. All easements and all Utility Easements; all Driveway Easements; all Street Easements and all Access Easements which are depicted on this Plat are hereby declared to be a part of and enjoyment of the members of the Blackhawk on the River Property Owners Association, together with their guests, invitees and assigns, subject to the terms, conditions and restrictions set forth in the Declaration of Covenants, Conditions and Restrictions for Blackhawk on the River Subdivision and Supplemental Declaration of Covenants, Conditions and Restrictions for Blackhawk on the River Subdivision Fractional Ownership Club.

L.O.M., LLC, an Idaho limited liability company

By: B. Caldwell
Brian Caldwell, Manager

ACKNOWLEDGMENT

STATE OF Idaho (ss.)
County of Valley

On this 20th day of April, 2007, before me, Michelle K. Ruble, a Notary Public in and for said State, personally appeared Brian Caldwell, known or identified to me to be the manager of the limited liability company that executed the instrument or the person who executed the instrument on behalf of said corporation, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.



Michelle K. Ruble
NOTARY PUBLIC FOR IDAHO
My Commission Expires:
1/31/2013

APPROVAL OF THE BOARD OF VALLEY COUNTY COMMISSIONERS

ACCEPTED AND APPROVED THIS 23 DAY OF April, 2007, BY THE BOARD OF COUNTY COMMISSIONERS OF VALLEY COUNTY, IDAHO.

[Signature]
CHAIRMAN

APPROVAL OF

THE VALLEY COUNTY PLANNING AND ZONING COMMISSION
ACCEPTED AND APPROVED THIS 5 DAY OF March, 2007, BY THE VALLEY COUNTY PLANNING AND ZONING COMMISSION.

Harry M. Steths
CHAIRMAN

CERTIFICATE OF COUNTY SURVEYOR

I, JOHN RUSSELL, REGISTERED PROFESSIONAL LAND SURVEYOR FOR VALLEY COUNTY, IDAHO, DO HEREBY CERTIFY THAT I HAVE EXAMINED THIS PLAT AND THAT IT COMPLIES WITH THE STATE OF IDAHO CODE RELATIVE TO PLATS AND SURVEYS.



John Russell
COUNTY SURVEYOR

CERTIFICATE OF SURVEYOR

I, RALPH MILLER, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR IN THE STATE OF IDAHO, AND THAT THIS PLAT AS DESCRIBED IN THE "CERTIFICATE OF OWNERS" WAS DRAWN FROM THE FIELD NOTES OF A SURVEY MADE ON THE GROUND UNDER MY DIRECT SUPERVISION AND ACCURATELY REPRESENTS THE POINTS, PLATED HEREON, AND IS IN CONFORMITY WITH THE STATE OF IDAHO CODE RELATING TO PLATS AND SURVEYS.



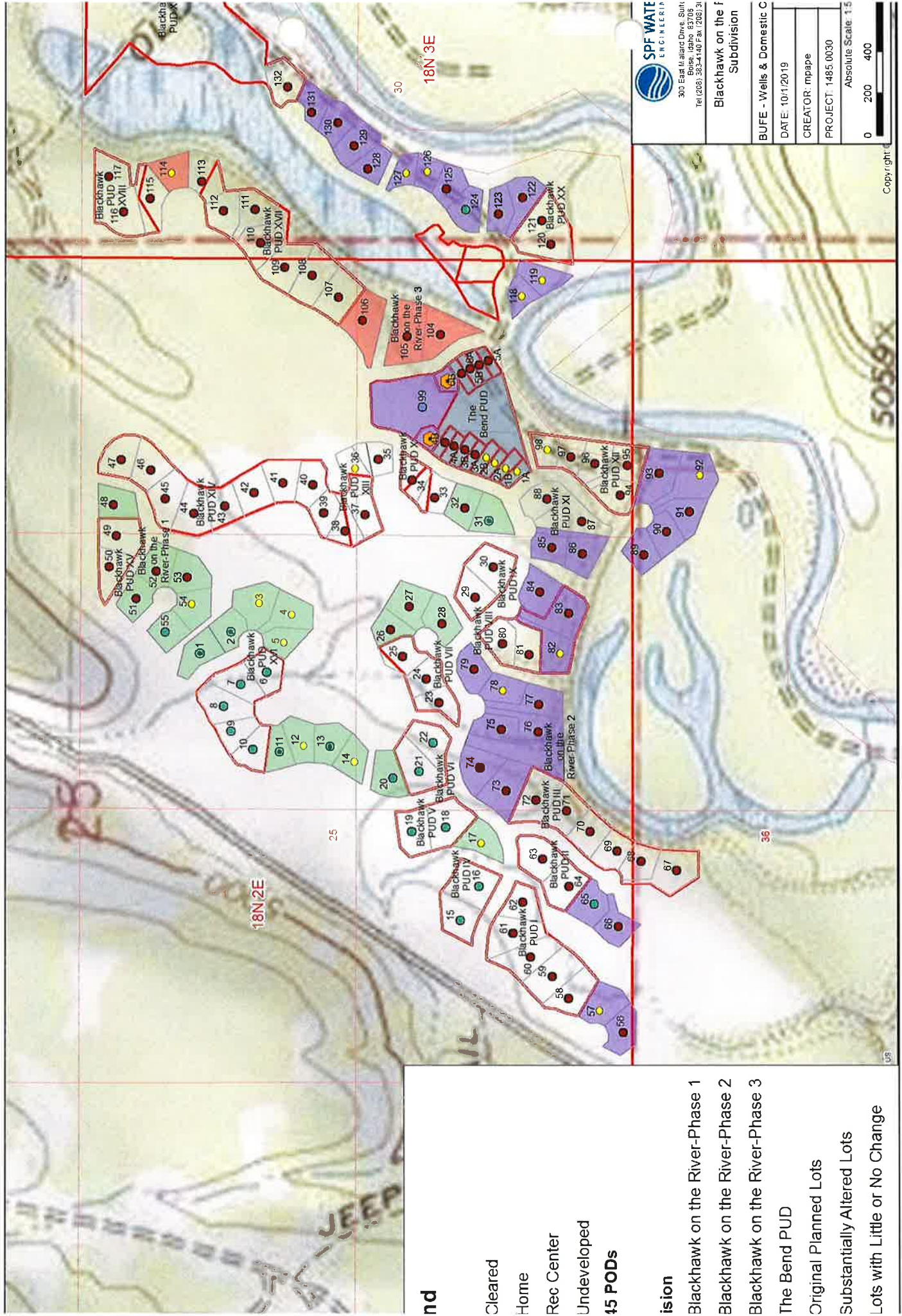
RALPH MILLER
IDAHO NO. 6577

CERTIFICATE OF COUNTY TREASURER

I, THE UNDERSIGNED, COUNTY TREASURER IN AND FOR THE COUNTY OF VALLEY, STATE OF IDAHO, PER THE REQUIREMENTS OF I.C. 50-1308, DO HEREBY CERTIFY THAT ANY AND ALL CURRENT AND/OR DELINQUENT COUNTY PROPERTY TAXES FOR THE PROPERTY INCLUDED IN THIS SUBDIVISION HAVE BEEN PAID IN FULL. THIS CERTIFICATION IS VALID FOR THE NEXT THIRTY (30) DAYS ONLY.

DATE 4-18-07
[Signature]
COUNTY TREASURER

SECESH ENGINEERING, INC.
McCall, Idaho
SHEET NO. 2 OF 2





SPF WATE
ENGINEERING

300 East Main Street, Suite 100
Westfield, WI 53091
Tel (262) 385-1400 Fax (262) 385-1401

Blackhawk on the f

Subdivision

BUFE - Wells & Domestic C

DATE: 10/1/2019

CREATOR: mpape

PROJECT: 1485.0030

Absolute Scale: 1:5

0

200

400

Copyright ©

nd

Cleared

Home

Rec Center

Undeveloped

15 PODs

ision

Blackhawk on the River-Phase 1

Blackhawk on the River-Phase 2

Blackhawk on the River-Phase 3

The Bend PUD

Original Planned Lots

Substantially Altered Lots

Lots with Little or No Change

Blackhawk on the River Connections as of 2015

Id	Status	Lot No.	Block	Subdivision
0	Cleared	1	1	Blackhawk on the River-Phase 1
0	Cleared	2	1	Blackhawk on the River-Phase 1
0	Home	3	1	Blackhawk on the River-Phase 1
0	Home	4	1	Blackhawk on the River-Phase 1
0	Home	5	1	Blackhawk on the River-Phase 1
0	Cleared	11	1	Blackhawk on the River-Phase 1
0	Home	12	1	Blackhawk on the River-Phase 1
0	Cleared	13	1	Blackhawk on the River-Phase 1
0	Home	14	1	Blackhawk on the River-Phase 1
0	Home	17	2	Blackhawk on the River-Phase 1
0	Cleared	20	1	Blackhawk on the River-Phase 1
0	Undeveloped	26	1	Blackhawk on the River-Phase 1
0	Undeveloped	27	1	Blackhawk on the River-Phase 1
0	Undeveloped	28	1	Blackhawk on the River-Phase 1
0	Cleared	31	1	Blackhawk on the River-Phase 1
0	Undeveloped	32	1	Blackhawk on the River-Phase 1
0	Undeveloped	48	1	Blackhawk on the River-Phase 1
0	Undeveloped	51	1	Blackhawk on the River-Phase 1
0	Undeveloped	52	1	Blackhawk on the River-Phase 1
0	Undeveloped	53	1	Blackhawk on the River-Phase 1
0	Home	54	1	Blackhawk on the River-Phase 1
0	Cleared	55	1	Blackhawk on the River-Phase 1
0	Undeveloped	56	3	Blackhawk on the River-Phase 2
0	Home	57	3	Blackhawk on the River-Phase 2
0	Cleared	65	3	Blackhawk on the River-Phase 2
0	Undeveloped	66	3	Blackhawk on the River-Phase 2
0	Undeveloped	73	3	Blackhawk on the River-Phase 2
0	Undeveloped	74	3	Blackhawk on the River-Phase 2
0	Undeveloped	75	3	Blackhawk on the River-Phase 2
0	Undeveloped	76	3	Blackhawk on the River-Phase 2
0	Undeveloped	77	3	Blackhawk on the River-Phase 2
0	Home	78	3	Blackhawk on the River-Phase 2
0	Undeveloped	79	3	Blackhawk on the River-Phase 2
0	Home	82	3	Blackhawk on the River-Phase 2
0	Undeveloped	83	3	Blackhawk on the River-Phase 2
0	Undeveloped	84	3	Blackhawk on the River-Phase 2
0	Undeveloped	85	3	Blackhawk on the River-Phase 2
0	Undeveloped	86	3	Blackhawk on the River-Phase 2
0	Undeveloped	89	3	Blackhawk on the River-Phase 2
0	Undeveloped	90	3	Blackhawk on the River-Phase 2
0	Undeveloped	91	3	Blackhawk on the River-Phase 2
0	Home	92	3	Blackhawk on the River-Phase 2
0	Undeveloped	93	3	Blackhawk on the River-Phase 2

Blackhawk on the River Connections as of 2015

Id	Status	Lot No.	Block	Subdivision
0	Rec Center	99	3	Blackhawk on the River-Phase 2
0	Home	118	3	Blackhawk on the River-Phase 2
0	Home	119	3	Blackhawk on the River-Phase 2
0	Undeveloped	122	3	Blackhawk on the River-Phase 2
0	Undeveloped	123	3	Blackhawk on the River-Phase 2
0	Cleared	124	3	Blackhawk on the River-Phase 2
0	Undeveloped	125	3	Blackhawk on the River-Phase 2
0	Home	126	3	Blackhawk on the River-Phase 2
0	Home	127	3	Blackhawk on the River-Phase 2
0	Undeveloped	128	3	Blackhawk on the River-Phase 2
0	Undeveloped	129	3	Blackhawk on the River-Phase 2
0	Undeveloped	130	3	Blackhawk on the River-Phase 2
0	Undeveloped	131	3	Blackhawk on the River-Phase 2
0	Undeveloped	104	6	Blackhawk on the River-Phase 3
0	Undeveloped	105	6	Blackhawk on the River-Phase 3
0	Undeveloped	106	6	Blackhawk on the River-Phase 3
0	Home	114	6	Blackhawk on the River-Phase 3
0	Undeveloped	58-62	3	Blackhawk PUD I - 5 connections
0	Undeveloped	63-64	3	Blackhawk PUD II - 2 connections
0	Undeveloped	67-72	3	Blackhawk PUD III - 6 connections
0	Cleared	15-16	2	Blackhawk PUD IV - 2 connections
0	Cleared	18-19	2	Blackhawk PUD V - 2 connections
0	Cleared	21-22	1	Blackhawk PUD VI - 2 connections
0	Undeveloped	23-25	1	Blackhawk PUD VII - 3 connections
0	Undeveloped	80-81	3	Blackhawk PUD VIII - 2 connections
0	Undeveloped	29-30	1	Blackhawk PUD IX - 2 connections
0	Undeveloped	33-34	1	Blackhawk PUD X - 2 connections
0	Undeveloped	87-88	3	Blackhawk PUD XI - 2 connections
0	Undeveloped	94-98	3	Blackhawk PUD XII - 5 connections
0	Undeveloped	35-37	1	Blackhawk PUD XIII - 3 connection
0	Undeveloped	38-47	1	Blackhawk PUD XIV - 10 connections
0	Undeveloped	49-50	1	Blackhawk PUD XV - 2 connections
0	Cleared	6-10	1	Blackhawk PUD XVI - 5 connections
0	Undeveloped	107-113	6	Blackhawk PUD XVII - 7 connections
0	Undeveloped	115-117	6	Blackhawk PUD XVIII - 3 connections
0	Undeveloped	132	5	Blackhawk PUD XIX - 1 connection
0	Undeveloped	120-121	3	Blackhawk PUD XX - 2 connections
0	Home	1A-6B	N/A	The Bend PUD - 12 connections

Total number of connections = 140

Nelson, Dan

From: Nelson, Dan
Sent: Monday, September 09, 2019 9:27 AM
To: 'Terry Scanlan'
Subject: RE: Permit 65-22945
Attachments: Blackhawk PUD.pdf

Hi Terry,

I was working on recreating the domestic shape file you provided, and I discovered that there are parcels you covered in your maps that didn't match the tax parcel lines in our database. I pulled the plat maps from the county and I have attached a copy of the latest corrected plat maps dated 2/11/15. I don't know if you had the corrected plat maps when you did your shape file for the domestic use. The attached plat maps removes several lots and matches our tax parcel information in our mapping system. Several of the parcels you included were removed in this corrected plat map, and were marked as "Future Development." If these parcels are still scheduled for future development, then I would assume that they were not stubbed into the water system and they shouldn't be included in the place of use for the domestic portion of this permit.

Please look this over and let me know what you think. You have been involved in this project throughout quite a bit of the development, so I wanted to check this out with you before I spent any more time recreating the shape files. This may also reduce the number of domestic uses that can be applied to this permit.

Thank you.

Dan Nelson

From: Terry Scanlan [mailto:TScanlan@spfwater.com]
Sent: Friday, September 06, 2019 4:38 PM
To: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Cc: Sukow, Jennifer <Jennifer.Sukow@idwr.idaho.gov>
Subject: RE: Permit 65-22945

Dan – I am good with all of your findings. Please proceed. Thanks.

Jennifer – Hope you enjoyed reviewing you old design!

Terry

From: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Sent: Friday, September 6, 2019 11:05 AM
To: Terry Scanlan <TScanlan@spfwater.com>
Cc: Sukow, Jennifer <Jennifer.Sukow@idwr.idaho.gov>
Subject: Permit 65-22945

Hello Terry,

I have included a spreadsheet with a map pasted into it. It is my calculations on the locations of the acres irrigated. There are two issues that I found that I wanted to check with you first before I moved forward with licensing.

- 1.) When I went to recreate the shape files for this permit, I used the 2015 aerial imagery we have available at our office to determine the acres irrigated. I tried to make the shape files as accurately as I could to ensure that no one had to reduce the acres that they were irrigating in 2015. When I created my shape files, I found a total of 10.4 acres actually irrigated in this subdivision in 2015. As I went through the later years, I did see that some of the acres had been reduced, but proof was due in 2015, so I went totally with those acres. The difference was that some of the homeowners were irrigating ground outside of their tax parcel, so I counted those acres as well. I determined that 10.4 acres not 9.2 acres were actually irrigated in 2015. I know this sounds silly, but are you opposed to me recommending 10.4 acres?
- 2.) The next issue is that some of the parcels being irrigated are in the old stream channel. The old stream channel is not included in the Government Lots. This relies on an interpretation of the location of the government lot by the County and by our agency. Therefore, you will notice in the spreadsheet that there are two acre designations for the same 40 acre tract. One acre designation is in the Government Lot and the other is outside the Government Lot, but both are in the same 40 acre tract. I have highlighted these in yellow to show you what I am talking about. For Example, You will see 0.3 acres in the NENE of Section 36 and 0.5 acres in Government Lot 2 (NENE) of Section 36. This will allow us to create a place of use in our database that matches the shape files created in our mapping program. If you can provide evidence that Valley County has determined through a survey that all of the parcels are within the Government Lot, I can change our records to reflect that. Please let me know what you think, and if you can supply the county survey information that shows that all of the parcels are in the Government Lots and not in the old streambed

I also wanted to let you know that I spoke with Jennifer Sukow about the two pumps in the same well. Between the two of us, I think we have figured out. When I did a double check of your calculations based on what Jennifer told me, I came up with a total diversion rate of 4.52 cfs. Which will not create a need to have a combined limitation condition with water right 65-22960. However, once permit 65-23042 is field examined, I would recommend that you measure all three pumps. The main reason we can avoid a measurement of the system with all three wells operating this time, is because the 40 Hp pump and the 15 Hp pump can provide adequate water at 42 psi for both rights without the fire protection use. If the system gets to the point where the 100 Hp pump is needed to meet normal demand for the non-fire protection uses, then we will need to measure all three wells. I would recommend that you advise the permit holder to be prepared to measure all three pumps for future field examinations on existing and future permits.

Please let me know if you have any issues with the irrigation use, and I will continue to move forward with the licensing of the permit.

Daniel Nelson
Water Right Analyst 3
Idaho Department of Water Resources
Telephone (208) 287-4856
Fax (208) 287-6700 (attn: Dan Nelson)

Please look this over and let me know what you think. You have been involved in this project throughout quite a bit of the development, so I wanted to check this out with you before I spent any more time recreating the shape files. This may also reduce the number of domestic uses that can be applied to this permit.

Thank you.

Dan Nelson

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Sent: Friday, September 06, 2019 4:38 PM
To: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Cc: Sukow, Jennifer <Jennifer.Sukow@idwr.idaho.gov>
Subject: RE: Permit 65-22945

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From: Nelson, Dan <Dan.Nelson@idwr.idaho.gov>
Sent: Friday, September 6, 2019 11:05 AM
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Cc: Sukow, Jennifer <Jennifer.Sukow@idwr.idaho.gov>
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I have included a spreadsheet with a map pasted into it. It is my calculations on the locations of the acres irrigated. There are two issues that I found that I wanted to check with you first before I moved forward with licensing.

- 1.) When I went to recreate the shape files for this permit, I used the 2015 aerial imagery we have available at our office to determine the acres irrigated. I tried to make the shape files as accurately as I could to ensure that no one had to reduce the acres that they were irrigating in 2015. When I created my shape files, I found a total of 10.4 acres actually irrigated in this subdivision in 2015. As I went through the later years, I did see that some of the acres had been reduced, but proof was due in 2015, so I went totally with those acres. The difference was that some of the homeowners were irrigating ground outside of their tax parcel, so I counted those acres as well. I determined that 10.4 acres not 9.2 acres were actually irrigated in 2015. I know this sounds silly, but are you opposed to me recommending 10.4 acres?
- 2.) The next issue is that some of the parcels being irrigated are in the old stream channel. The old stream channel is not included in the Government Lots. This relies on an interpretation of the location of the government lot by the County and by our agency. Therefore, you will notice in the spreadsheet that there are two acre designations for the same 40 acre tract. One acre designation is in the Government Lot and the other is outside the Government Lot, but both are in the same 40 acre tract. I have highlighted these in yellow to show you what I am talking about. For Example, You will see 0.3 acres in the NENE of Section 36 and 0.5 acres in Government Lot 2 (NENE) of Section 36. This will allow us to create a place of use in our database that matches the shape files created in our mapping program. If you can provide evidence that Valley County has determined through a survey that all of

the parcels are within the Government Lot, I can change our records to reflect that. Please let me know what you think, and if you can supply the county survey information that shows that all of the parcels are in the Government Lots and not in the old streambed

I also wanted to let you know that I spoke with Jennifer Sukow about the two pumps in the same well. Between the two of us, I think we have figured out. When I did a double check of your calculations based on what Jennifer told me, I came up with a total diversion rate of 4.52 cfs. Which will not create a need to have a combined limitation condition with water right 65-22960. However, once permit 65-23042 is field examined, I would recommend that you measure all three pumps. The main reason we can avoid a measurement of the system with all three wells operating this time, is because the 40 Hp pump and the 15 Hp pump can provide adequate water at 42 psi for both rights without the fire protection use. If the system gets to the point where the 100 Hp pump is needed to meet normal demand for the non-fire protection uses, then we will need to measure all three wells. I would recommend that you advise the permit holder to be prepared to measure all three pumps for future field examinations on existing and future permits.

Please let me know if you have any issues with the irrigation use, and I will continue to move forward with the licensing of the permit.

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