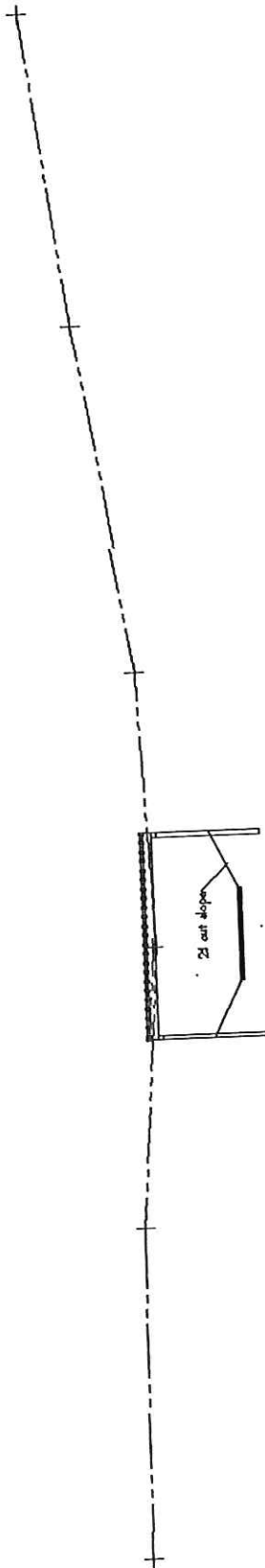
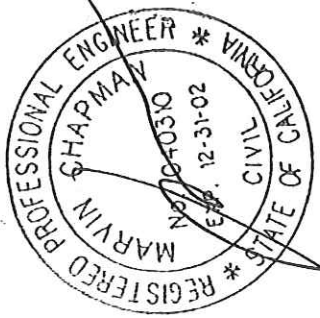



CE CHAPMAN ENGINEERING RCE # 040310 P.O. Box 1123 ARCATA, CA 95521 707-826-9412	Plan view site	
	OWNER: Nash Ranch Rd Association	ADDRESS: Philo, CA
SCALE: 1" = 4'	DATE: 3-16-01	APPROVED BY: MARVIN CHAPMAN
CADD FILE: NASHBRDG	DRAWN BY:	SHEET 1 OF 6

oic/jeu

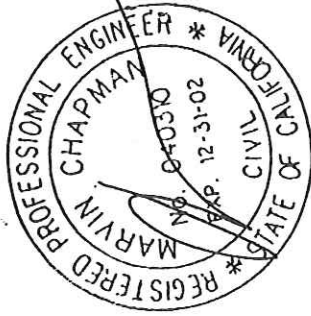
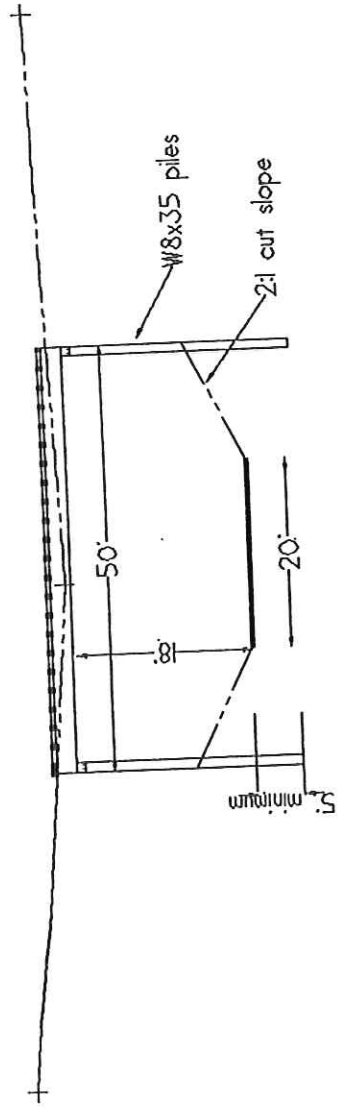


Section through bridge centerline

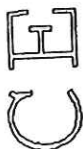


		Cross section Road & Bridge	
		OWNER: Nash Ranch Rd Association	ADDRESS: Philo. CA
CHAPMAN ENGINEERING RCE # 040310 P.O. Box 1123 ARCATA, CA 95521S21 707-826-9412	SCALE: 1" = 4'	DATE: 3-16-01	APPROVED BY: MARVIN CHAPMAN
	CADD FILE: NASHBRDG	DRAWN BY:	SHEET 2 OF 6

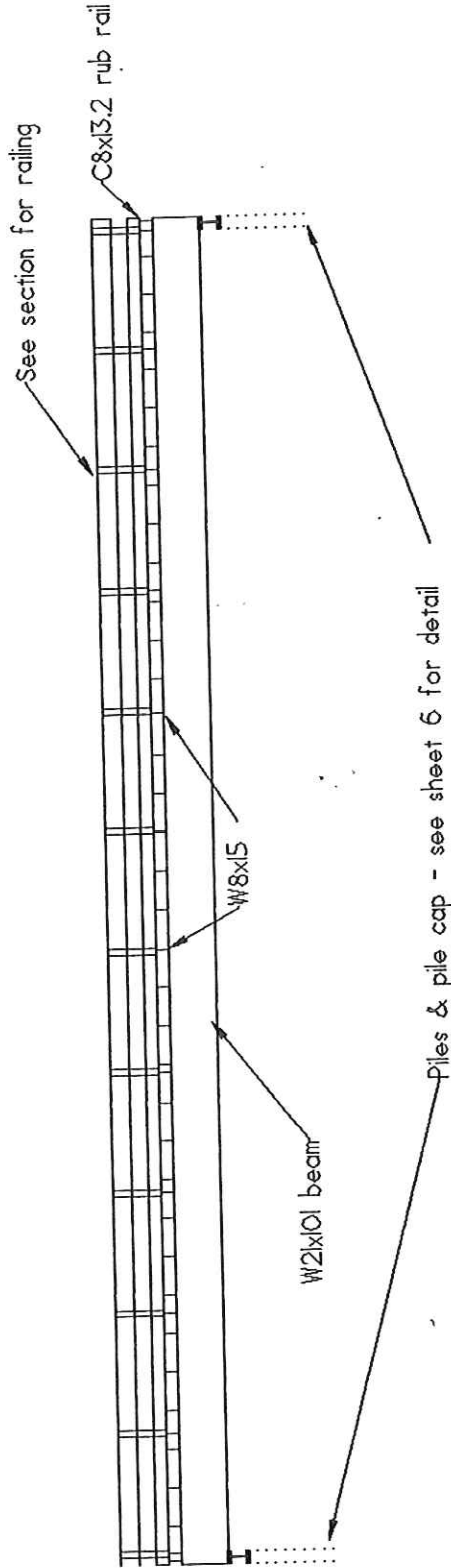
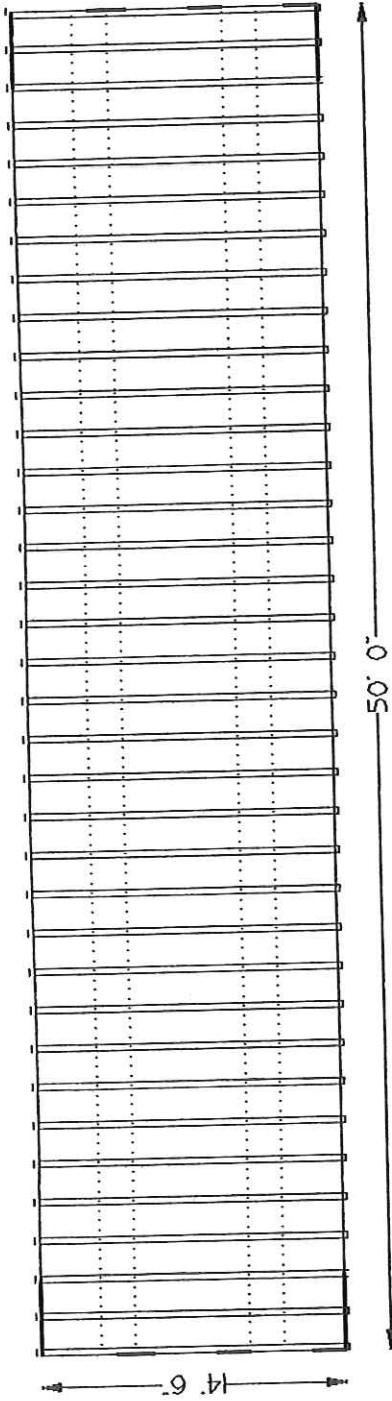
on spec



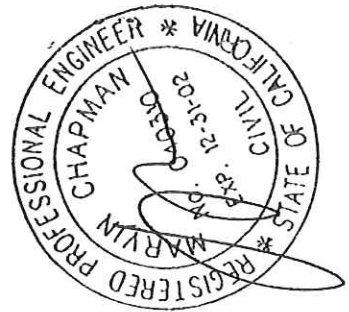
Section through creek centerline

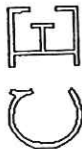
 <p>CHAPMAN ENGINEERING RCE # 04030 P.O. Box 1123 ARCATA, CA 95521 707-826-9412</p>		Cross section Bridge	
		OWNER: Nash Ranch Rd Association	ADDRESS: Philo. CA
SCALE: 1" = 4'	DATE: 3-16-01	APPROVED BY: MARVIN CHAPMAN	
CADD FILE: NASHBRDG	DRAWN BY:		SHEET 3 OF 6

OK gaw

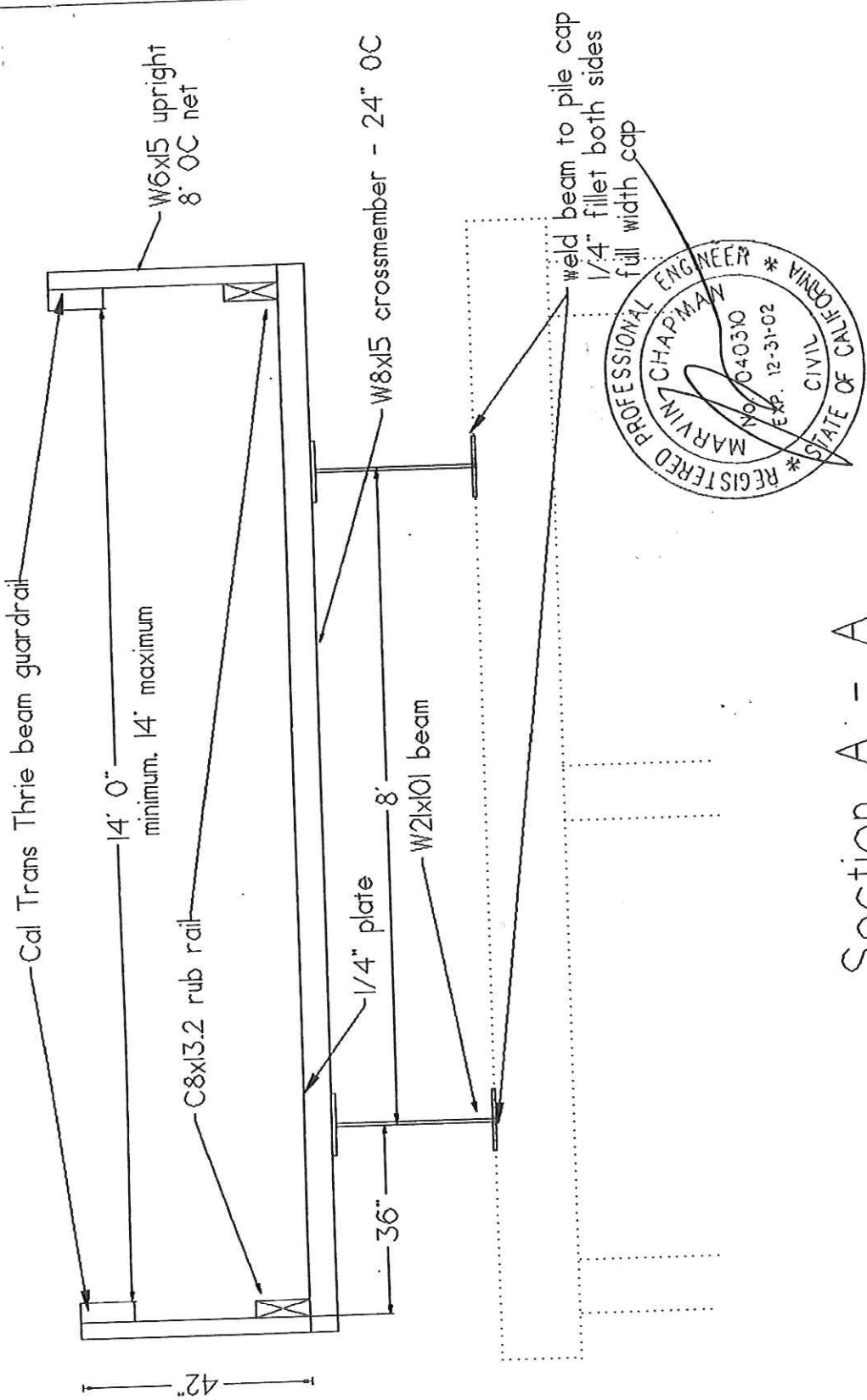


Piles & pile cap - see sheet 6 for detail

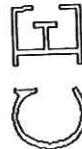


 CHAPMAN ENGINEERING RCE # 040310 P.O. Box 1123 ARCATA, CA 95521 707-826-9412	Plan & Section bridge	
	OWNER: Nash Ranch Rd Association	ADDRESS: Philo, CA
	SCALE: 1" = 10'	DATE: 4-09-01
	APPROVED BY: MARVIN CHAPMAN	DRAWN BY: SHEET 4 OF 6
	CADD FILE: NASHBRDG	

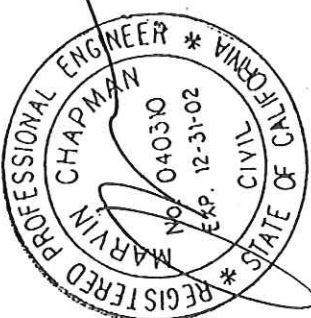
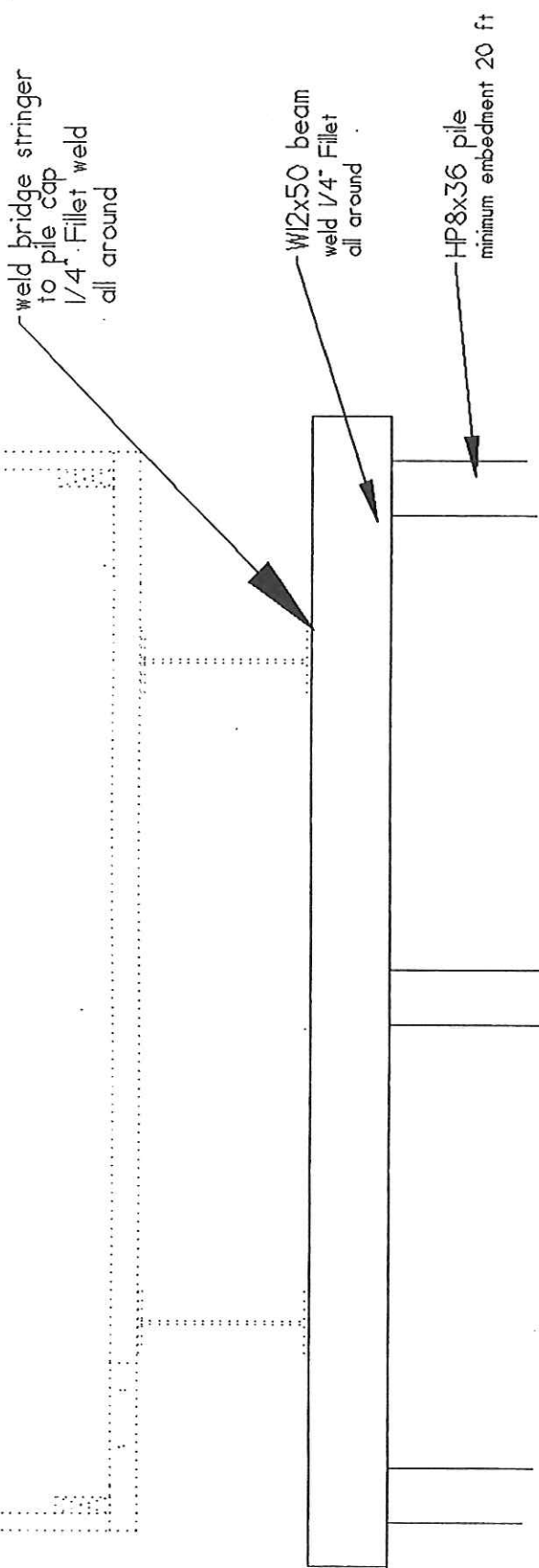
OK gas



Section A - A

 <p>CHAPMAN ENGINEERING RCE # 040310 P.O. Box 1123 ARCATA, CA 95521 707-826-9412</p>	bridge section	
	OWNER: Nash Ranch Rd Association	ADDRESS: Philo, CA
SCALE: 1" = 2'	DATE: 4-09-01	APPROVED BY: MARVIN CHAPMAN
CADD FILE: NASHBRDG	DRAWN BY:	SHEET 5 OF 6

OK gms



Section B - B

Notes

1. All steel beams A992
 2. All bolts A325
 3. All other steel A36
 4. Piles driven to 30 ton bearing as per Cal Trans Standard Specifications section 49-1.08
 5. All welding in accordance with AWS standards
 6. All welding of pile caps to stress less than 50% of yield
 7. All pile cap welding under periodic inspection
 8. Field welding of beams under continuous inspection
- All pile cap welding under periodic inspection
 Welding beams to pile caps less than 50% of yield.
 Periodic inspection

 CHAPMAN ENGINEERS P.O. Box 1133 Arcata, CA 95521 707 825-1442	Pile & Pile cap layout
	OWNER: Nash Ranch Rd Association
	SCALE: 1" = 20' ADDRESS: Philo, CA
	DATE: 10-1-01 APPROVED BY: MARVIN CHAPMAN
CAD FILE: NASHBRDG	DRAWN BY: M. Chapman
SHEET 6 OF 6	

Oct 2001

Structural Calculations

Owner Nash Ranch Road Association

Address P.O. box 500
Philo, CA

Date September 26, 2001

By Marvin Chapman
Chapman Engineering
P.O. Box 1123
Arcata, CA 95518
707-826-9412

Total pages including cover 3



OK
gaw

Under hung bridge design

Design load - HS20 80 K

Assume W8 x15 crossmembers - 13.33 ft long

Assume 1/4" plate deck - 12' wide

Dead load = 217.35 lb/LF

Dead load moment = 67921.88 lb ft/LF

Design crossmember

Assume loads applied at 2' from end = 16000 lb

Load distance = 2 ft

Main rail spacing = 8 ft

moment = 24000 lb ft

Allowable F(b) = 27500 PSI

Minimum S = 10.5

Actual S W8x15 = 11.8 OK

Design cross member to support bridge guardrail

Point load at 3 ft = 5000 lb

Moment at end of beam = 15000 lb ft

Add moment from wheel load applied at end

Assume wheel load applied 2 ft beyond support beam

wheel load = 16000 lb

moment = 32000

Total moment applied to end of beam = 47000 lb ft

allowable stress = 27500 PSI

minimum S = 20.5

Use W8x24 crossmember - S = 20.9 ok

OK
gaw

DESIGN BY LENGTH

Try W21 x 101 A 992 beams

Length = 50 ft

Width = 14 ft

dead load moment beams = 31562.5

Live load moment = 627900 lb ft

Max moment = 727384 lb ft

Allowable stress = 20000 PSI

Minimum S = 218.22

Actual S = 227 OK

OK
gaw

DANIEL STEEL & MACHINE WORKS

160 BRUSH STREET
UKIAH, CALIFORNIA 95482-3432

March 6, 2002

Mr. Steve Williams
Nash Road Association
PO Box 361
Philo, Ca. 95466

Dear Mr. Williams,

Daniel Steel is pleased to quote on the Nash Ranch Road bridge, which would be 50' Long by 18' Wide. The price includes all sales taxes, freight, field installation, crane and equipment needed, and bridge fabrication.

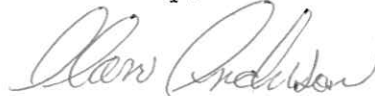
The total price is \$33,642.00. Terms are \$18,500 to order material and fabricate bridge and \$9382.00 when the bridge is delivered to job site. The balance of \$5760.00 due when the installation is complete.

Daniel Steel & Machine Works is not responsible for any dirt work, approaches, or chip seal on the deck surface.

The bridge will be primer painted and include hand rails and rub rails.

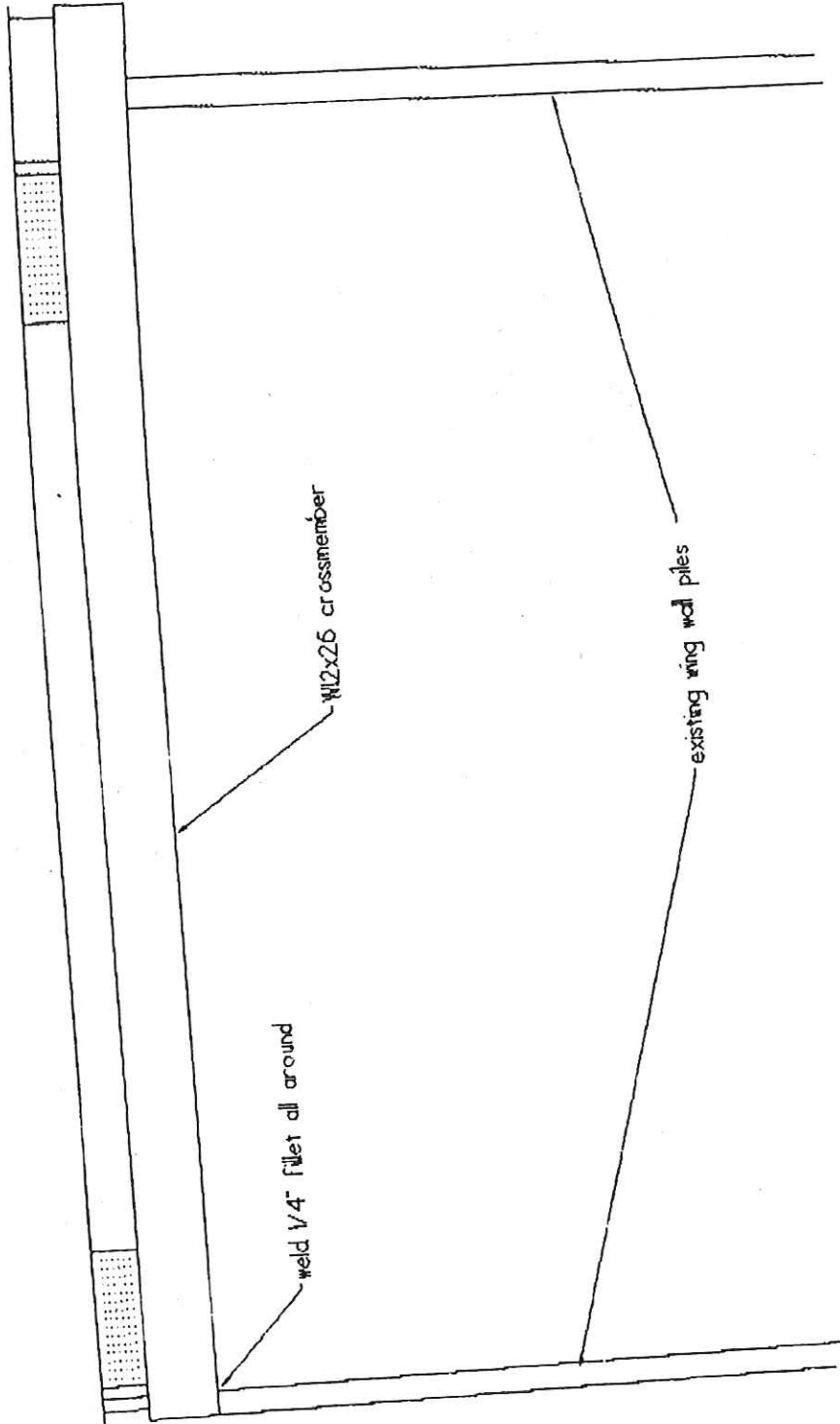
Thank you.

Sincerely,



Alan Anderson

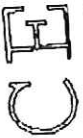
AA:ss

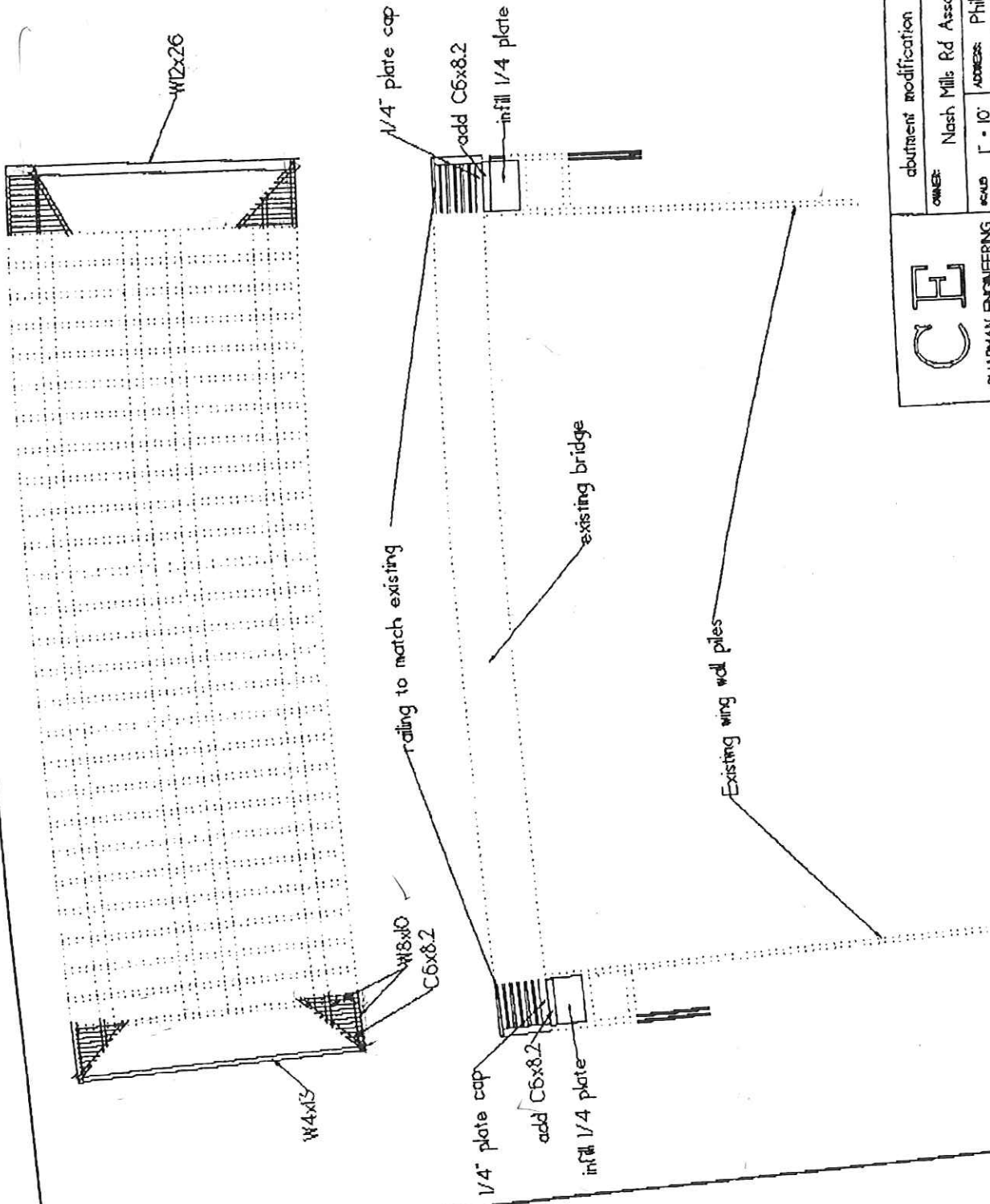


W12x26 crossmember

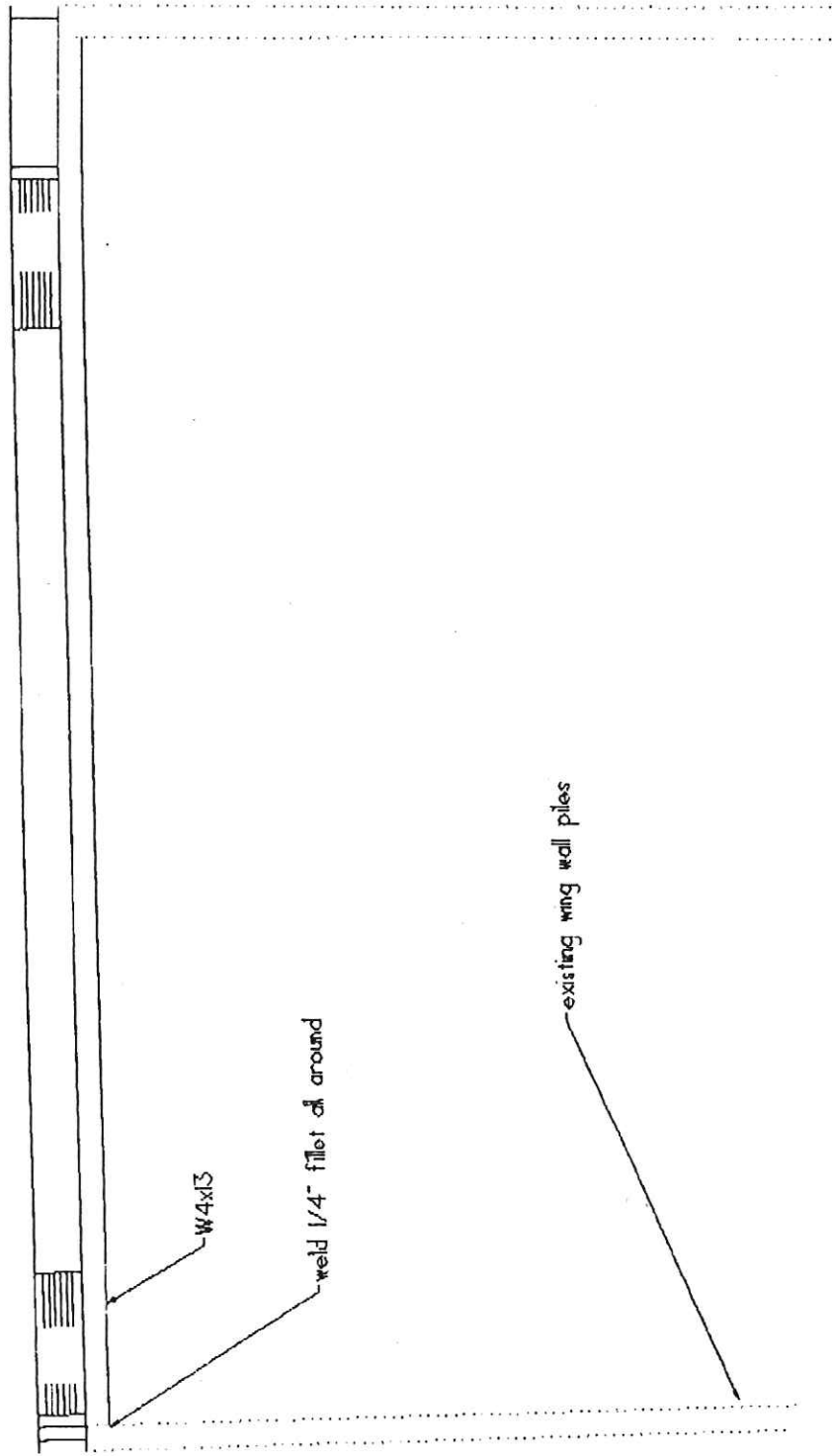
weld V/4" fillet all around

existing wing wal piles

		abutment modification	
		OWNER Nash Mills Rd Association	
CHAPMAN ENGINEERING P.O. # 04030 P.O. Box 1123 ARCATA, CA 95521 707-826-9412		SCALE 1" = 10'	ADDRESS Philo, CA
		DATE 03-14-02	APPROVED BY: MARVIN CHAPMAN
		CADD FILE NASHFVAL	DRAWN BY:
			SHEET 3 OF 3



CE		abutment modification	
CHAPMAN ENGINEERING		OWNER: Nash Mills Rd Association	ADDRESS: Philo. CA
RCE • 040310 P.O. Box 1123 ARCATA, CA 95521 707-826-9412		SCALE: 1" = 10'	DATE: 03-14-02
		APPROVED BY: MARVIN CHAPMAN	DRAWN BY:
		PROJECT: NASHFVAL	SHEET 1 OF 3



CE		Abutment modification	
CHAPMAN ENGINEERING		OWNER:	Nash Mills Rd Association
RCE # 040330		SEAL:	1 - 10'
P.O. Box 1123		DATE:	03-14-02
ARCATA, CA 95521		APPROVED BY:	MARVIN CHAPMAN
707-826-9412		CADD FILE:	NASHMIL
		DRAWN BY:	
			SHEET 2 OF 3

Chapman Engineering
P.O. Box 1123
Arcata, CA 95518
707-826-9412

Date April 14, 2002

On account with: Nash Mill Road Assn

For Bridge design

Date	hr		Rate	Total
02/14/01	5	Field review site	\$75.00	\$375.00
02/28/01	5	Travel to site	\$75.00	\$375.00
03/01/01	4	Survey site	\$100.00	\$400.00
03/01/01	5	Travel to site	\$75.00	\$375.00
03/01/01	2	consult with Building official	\$75.00	\$150.00
03/04/01	4	Plot and calculate site	\$75.00	\$300.00
03/16/01	1	Prepare submittal	\$75.00	\$75.00
04/04/01	10	Field review, soils review	\$75.00	\$750.00
04/09/01	8	Preliminary design	\$75.00	\$600.00
05/29/01	1	Phone consult with Chris Warrick	\$75.00	\$75.00
07/31/01	8	field review	\$75.00	\$600.00
08/06/01	1	Revise design	\$75.00	\$75.00
08/09/01	8	field review	\$75.00	\$600.00
08/19/01	8	field review	\$75.00	\$600.00
08/20/01	4	Final design	\$100.00	\$400.00
09/08/01	4	Stake bridge for pile driving	\$100.00	\$400.00
09/10/01	8	Pile driving inspection	\$100.00	\$800.00
09/11/01	8	Pile driving inspection	\$100.00	\$800.00
09/25/01	6	Final design	\$100.00	\$600.00
10/12/01	4	Meet with Building Department	\$100.00	\$400.00
11/15/01	2	Revise design to 18' width	\$100.00	\$200.00
11/16/01	2	Revise design to 18' width	\$100.00	\$200.00
12/03/01	4	Field review pile layout	\$100.00	\$400.00
12/17/01	2	Revise to 120K	\$100.00	\$200.00
12/31/01	2	Revise drawings to 120 K	\$100.00	\$200.00
01/31/02	1	Revise drawings	\$100.00	\$100.00
04/02/02	2	Revise drawings for Daniel Steel	\$100.00	\$200.00

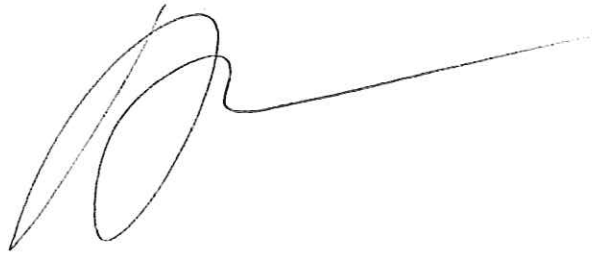
Retainer paid	\$4,000.00
Progress payment	\$2,000.00
Progress payment	\$2,000.00

Total

\$2,050.00

Thank You

Marvin Chapman

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

Attention
Steve
Williams

TO Pacific Watershed Associates
PO Box 4433
Arcata, California 95518

ATTN Jan

FROM Nash Ranch Road Association

DATE April 29, 2002

RE Work to be completed on the Nash Ranch Road by Fall 2002

Dear Pacific Watershed Associates,

This letter confirms that we will contract a further \$15,000 in outstanding projects related to the Fish and Game grant program on our road as weather permits. Approximately \$10,000 in those funds will be used for the removal of the current culvert crossing at Mill Creek and disposing of material properly, as well as for constructing and rocking the approaches to the new bridge paid for by our Association. The remaining \$5,000 will be allocated toward taking out the road that previously went to the Seekins-Paget property and for miscellaneous touch-up projects.

Thank you very much for all your hard work and cooperation on this project.

Yours,

Dan Imhoff
Board member
Nash Ranch Road Associaton

DANIEL STEEL & MACHINE
 160 Brush Street
 Ukiah, CA 95482 - 3432

NAME NASH MILL ROAD ASSOC
C/O STEVE WILLIAMS
 ADDRESS PO BOX 290
PHILO, CA 95466
 CITY _____

SHEET NO _____

CREDIT NO 895-2826

DATE	DESCRIPTION	✓ CHARGES	CREDITS	BALANCE
	BALANCE FORWARD			
4-10-82	lump sum	3264.07		3264.07
4-10-82	Dep		1850.00	15124.07
10-10-82	RFA		9382.00	5760.00
1-15-83	5580 X for wider curb	1099.00		16539.32
3-3-83	Lynch	278.35		16857.90
5-5-83	RFA		5760.00	10799.32

TO Pacific Watershed Associates
PO Box 4433
Arcata, California 95518

ATTN Jan

FROM Nash Ranch Road Association

DATE April 29, 2002

RE Work to be completed on the Nash Ranch Road by Fall 2002

Dear Pacific Watershed Associates,

This letter confirms that we will contract a further \$15,000 in outstanding projects related to the Fish and Game grant program on our road as weather permits. Approximately \$10,000 in those funds will be used for the removal of the current culvert crossing at Mill Creek and disposing of material properly, as well as for constructing and rocking the approaches to the new bridge paid for by our Association. The remaining \$5,000 will be allocated toward taking out the road that previously went to the Seekins-Paget property and for miscellaneous touch-up projects.

Thank you very much for all your hard work and cooperation on this project.

Yours,



Dan Imhoff
Board member
Nash Ranch Road Association

Chapman Engineering
P.O. Box 1123
Arcata, CA 95518
707-826-9412

Date May 5, 2002

On account with: Nash Mill Road Assn

For Bridge design

Date	hr		Rate	Total
02/14/01	5	Field review site	\$75.00	\$375.00
02/28/01	5	Travel to site	\$75.00	\$375.00
03/01/01	4	Survey site	\$100.00	\$400.00
03/01/01	5	Travel to site	\$75.00	\$375.00
03/01/01	2	consult with Building official	\$75.00	\$150.00
03/04/01	4	Plot and calculate site	\$75.00	\$300.00
03/16/01	1	Prepare submittal	\$75.00	\$75.00
04/04/01	10	Field review, soils review	\$75.00	\$750.00
04/09/01	8	Preliminary design	\$75.00	\$600.00
05/29/01	1	Phone consult with Chris Warrick	\$75.00	\$75.00
07/31/01	8	field review	\$75.00	\$600.00
08/06/01	1	Revise design	\$75.00	\$75.00
08/09/01	8	field review	\$75.00	\$600.00
08/19/01	8	field review	\$75.00	\$600.00
08/20/01	4	Final design	\$100.00	\$400.00
09/08/01	4	Stake bridge for pile driving	\$100.00	\$400.00
09/10/01	8	Pile driving inspection	\$100.00	\$800.00
09/11/01	8	Pile driving inspection	\$100.00	\$800.00
09/25/01	6	Final design	\$100.00	\$600.00
10/12/01	4	Meet with Building Department	\$100.00	\$400.00
11/15/01	2	Revise design to 18' width	\$100.00	\$200.00
11/16/01	2	Revise design to 18' width	\$100.00	\$200.00
12/03/01	4	Field review pile layout	\$100.00	\$400.00
12/17/01	2	Revise to 120K	\$100.00	\$200.00
12/31/01	2	Revise drawings to 120 K	\$100.00	\$200.00
01/31/02	1	Revise drawings	\$100.00	\$100.00
04/02/02	2	Revise drawings for Daniel Steel	\$100.00	\$200.00
05/05/02	5	Travel to site	\$100.00	\$500.00
05/06/02	10	Construction inspection	\$100.00	\$1,000.00
05/07/02	5	Travel from site	\$100.00	\$500.00

Retainer paid	\$4,000.00
Progress payment	\$2,000.00
Progress payment	\$2,000.00

Terms Inspection records will be released upon receipt of sum of \$3000. Final payment of \$1250 is expected within fifteen calendar days of release of final inspection.

Total	\$4,250.00
-------	------------

Thank You

Marvin Chapman

Chapman Engineering
P.O. Box 1123
Arcata, CA 95518
707-826-9412

Date June 4, 2002

On account with: Nash Mill Road Assn

For Bridge design

Date	hr		Rate	Total
02/14/01	5	Field review site	\$75.00	\$375.00
02/28/01	5	Travel to site	\$75.00	\$375.00
03/01/01	4	Survey site	\$100.00	\$400.00
03/01/01	5	Travel to site	\$75.00	\$375.00
03/01/01	2	consult with Building official	\$75.00	\$150.00
03/04/01	4	Plot and calculate site	\$75.00	\$300.00
03/16/01	1	Prepare submittal	\$75.00	\$75.00
04/04/01	10	Field review, soils review	\$75.00	\$750.00
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08/19/01	8	field review	\$75.00	\$600.00
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09/11/01	8	Pile driving inspection	\$100.00	\$800.00
09/25/01	6	Final design	\$100.00	\$600.00
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12/31/01	2	Revise drawings to 120 K	\$100.00	\$200.00
01/31/02	1	Revise drawings	\$100.00	\$100.00
04/02/02	2	Revise drawings for Daniel Steel	\$100.00	\$200.00
05/05/02	5	Travel to site	\$100.00	\$500.00
05/06/02	10	Construction inspection	\$100.00	\$1,000.00
05/07/02	5	Travel from site	\$100.00	\$500.00
06/04/02	4	Revise abutment design	\$100.00	\$400.00

	Retainer paid	\$4,000.00
	Progress payment	\$2,000.00
	Progress payment	\$2,000.00
Total		\$4,650.00

Terms

Inspection records and signed abutment drawings will be released upon receipt of sum of \$3000.
Final payment of \$1650 is expected within fifteen calender days of release of final inspection.

Thank You

Marvin Chapman

1:33 PM
06/07/02
Accrual Basis

Date Deposited.

NASH RANCH ROAD ASSOCIATION Register QuickReport All Transactions

Type	Date	Num	Memo	Account	Clr	Split	Amount
Chapman Engineering							
Check	9-19-01	9/6/2001	201	Partial Pmt	1010 · Nash Ranch ...	2000 Grant Re...	-4,000.00
Check	12-5-01	11/26/2001	204		1010 · Nash Ranch ...	2000 Grant Re...	-2,000.00
Check	3-28-01	3/19/2002	211		1010 · Nash Ranch ...	2000 Grant Re...	-2,000.00
Total Chapman Engineering							-8,000.00
							<u>-8,000.00</u>

TOTAL

6-7-02

Steve - Please advise on payment of current Chapman Bill. Listed above are previous payments + date cashed.

Enclosed is a current bill for 4,650.00.

- I don't see the box of ^(or boxes) stuff from John.
Hope you can drop things off next week. Thanks.

Nancy

PS current bank balance is 28,152.22 with last payment recorded as C# 213 for 18,500 to Daniel Steel.

Columbia Research & Testing
P.O. Box 933
Windsor, CA 95492
707/837-0920/fax (707)838-0411

Invoice

DATE	INVOICE NO.
1/8/2003	2509

BILL TO
Mr. Steve William PO Box 290 Philo CA 95466

TOTAL INCLUDING THIS INVOICE
Nash Ranch Road Associaion Nash Mill Road Bridge Milepost 18, Hwy 128 Philo CA 95466

PROJECT NO.	TERMS	DUE DATE	PROJECT	PREVIOUS BALANCE
	Due Now	1/8/2003		

DATE	DESCRIPTION	QTY	RATE	AMOUNT
11/4/2002	Final Field Welding Inspection of Bridge	4.5	55.00	247.50
	Final Report		0.00	0.00

*Pd OK 221
1/28/03
\$ 247.50*

INVOICE	\$247.50
----------------	-----------------

1.5% interest will be assessed on any unpaid balance over 30 days

2002

	NAME	PAID RD	WILL PAY RD	PAID BRDG	OTHER
	1) ACKERLY	Pd 365		At 500	
	2) ALEXANDER / SIREK	Pd 310		Pd 500	
-2158	3) ASHTON	Pd 323 ⁷⁵		Pd 500	
9526	4) BARR	Pd 260 ⁻		Pd 500	
4525	5) BATES	Pd 325 ⁻			
	6) BRAMBIZ	Pd 380		Pd 500	
	7) CHRISTEN / WEBSTER	Pd 360		Pd 500	
	8) COLLIER	Pd 290		Pd 500	
3368	9) FEISELMAN	Pd 265		Pd 500	
2984	10) FREYERS	Pd 300		Pd 500	
3494	11) FISCH	Pd 323 ⁷⁵			
	12) HOLMES	Pd 335 ⁻		Pd 500	
2156	13) IMHOFF	Pd 330 ⁻		Pd 500 ⁻	
	14) KORN	Pd 325 ⁻		Pd 500 ⁻	
9513	15) MARKS	Pd 316 ⁷⁵		Pd 500 ⁻	
2719	16) McCLELLAN	Pd 340 ⁻		Pd 250 ⁽⁰⁾	
	17) NASH	Pd 125 ⁻		Pd 500 ⁻	
-4112	18) NELSON	Pd 466 ⁷⁵		500	
	19) O'DONNELL	Pd 400 ⁻		Pd 500	
	20) PLOWRIGHT	Pd 315 ⁻		Pd 500	
	21) RUDOVSKY	Pd 405 ⁻		Pd 500	
	22) SFEKINS	Pd 466 ⁷⁵		Pd 500	
	23) WANDER	Pd 290 ⁻		Pd 500	
2866	24) WILD	Pd 320 ⁻		Pd 500	
-8839	25) WILLIAMS	Pd 458 ⁷⁵		Pd 500 ⁻	
	26) GIMBLETT	Pd 214 ⁷⁵	214 ⁷⁵	500 ⁻	NEXT MO.
	27) BEHAM	1039			
	28) BLAKEMAN	340			

2002

	NAME	PA RD.	WILL BARD	PAID BRDG	OTHER
29)	BRUNCKHORST/SKULAR	not 325?			
30)	BUONANNO/M ^r KELVEY?	375	paid maybe		
31)	BUTTS	340?			
32)	CASEY	380	380		
33)	CRONAUER - moved	125			
34)	GASAWAY	406 ²⁵	w/o		
35)	HERNANDEZ	not 422 ⁵⁰			
36)	HOLLIBAUGH		535	500	WILL PAY
37)	KELLY	405	405	pd 500	
38)	KOBLER	345			
39)	BILL MARUNA	Not 293 ¹³		pd 250	
40)	CHRIS MARUNA	214 ³⁷			
41)	MC MILLAN	Not Pd 790			
42)	RATH	400			
43)	SCHROCK	503 ⁷⁵			
44)	BET SPINARDI	305	305		
45)	WEATHERTON/MASON	410	410	500	
46)	WICINAS/NISHIZAWA	265	265	pd 500	

FNH? = Buonanno?

Beahm

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