B

Type

✓

Plans

B-154566

Permit Number

33250

Street Number

King Ridge Rd

Street Name

FTR

Community Code

109-260-014

APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name: Jayson L. Pahlmeyer

Date Applied: 14/June/99

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

JOB ADDRESS: 33250 King Ridge RD. Cazadero REFERENCE: PERMIT NUMBER: B154566 INSPECTION AREA: 9

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 33250 King Ridge Road | City: Cazadero | ZIP: 95421

Cross-Street: Hauser Bridge Road | APN: 109-260-14 | Project Phone #: ( ) none | Project Fax #: ( ) none

Directions: north end of King Ridge Road | Subd. Name | Unit # | Lot #

Describe Project: Water Pond - grading 14,000 cu. yd. | Living Area | Garage | Decks | Contract Price:

OWNER NAME AND ADDRESS

Name: Jayson L. Pahlmeyer

Mailing Address: P.O. Box 2410

City: Napa | State: Cal. | ZIP: 94558

Day Ph: (707) 255-2321 | Fax: (707) 255-6786

APPLICANT NAME AND ADDRESS

Name: Jayson L. Pahlmeyer

Mailing Address: P.O. Box 2410

City: Napa | State: Cal | ZIP: 94558

Day Ph: (707) 255-2321 | Fax: (707) 255-6786

CONTRACTOR INFORMATION

Company Name:

Address:

City: | State: | ZIP:

Day Ph: ( ) | Fax: ( )

OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)

Name: ~~Lee Erickson~~

Address: P.O. Box 446

City: Valley Ford | State: Cal. | ZIP: 94972

Day Ph: (707) 795-2498 | Fax: ( ) same

License No: C045660 | Exp. Date: 2002

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier _____

Policy No. _____

(This section need not be completed if the permit is for one hundred dollars ($100) or less).

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: _____ Applicant: _____

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.).

Lenders Name _____

Lenders Address _____

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☐ I am exempt under Sec. _____, B & P.C. for this reason _____

Date 29/Sept/99 Owner Henry Heintz

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class _____ Lic. No. _____

Exp. Date _____ Contractor _____

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (☐ does)(☐ does not)contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local ordinances and state laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making this application, I become exempt from the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation provisions of the Labor Code, this permit shall be deemed revoked.

NOTICE!! THIS PERMIT WILL EXPIRE BY LIMITATION IF WORK IS NOT STARTED IN 180 DAYS OR IF WORK IS ABANDONED FOR MORE THAN 180 DAYS. A REQUEST FOR TIME EXTENSION MUST BE SUBMITTED IN WRITING TO THE BUILDING CODE ADMINISTRATOR WITHIN THE FIRST 180 DAYS OF THE PERMIT.

X _____

PERMITTEE SIGNATURE

P.O. Box 2410 ADDRESS | Napa CITY | 94558 ZIP

☐ Contractor ☒ Owner ☐ Agent for Contractor ☐ Agent for Owner

Permit # B154566 Area 9

Permit Coordinator _____

FOR DEPARTMENT USE

Zoning RRD B6 240 | File No. None | Acres 10

Existing Use/Structures two houses, Ag Bldgs

Proposed Use/Structures Vineyard Pond

Zoning Min. Yard Requirements: Front 0 Left 0 Right 0 Back 0

NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change

Approval for Permit Issuance: By: _____ Date: _____

Approval for Occupancy: By: [signature] Date: 6/14/99

Conditions: prior to grading fish and game approval required

erosion control must be installed Sept. 15

Sewer Connection: ☐ Available ☐ Fees Paid

Approved by: _____ Date: _____

Road Encroachment N/A ☐ Fees Paid OFF COUNTY ROADS

Approved by: [signature] Date: 6-14-99

Septic System Permit/Clearance # Exp 99-0876

Approved by: JM DONAHUE Date: 6-25-99

Flood Zone: ☐ Yes ☒ No 100 Year Flood Elevation: _____

Site Review _____

By: _____ Date: _____

Condition of Soil at Job Site: ☐ Original ☐ Engineered Fill ☐ Loose Fill

Required Reports: ☐ Geology ☐ Soils ☐ Compaction

Code Enforcement Violation ☐ Yes ☒ No

Work Authorized:

Grading Water Pond

☐ New ☐ Addition ☐ Alteration ☐ Repair ☐ Moving ☐ Occ/Chg

FINALED

☐ Plans Approved

☐ No Plans Subject to Field Inspection

Plancheck Cleared By: K Drake Date: 6/14/99

Permit Cleared and Issued By: [signature] Date: 9/29/99

Machine Space for Permit Fee

#	0154566
SIERRA	$219.50
**TTL	$219.50
CHECK	$219.50
CHNG	$0.00

Type of Construction	Occupancy	No. of Stories	No. of Bedrooms

Auto. Fire Sprinklers Req'd	No of Units	Certificate of Occupancy

Final Date	Inspector

CIS-007.cdr (Revised: 3/19/99)

Distribution: White - File Canary - Applicant Pink - Audit Copy Blue - Assessor Cardstock - Inspector

131) SPECIAL INSPECTION REQUIRED ❒ YES ❒ NO IF YES, SEE ADDITIONAL SHEET

INSPECTION RECORD	DATE	NAME
103) FOUNDATION		
FORMS/SETBACK		
FOOTING		
WALLS		
106) UFER GROUND #		
104) CAISSONS/PIERS		
105) SLAB		
110) MASONRY		
109) RETAINING WALLS		
113) FIREPLACE		
FOOTING		
HEARTH/PROTECTION		
THROAT		
114) CHIMNEY		
120) UNDERFLOOR/UNDERSLAB		
116) U/F ELECTRICAL		
117) U/F MECHANICAL		
118) U/F PLUMBING		
119) U/F FRAMING		
139) U/F INSULATION		
126) SHEAR WALLS		
❒ INTERIOR		
❒ EXTERIOR		
127) DIAPHRAGMS		
❒ ROOF		
❒ FLOOR		
134) SIDING/SHEATHING		
125) HOLD DOWNS		
132) CLOSE-IN		
122) ROUGH ELECTRICAL		
123) ROUGH MECHANICAL		
124) ROUGH PLUMBING		
128) ROUGH FRAME		
160) SMOKE DETECTORS		
139) INSULATION		
142) WALLBOARD		
135) STUCCO/PLASTER		
❒ LATH ❒ SCRATCH		
137) ROOFING		
130) TUB/SHOWER PAN		
164) SUSPENDED CEILING		
ROUGH ELECTRICAL		
ROUGH MECHANICAL		
165) EXITING		
STAIRS/HANDRAILS		
RAMPS		
CORRIDORS/DOORS		
166) ACCESSIBILITY COMPLIANCE		
ENERGY REQUIREMENTS		
170) TEMPORARY OCCUPANCY		
171) TEMPORARY ELECTRICAL		
172) TEMPORARY GAS		
174) ELECTRIC METER AUTHORIZATION		
152) PANEL BOARDS/SERVICE		
175) GAS METER AUTHORIZATION		
153) GAS PRESSURE TEST		
HOUSE		
YARD		
190) MANUF. HOME FOUNDATION		
191) MANUF. HOME INSTALLATION		
CONTINUITY		
STAIRS/SKIRTS		
RIDGE BOLTING		
SWIMMING POOLS		
194) PRE-GUNITE		
195) PRE-DECK		
196) PRE-PLASTER/FENCE		
102) GRADING FINAL		
176) ELECTRICAL FINAL		
177) MECHANICAL FINAL		
178) PLUMBING FINAL		
199) FINAL		
OCCUPANCY (OK TO OCCUPY)		

REMARKS

SITE VISIT 6-26-03

MET W/ CIVIL ENGINEER TO REVIEW AS BUILTS AND PROPOSED REMEDY FOR DAM.

FIRE INSPECTION REQUIRED	DATE	NAME
❒ Yes ❒ No		
770) SPRINKLER FINAL		
771) ABOVEGROUND HYDROSTATIC		
772) UNDERGROUND HYDROSTATIC		
773) UNDERGROUND FLUSH		
774) THRUST BLOCKS		
775) PIPE WELD		
776) HYDRANTS/APPLIANCES		
777) PUMP ACCEPTANCE		
778) WATER SUPPLY/TANK		
779) ALARM SYSTEM		
780) HOOD & DUCT SYSTEM		
781) ABOVEGROUND TANK/DISPENSER		
198) FIRE FINAL		

PERMIT #

CLEARANCES:

FIRE ❒ Local ❒ County

HEALTH DEPARTMENT

ZONING

SANITATION

N.C.A.P.C.D.

PLAN RETENTION REQUIRED?
❒ Yes ❒ No

Required Cut/Fill Table For Grading Permits

BPC-008

❑ Applicant ❑ Owner ❑ Architect \ Engineer

HUBI SCHRAGIE
Name

818 MENDOCINO AVE #100
Mailing Address

SANTA ROSA CA 95401
City/Town State/Zip

707 573-1872
Phone Fax

[signature]
Signature

1/9/04
Date

Project Site Information

33290 KINGS RIDGE RD
Address(es)

GUALALA, CA
City/Town

109-260-014
Assessor's Parcel Number(s)

DAHLMEYER VINEYARDS
Project Name (if applicable)

Please do not write in the shaded areas.

Cut	-		767 Cu. Yds.
Fill	+	779 Cu. Yds.	
Export	-		Cu. Yds.
Import	+	Cu. Yds.	
Shrinkage	-		Cu. Yds.
Totals		779 Cu. Yds.	767 Cu. Yds.

Purpose or use of grading:

VINEYARD

Geotechnical report available? Yes ❑ No ☒

Geotechnical report included with application? Yes ❑ No ☒

Will more than 1 acre be denuded? Yes ❑ No ☒

---------- ❑ DO NOT WRITE BELOW THIS LINE - To Be Completed by PRMD Staff ❑ ----------

Total volume used for fee calculations Cu. Yds.

For excavation and fill on the same site, the fee shall be based on the volume of excavation or fill, whichever is greater. (Reference is 1998 California Building Code Section 3310.2)

Activity No. _____

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue ❖ Santa Rosa, CA ❖ 95403-2829 ❖ (707) 565-1900 ❖ Fax (707) 565-1103

CONSULTING CIVIL ENGINEERS
RECHERS & SPENCE ASSOCIATES

#2102083.0
January 18, 2006

Scott Burkett
Senior Building Inspector
Sonoma County Permit & Resource Management Department
2550 Ventura Avenue
Santa Rosa, CA 95403

RE: Pahlmeyer Vineyard
As-Built Plans

Dear Mr. Burkett:

The Pahlmeyer Vineyard As-Built Construction Plans dated 9/23/05 have been completed for the Pahlmeyer project at 33250 King Ridge Rd in Cazadero. The completed corrective construction is in conformance with County of Sonoma PRMD correction notice 7/24/02 (#B-154566) and PJC & Assoc. geotechnical Final Report 11/7/05. If you have any questions or concerns please feel free to contact us.

Sincerely,

Hugh Linn, P.E.
Project Manager

HL:av

RECEIVED
JAN 20 2006
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
COUNTY OF SONOMA

1541 Third Street Napa, CA 94559
P. 707.252.3301 F. 707.252.4966

818 Mendocino Ave. Santa Rosa, CA 95401
P. 707.573.1872 F. 707.573.1953

3350 Watt Ave., # B, Sacramento, CA 95821
P. 916.488.8263 F. 916.488.1679

www.rsacivil.com

Riechers
Spence &
Associates

CONSULTING
CIVIL ENGINEERS
PLANNERS
SURVEYORS

Job No. 21 02 083.0

September 27, 2002

Mr. Shems Peterson
Permit Resource Management Department
County of Sonoma
2550 Ventura Avenue
Santa Rosa, CA 95401

Re: Correction Notice (B-154565-9, July 24, 2002)
33250 King Ridge Road
APN 109-260-014

Riechers Spence and Associates has recently been contracted to address the "As-Built" survey and plans for the roads, dam modifications, and drainage improvements as required by your July 24th correction notice. We will also be coordinating with a licensed Geotechnical firm for the compaction testing noted as Item 2 on the same notice.

Riechers Spence & Associates will prepare a full set of as-built plans, grading, drainage and erosion control plans for the subject parcel and will coordinate the respective site visit and review by the Sonoma County Permit Resource Management Department for final approval. Please do not hesitate to contact our office with any questions you may have.

Sincerely,

Rick Swinth, P.E.
Regional Manager

Cc: Ed Hogan, Pahlmeyer

818 Mendocino Ave.
Suite 100
Santa Rosa
California 95401
707 • 573 • 1872
FAX 573 • 1953
rsacivil@rsacivil.com

County of Sonoma
Permit And Resource Management Department
2550 Ventura Avenue, Santa Rosa, CA 95403
Construction Inspection Section

CORRECTION NOTICE

Permit # B-154565-9 Owner _____

Job Address 33250 KING RIDGE RD

I have inspected work under the above permit and have observed the following code violations:

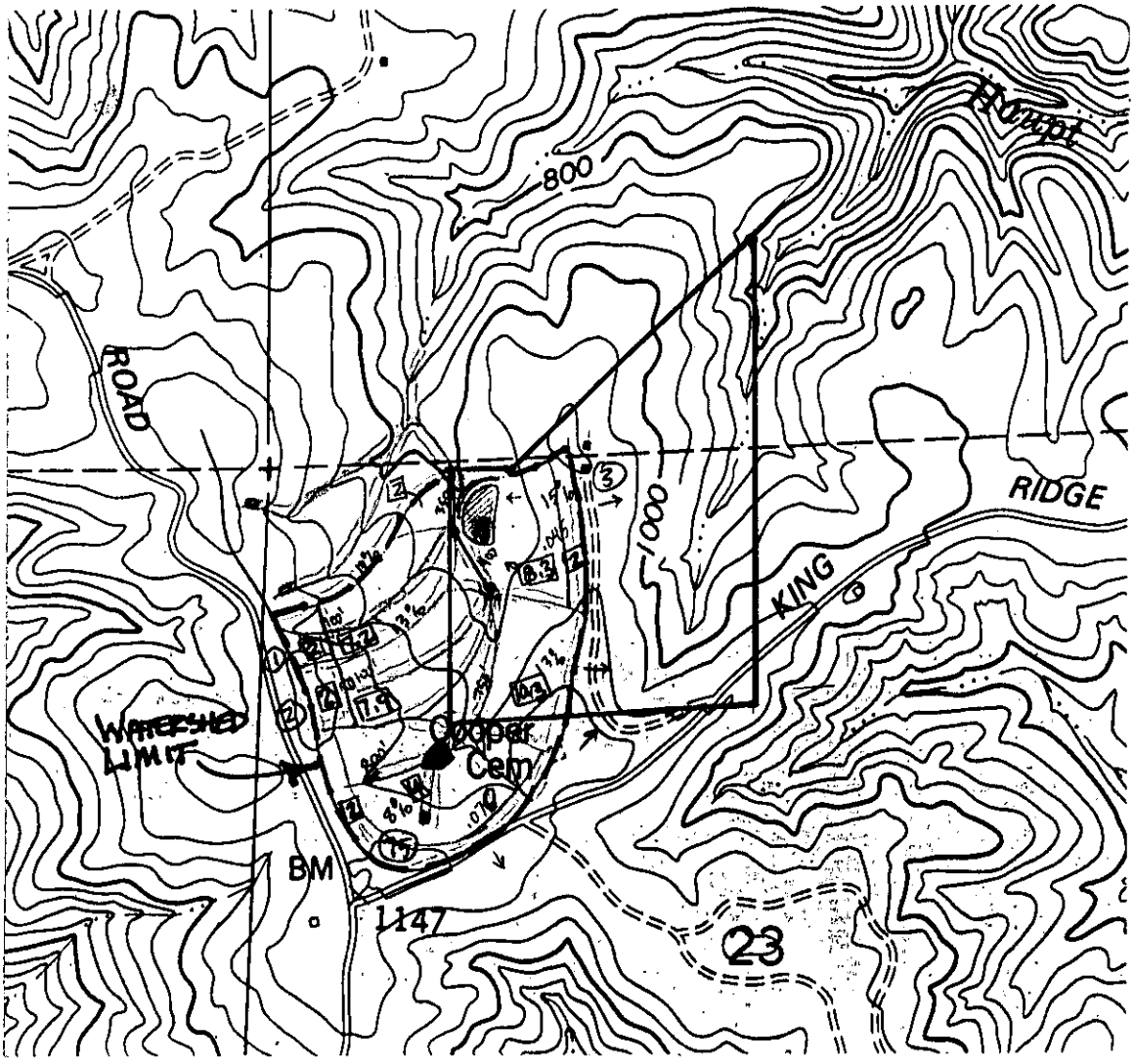
① PROVIDE "AS BUILT" PLANS FOR INSTALLATION OF FILL TO CREATE ROADS, AND INCREASED DAM WIDTH, AS WELL AS ANY OTHER CHANGES IN SLOPES, DRAINAGE PIPING, AND FILL PLACEMENT.

② GEO-TECH TO VERIFY COMPACTION OF ALL NEW AREAS OF FILL PLACEMENT, AS WELL AS PROVIDING FINAL REPORT, INCLUDING COMPLETION OF KEYWAYS, BENCHES, ETC RELATED TO RESEVIOR CONSTRUCTION.

Make corrections before proceeding with other work. When corrections have been made, call 565-3551 or 565-1679 for reinspection.

Date 7-24-02 Inspector _____

CIS-004 cdr 04/20/99 White - Permit Canary - Job Pink - Office



TRIBUTARY	SLOPE	LENGTH	AREA
1	12%	1100'	9.2 AC
2	13%	1100'	9.9 AC
3	10%	650'	10.3 AC
75a	8%	800'	16.0 AC
b	6.6%	750'	10.3
c	2%	350	2 (PIPE)
			58 AC

Pahlmeyer Vineyard Reservoir Watershed Area

Erickson Engineering Inc.
Valley Ford CA 94972-0446
707/795-2498 Voice/Fax

May 25, 1999
USGS 7.5min Quadrangle Map: Plantation
Scale: 1" = 1000' Contour Interval 40'

RUN DATE 05-25-1999 S O N O M A C O U N T Y W A T E R A G E N C Y TIME 11:21:43

R A T I O N A L M E T H O D H Y D R O L O G Y -- Version 2.0;01010

RECORD 1: WAYFAIRER RESERVOIR BYPASS

RECORD 2: KING RIDGE ROAD, CASADERO CA

RECORD 3: FILE NAME- WAYFAIRER QUAD MAP- PLANTATION ZONE- WORK ORDER-

---------- TRIBUTARY 1 ----------

REC NUM	CP	AR	ELEV OR SLOPE	DIST	C	TIME	DELTA AREA	K	ADD	TRIBS	CH	N OR Q	VARIABLES X	B	DP	COMMENTS
4	1	A	0.000	200.0	0.409	15.0	2.0	2.00	0 0	0 0	OF	0.000	0.0	0.0	0.0	TOP OF WATERSHED
5	2	B	0.110	900.0	0.409	0.0	7.2	2.00	0 0	0 0	NC	0.000	0.0	0.0	0.0	SWALE TO DI2

CP	AR	T10	T25	T100	I10	I25	I100	SUM AREA	SUM RCDA	V10	V25	V100	DIA 10	DIA 25	DIA 100	Q10	Q25	Q100	
1	A	15.0	15.0	15.0	1.72	1.97	2.41	2.0	1.6	0.0	0.0	0.0	0	0	0	2.8	3.2	3.9	TOP OF WATERSHED
2	B	19.4	19.3	19.1	1.50	1.72	2.12	9.2	7.5	3.4	3.5	3.6	0	0	0	11.3	13.0	16.0	SWALE TO DI2

---------- TRIBUTARY 2 ----------

REC NUM	CP	AR	ELEV OR SLOPE	DIST	C	TIME	DELTA AREA	K	ADD	TRIBS	CH	N OR Q	VARIABLES X	B	DP	COMMENTS
6	1	A	0.000	200.0	0.423	15.0	2.0	2.00	0 0	0 0	OF	0.000	0.0	0.0	0.0	TOP OF WS2
7	2	B	0.130	900.0	0.423	0.0	7.9	2.00	0 0	0 0	NC	0.000	0.0	0.0	0.0	CHL2 TO DI1

CP	AR	T10	T25	T100	I10	I25	I100	SUM AREA	SUM RCDA	V10	V25	V100	DIA 10	DIA 25	DIA 100	Q10	Q25	Q100	
1	A	15.0	15.0	15.0	1.72	1.97	2.41	2.0	1.7	0.0	0.0	0.0	0	0	0	2.9	3.3	4.1	TOP OF WS2
2	B	18.9	18.9	18.7	1.52	1.74	2.14	9.9	8.4	3.8	3.9	4.0	0	0	0	12.7	14.6	18.0	CHL2 TO DI1

---------- TRIBUTARY 3 ----------

REC NUM	CP	AR	ELEV OR SLOPE	DIST	C	TIME	DELTA AREA	K	ADD	TRIBS	CH	N OR Q	VARIABLES X	B	DP	COMMENTS
8	1	A	0.000	150.0	0.401	15.0	2.0	2.00	0 0	0 0	OF	0.000	0.0	0.0	0.0	TOP EAST WS3
9	2	B	0.100	500.0	0.401	0.0	8.3	2.00	0 0	0 0	NC	0.000	0.0	0.0	0.0	LOWER WS3

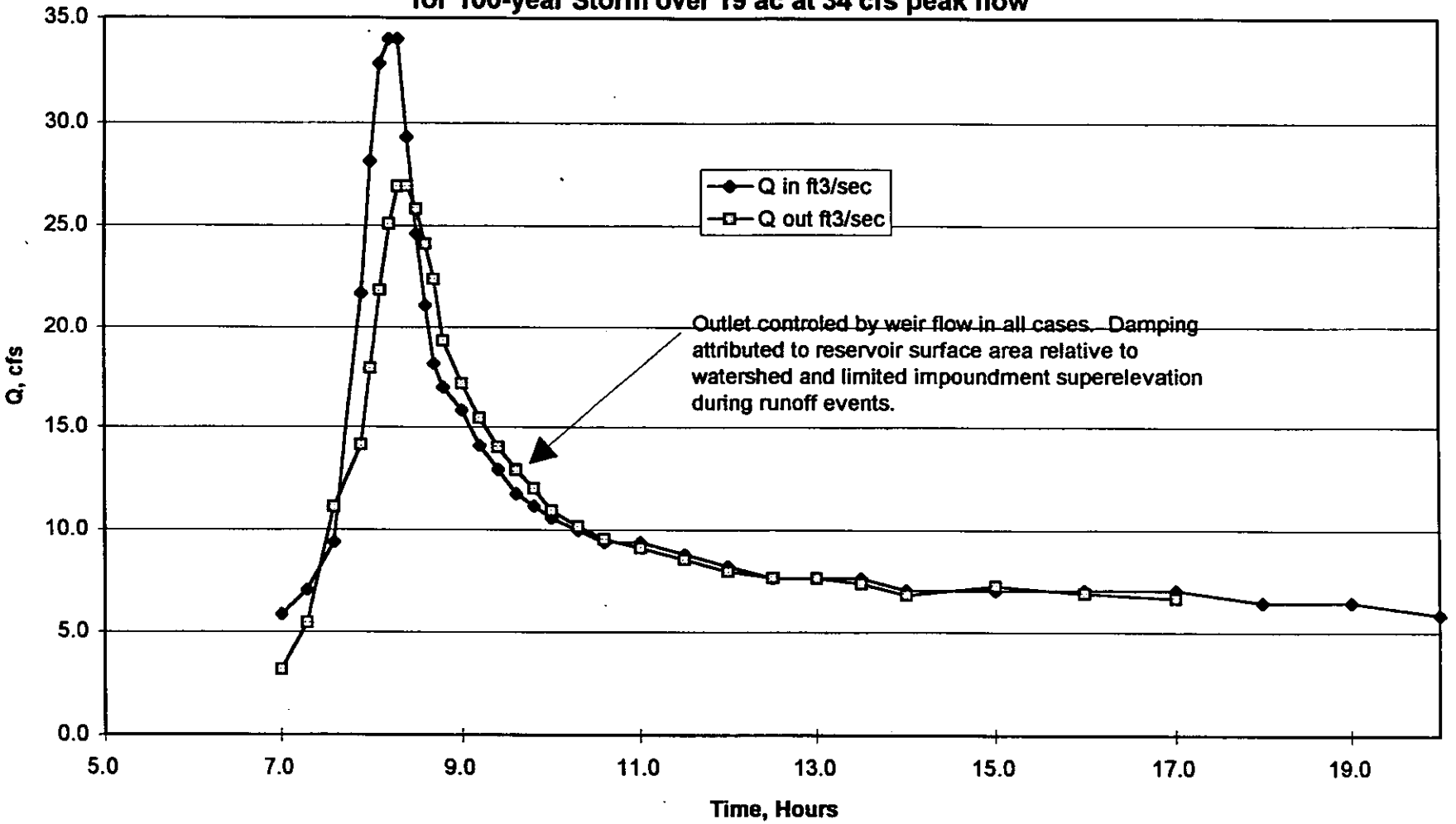
CP	AR	T10	T25	T100	I10	I25	I100	SUM AREA	SUM RCDA	V10	V25	V100	DIA 10	DIA 25	DIA 100	Q10	Q25	Q100	
1	A	15.0	15.0	15.0	1.72	1.97	2.41	2.0	1.6	0.0	0.0	0.0	0	0	0	2.8	3.2	3.9	TOP EAST WS3
2	B	17.5	17.4	17.4	1.59	1.82	2.23	10.3	8.3	3.4	3.4	3.5	0	0	0	13.1	15.0	18.5	LOWER WS3

---------- TRIBUTARY 75 ----------

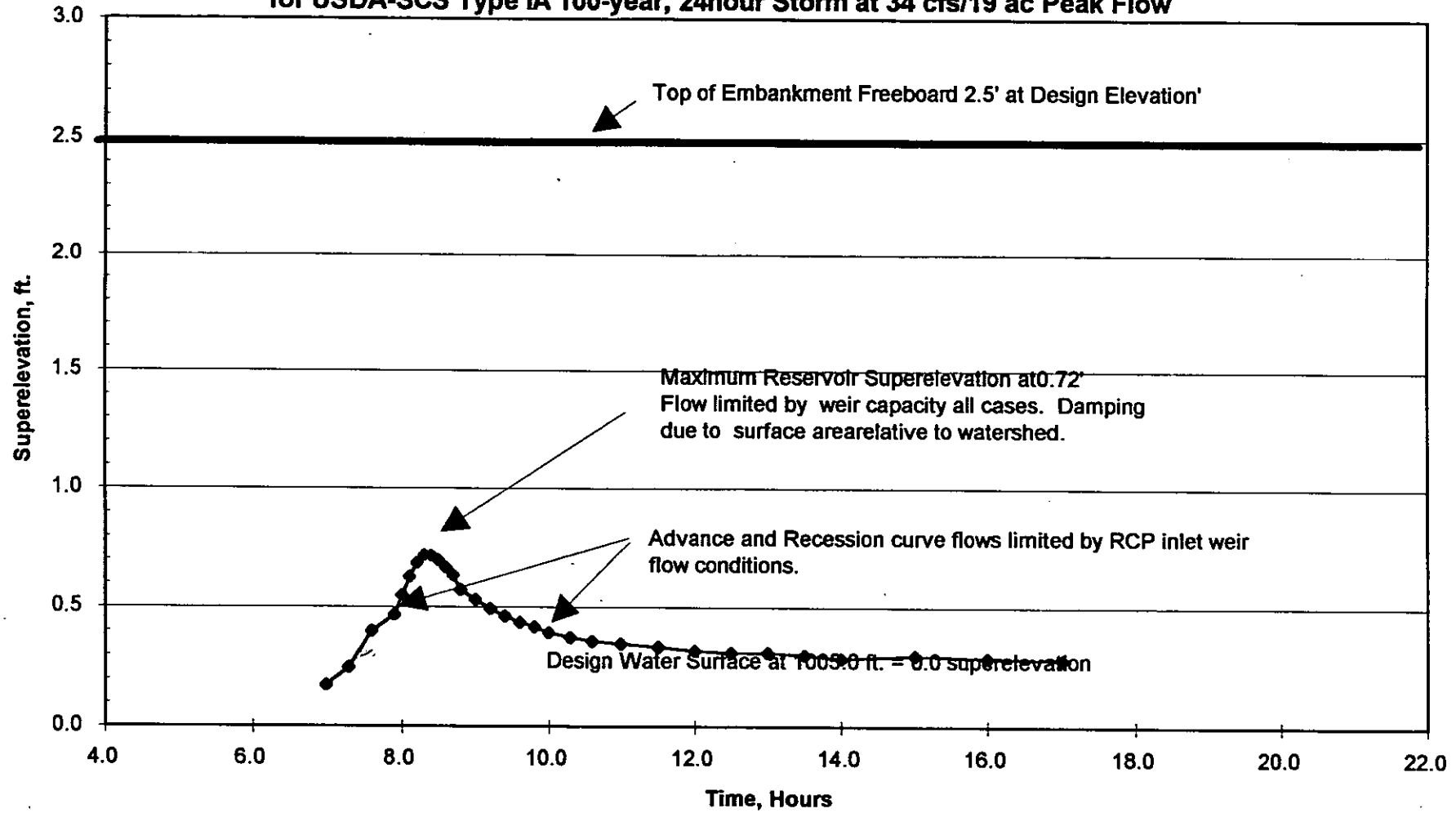
REC NUM	CP	AR	ELEV OR SLOPE	DIST	C	TIME	DELTA AREA	K	ADD	TRIBS	CH	N OR Q	VARIABLES X	B	DP	COMMENTS
10	1	A	0.000	100.0	0.383	15.0	2.0	2.00	0 0	0 0	OF	0.000	0.0	0.0	0.0	TOP WS 75
11	2	B	0.080	700.0	0.383	0.0	14.0	2.00	0 0	0 0	NC	0.000	0.0	0.0	0.0	WEST OF CEMETERY
12	3	C	0.066	750.0	0.423	0.0	10.3	2.00	2 0	0 0	NC	0.000	0.0	0.0	0.0	CHL TO DI1
13	4	D	0.020	400.0	0.423	0.0	0.0	2.00	1 3	0 0	PP	0.015	0.0	0.0	0.0	PIPE DI1-DI2
14	5	E	0.020	350.0	0.423	0.0	2.0	2.00	0 0	0 0	PP	0.015	0.0	0.0	0.0	INLETS TO OUTLET

CP	AR	T10	T25	T100	I10	I25	I100	SUM AREA	SUM RCDA	V10	V25	V100	DIA 10	DIA 25	DIA 100	Q10	Q25	Q100	
1	A	15.0	15.0	15.0	1.72	1.97	2.41	2.0	1.5	0.0	0.0	0.0	0	0	0	2.6	3.0	3.7	TOP WS 75
2	B	18.5	18.4	18.3	1.54	1.76	2.17	16.0	12.3	3.4	3.4	3.5	0	0	0	18.9	21.6	26.6	WEST OF CEMETERY
3	C	21.5	21.3	21.1	1.42	1.63	2.01	26.3	21.0	4.1	4.3	4.5	0	0	0	29.8	34.3	42.2	CHL TO DI1
3	C	21.5	21.3	21.1	1.42	1.63	2.01	36.2	29.4	4.1	4.3	4.5	0	0	0	41.7	47.9	59.1	TRIBUTARIES ADDE
4	D	22.2	22.0	21.7	1.40	1.61	1.98	36.2	29.4	9.8	10.1	10.7	28	29	32	41.7	47.9	59.1	PIPE DI1-DI2
4	D	22.2	22.0	21.7	1.40	1.61	1.98	55.7	45.2	9.8	10.1	10.7	28	29	32	63.2	72.6	89.5	TRIBUTARIES ADDE
5	E	22.7	22.5	22.2	1.38	1.59	1.96	57.7	46.9	10.8	11.2	11.8	33	34	37	64.7	74.4	91.8	INLETS TO OUTLET
																1.12	1.28	1.59	CFS/AC

Pahlmeyer Vineyard Reservoir at 33250 King Ridge Road
Outlet Curve for 60" dia or 48" square Drop Inlet, 36" PVC Spillway and
USDA-SCS Q100-24 Type IA Synthetic Hydrograph
for 100-year Storm over 19 ac at 34 cfs peak flow



Pahlmeyer Vineyard Reservoir at 33250 King Ridge Road
Principal/Emergency Spillway Modeling
Water Surface Superelevation with 60" dia or 48" square inlet, 36" pipe
for USDA-SCS Type IA 100-year, 24hour Storm at 34 cfs/19 ac Peak Flow



Reservoir Stepwise Stage-Discharge Curve Evaluation
Weir/Orifice and Pipe-type Principal Spillway
USDA-SCS TR55 Synthetic Hydrograph
Q100-24 runoff flow, incremental elevation Calcs.

File: Wayfarer.xls
Date: 30-May
Time: 03:39 PM
Landowner: Pahlmeyer Vineyards
Property: 33250 King Ridge Road
Project: Spillway Evaluation

Erickson Engineering Inc.

USDA-SCS References:
NEH-5 Hydraulics
EWP-5 Conduit Outlets
TR-48 Gated Outlets
TR-55 Hydrology Estimation
Closed Conduit Spillways
Blaisdell 1980. ASCE Proceedings

34 cfs from 19 ac watershed

INPUT PARAMETERS							
Inlet dia, ft:	5.08	n':	0.012				
Inlet ht, ft:	4.00	upper SS:1	2.5		Top elev:	1007.5	
Pipe dia, ft:	3.00	lower SS:1	2.5		Toe elev:	990.0	
Outlet dia, ft:	3.00	Topwidth:	15.0		Tailwater	0.0	
Outlet ht, ft:	0.00	Freeboard:	2.0		Reservoir Stage-Storage		
pipe area sq ft:	7.07	Em Fboard:	2.0		ac.ft/ft:	1.65289256	
SPILLWAY CALCULATIONS							
Horizontal length:	63.8	Vertical:	11.6	Net:	64.8		
Head, pond-tail	15.5						
HEADLOSS FACTORS:		per ft:		Summation K:	3.21		
enter:	0.5	pipe:	0.006	Grates, dec % area:	0.10		
in bend:	1.3	riser:	0.003	PIPE-FULL FLOW, CFS:	124.6		
out bend:	0	outlet:	0.006				
INITIAL CONDITIONS				Stage, ft:	0.100		
				Qout, cfs:	1.6		

Time, hr.	Q in ft3/sec	Incr. V ft3	Surcharge V ft3	Incr. h, ft.	Total h ft.	Qweir ft3/sec	Qorf ft3/sec	Qpipe ft3/sec	Qmin = Q out ft3/sec	Outlet superelev ft.
7.0	5.9	5275	12475	0.073	0.173	3.2	36.6	125.3	3.2	0.02
7.3	7.0	5396	12596	0.075	0.248	6.5	43.8	125.6	6.5	0.05
7.6	9.4	10832	18032	0.150	0.399	11.2	55.5	126.2	11.2	0.19
7.9	21.7	4935	12135	0.069	0.467	14.2	60.1	126.5	14.2	0.31
8.0	26.1	5856	13056	0.081	0.549	18.1	65.1	126.8	18.1	0.50
8.1	32.8	5516	12716	0.077	0.626	22.0	69.5	127.1	22.0	0.74
8.2	34.0	4316	11516	0.060	0.685	25.2	72.8	127.3	25.2	0.98
8.3	34.0	2307	9507	0.032	0.717	27.0	74.4	127.5	27.0	1.12
8.4	29.3	-26	7174	0.000	0.717	27.0	74.4	127.5	27.0	1.12
8.5	24.6	-1496	5704	-0.021	0.696	25.9	73.3	127.4	25.9	1.03
8.6	21.1	-2237	4963	-0.031	0.665	24.1	71.7	127.3	24.1	0.89
8.7	18.2	-2359	4841	-0.033	0.632	22.4	69.9	127.1	22.4	0.77
8.8	17.0	-4294	2906	-0.060	0.573	19.3	66.5	126.9	19.3	0.57
9.0	15.8	-3124	4076	-0.043	0.529	17.1	64.0	126.7	17.1	0.45
9.2	14.1	-2631	4569	-0.037	0.493	15.4	61.7	126.6	15.4	0.36
9.4	12.9	-2220	4980	-0.031	0.462	14.0	59.7	126.5	14.0	0.30
9.6	11.7	-1829	5371	-0.025	0.436	12.8	58.1	126.4	12.8	0.26
9.8	11.1	-1433	5767	-0.020	0.417	12.0	56.7	126.3	12.0	0.22
10.0	10.6	-1845	5355	-0.026	0.391	10.9	55.0	126.2	10.9	0.18
10.3	10.0	-1304	5896	-0.018	0.373	10.1	53.7	126.1	10.1	0.16
10.6	9.4	-1085	6115	-0.015	0.358	9.5	52.6	126.1	9.5	0.14
11.0	9.4	-789	6411	-0.011	0.347	9.1	51.8	126.0	9.1	0.13
11.5	8.8	-1062	6138	-0.015	0.332	8.5	50.7	125.9	8.5	0.11
12.0	8.2	-1084	6116	-0.015	0.317	7.9	49.5	125.9	7.9	0.10
12.5	7.6	-581	6619	-0.008	0.309	7.6	48.9	125.9	7.6	0.09
13.0	7.6	-38	7162	-0.001	0.308	7.6	48.8	125.9	7.6	0.09
13.5	7.6	-530	6670	-0.007	0.301	7.4	48.2	125.8	7.4	0.08
14.0	7.0	-1139	6061	-0.016	0.285	6.8	46.9	125.8	6.8	0.07
15.0	7.0	919	8119	0.013	0.298	7.2	48.0	125.8	7.2	0.06
16.0	7.0	-738	6462	-0.010	0.288	6.9	47.2	125.8	6.9	0.07
17.0	7.0	-460	6740	-0.006	0.281	6.6	46.6	125.7	6.6	0.07
18.0	6.4									
19.0	6.4									
20.0	5.9									
21.0	5.3									
22.0	5.3									
23.0	9.0									
MAXIMUM VALUES	34.0 CFS		0.41 AC-FT		0.72 FT				27.0 CFS	1.12 FT

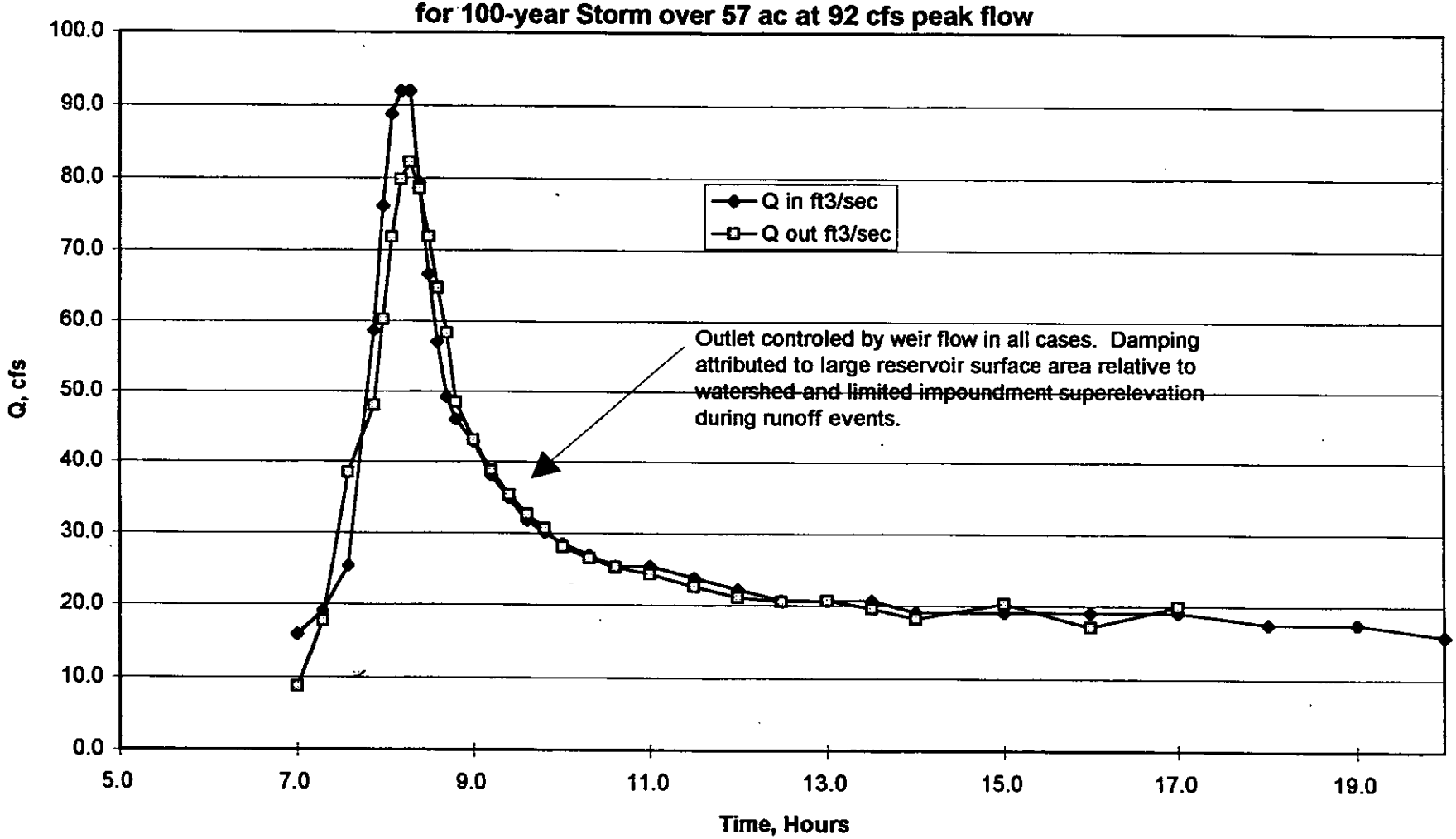
Pipe Entrance Cavitation Check:
Head at entrance, ft:

Vmax f/s: 3.83
-13.44 OK if > -25 ft.

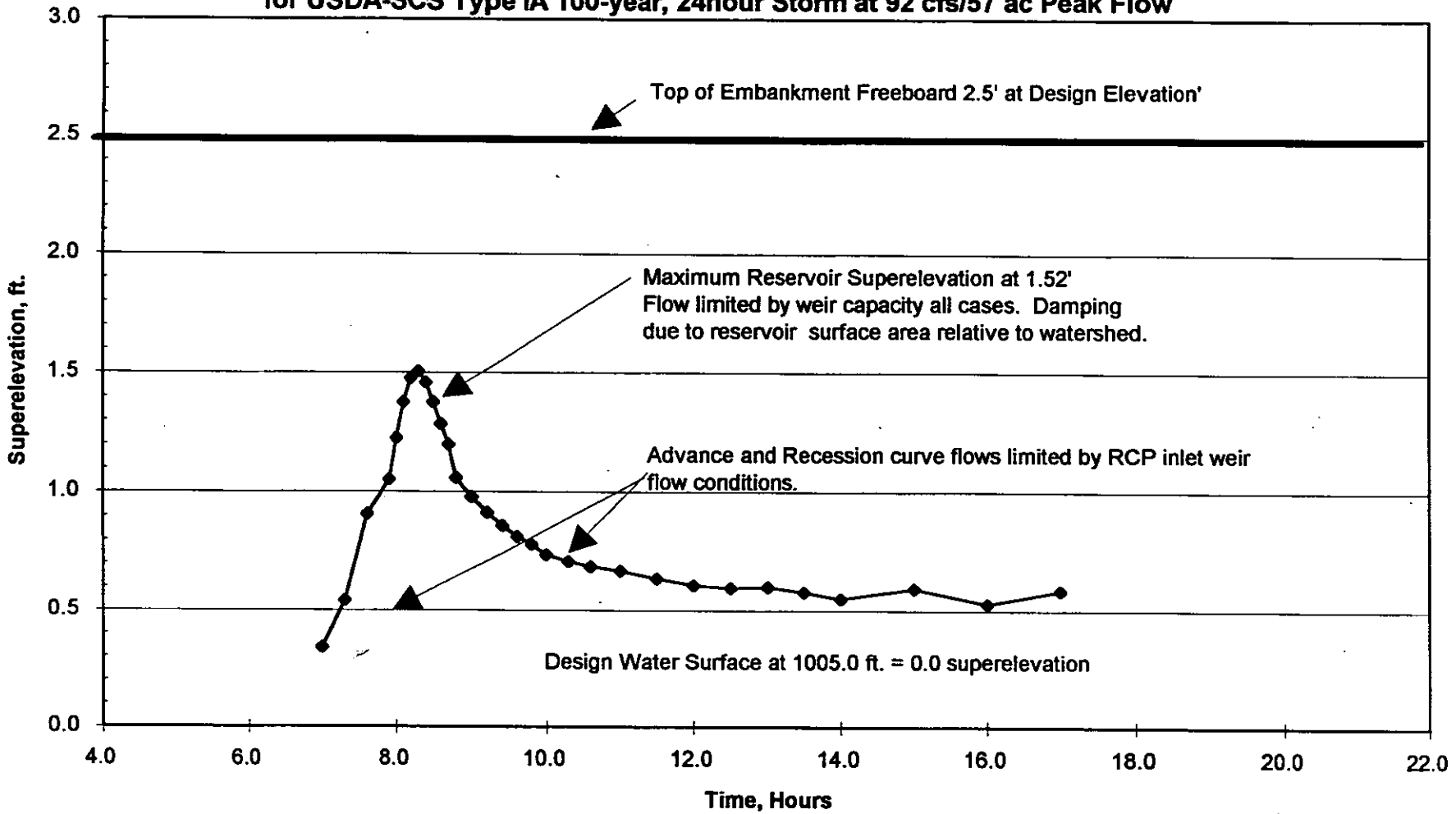
ASSUMPTIONS by column:
A, B: USDA-SCS TR55 Synthetic Hydrograph, Type 1A storm for specific waters
C: Incremental time * (Qin-Qout)
D: Incremental h for specific reservoir. Specify as ac.ft/ft between outlet and to
E,F: Summation of incremental h = reservoir water surface above outlet elevatio
G,H,I: Outlet flow using Weir, Orifice, or Pipe flow equations.
J: Outlet flow = min flow from Weir, Orifice, or Pipe constraints.

NOTES:
Set input parameters to match geometry of embankment and desired spillway.
Change Qin values to match synthetic hydrograph for watershed of interest.
Reservoir stage-storage constant (ac-ft/ft) must match site conditions.
Set initial stage condition to reflect start of period conditions.
Surcharge volume shows instantaneous water storage above design water surface.
Differential area under inlet and outlet rate curves is proportional to surcharge storage volume.
Compare Qw, Qo, and Qp columns to determine limiting flow condition for any time period.
Adjust parameters to prevent orifice control of output flow to prevent erratic stage curve.
Adjust spillway geometry to obtain desired peak flows, max surcharge height,
and output flow elevation.
Use 123 PRINTGRAPH to document flow rate and stage curves.

Pahlmeyer Vineyard Reservoir at 33250 King Ridge Road
Outlet Curve for 60" dia or 4' square Drop Inlet, 36" PVC Spillway and
USDA-SCS Q100-24 Type IA Synthetic Hydrograph
for 100-year Storm over 57 ac at 92 cfs peak flow



Pahlmeyer Vineyard Reservoir at 33250 King Ridge Road
Principal/Emergency Spillway Modeling
Water Surface Superelevation with 60" dia or 48" square inlet, 36" pipe
for USDA-SCS Type IA 100-year, 24hour Storm at 92 cfs/57 ac Peak Flow



Reservoir Stepwise Stage-Discharge Curve Evaluation
Weir/Orifice and Pipe-type Principal Spillway
USDA-SCS TR55 Synthetic Hydrograph
Q100-24 runoff flow, incremental elevation Calcs.

File: Weyfarer.xls
Date: 30-May
Time: 03:31 PM
Landowner: Pahlmeyer Vineyards
Property: 33250 King Ridge Road
Project: Spillway Evaluation

Erickson Engineering Inc.

USDA-SCS References:
NEH-5 Hydraulics
EWP-5 Conduit Outlets
TR-46 Gated Outlets
TR-55 Hydrology Estimation
Closed Conduit Spillways
Blalsdell 1980. ASCE Proceedings

92 cfs from 57 ac watershed

INPUT PARAMETERS							
Inlet dia, ft:	5.08	n*:	0.012				
Inlet ht, ft:	4.00	upper SS:1	2.5			Top elev:	1007.5
Pipe dia, ft:	3.00	lower SS:1	2.5			Toe elev:	990.0
Outlet dia, ft:	3.00	Topwidth:	15.0			Tailwater	0.0
Outlet ht, ft:	0.00	Freeboard:	2.0			Reservoir Stage-Storage	
pipe area sq ft:	7.07	Em Fboard:	2.0			ac.ft/ft:	1.65289256
SPILLWAY CALCULATIONS							
Horizontal length:	63.8	Vertical:	11.5	Net:	64.8		
Head, pond-tail	15.5						
HEADLOSS FACTORS:		per ft:		Summation K:	3.21		
enter:	0.5	pipe:	0.006	Grates, dec % area:	0.10		
in bend:	1.3	riser:	0.003	PIPE-FULL FLOW, CFS:	124.6		
out bend:	0	outlet:	0.006				
INITIAL CONDITIONS				Stage, ft:	0.100		
				Qout, cfs:	1.6		

Time, hr.	Q in ft3/sec	Incr. V ft3	Surcharge V ft3	Incr. h, ft.	Total h ft.	Qweir ft3/sec	Qorf ft3/sec	Qpipe ft3/sec	Qmin = Q out ft3/sec	Outlet superelev ft.
7.0	15.9	17155	24355	0.238	0.338	8.8	51.1	126.0	8.8	0.12
7.3	19.0	14525	21725	0.202	0.540	17.7	64.6	126.8	17.7	0.48
7.6	25.4	26320	33520	0.366	0.906	38.4	83.7	128.2	38.4	2.26
7.9	58.7	10459	17659	0.145	1.051	48.0	90.1	128.8	48.0	3.53
8.0	76.1	12431	19631	0.173	1.223	60.2	97.2	129.4	60.2	5.57
8.1	88.8	10862	18062	0.151	1.374	71.7	103.1	130.0	71.7	7.89
8.2	92.0	7300	14500	0.101	1.476	79.8	106.8	130.4	79.8	9.77
8.3	92.0	2107	9307	0.029	1.505	82.2	107.8	130.5	82.2	10.37
8.4	79.3	-3320	3880	-0.046	1.459	78.4	106.2	130.4	78.4	9.44
8.5	66.6	-5968	1232	-0.083	1.376	71.9	103.1	130.0	71.9	7.92
8.6	57.1	-6737	463	-0.094	1.282	64.6	99.6	129.7	64.6	6.41
8.7	49.2	-6142	1058	-0.085	1.197	58.3	96.2	129.3	58.3	5.22
8.8	46.0	-10002	-2802	-0.139	1.058	48.5	90.4	128.8	48.5	3.60
9.0	42.8	-5786	1434	-0.080	0.978	43.1	86.9	128.5	43.1	2.65
9.2	38.1	-4737	2463	-0.066	0.912	38.8	84.0	128.2	38.8	2.31
9.4	34.9	-3946	3254	-0.055	0.858	35.3	81.4	128.0	35.3	1.92
9.6	31.7	-3181	4019	-0.044	0.813	32.7	79.3	127.8	32.7	1.64
9.8	30.1	-2382	4818	-0.033	0.780	30.7	77.7	127.7	30.7	1.44
10.0	28.6	-3156	4044	-0.044	0.736	28.1	75.4	127.5	28.1	1.21
10.3	27.0	-2117	5083	-0.029	0.707	26.5	73.9	127.4	26.5	1.07
10.6	25.4	-1563	5637	-0.022	0.685	25.3	72.8	127.3	25.3	0.96
11.0	25.4	-1204	5996	-0.017	0.669	24.3	71.9	127.3	24.3	0.91
11.5	23.8	-2406	4796	-0.033	0.636	22.5	70.1	127.1	22.5	0.78
12.0	22.2	-2019	5181	-0.028	0.607	21.1	68.5	127.0	21.1	0.68
12.5	20.6	-790	6410	-0.011	0.596	20.5	67.9	127.0	20.5	0.64
13.0	20.6	233	7433	0.003	0.599	20.7	68.1	127.0	20.7	0.65
13.5	20.6	-1495	5705	-0.021	0.579	19.6	66.9	126.9	19.6	0.59
14.0	19.0	-2014	5186	-0.028	0.551	18.2	65.2	126.8	18.2	0.51
15.0	19.0	3039	10239	0.042	0.593	20.3	67.7	127.0	20.3	0.63
16.0	19.0	-4633	2567	-0.064	0.529	17.1	63.9	126.7	17.1	0.45
17.0	19.0	4092	11292	0.057	0.585	19.9	67.3	127.0	19.9	0.61
18.0	17.4									
19.0	17.4									
20.0	15.9									
21.0	14.3									
22.0	14.3									
23.0	9.0									
MAXIMUM VALUES	92.0 CFS		0.77 AC-FT		1.50 FT				82.2 CFS	10.37 FT

Pipe Entrance Cavitation Check: Vmax f/s: 11.63
Head at entrance, ft: -15.50 OK if > -25 ft.

ASSUMPTIONS by column:
A, B: USDA-SCS TR55 Synthetic Hydrograph, Type 1A storm for specific waters
C: Incremental time * (Qin-Qout)
D: Incremental h for specific reservoir. Specify as ac.ft/ft between outlet and to
E,F: Summation of incremental h = reservoir water surface above outlet elevatio
G,H,I: Outlet flow using Weir, Orifice, or Pipe flow equations.
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NOTES:
Set input parameters to match geometry of embankment and desired spillway.
Change Qin values to match synthetic hydrograph for watershed of interest.
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Set initial stage condition to reflect start of period conditions.
Surcharge volume shows instantaneous water storage above design water surface.
Differential area under inlet and outlet rate curves is proportional to surcharge storage volume.
Compare Qw, Qo, and Qp columns to determine limiting flow condition for any time period.
Adjust parameters to prevent orifice control of output flow to prevent erratic stage curve.
Adjust spillway geometry to obtain desired peak flows, max surcharge height,
and output flow elevation.
Use 123 PRINTGRAPH to document flow rate and stage curves.

Erickson Engineering Inc, Valley Ford CA 94972-0446

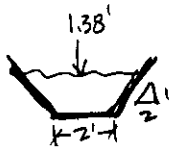
Pahlmeyer Wayfarer Ranch
33250 King Ridge Road
Cazadero CA 95421

File: xl/hydraulic/mannings
Time: 01:54 PM
Date: 30-May-99
Updated: 30-May-99

Mannings Equation, Trapezoidal Sections
Reference Brater and King, Chapter 7

100-year flow at DI1 at 59 cfs per
Sonoma County Rational Methods

Input Parameters		Output Parameters		
1.38	Normal depth, ft	59.00	cu ft/sec	Flow capacity
0.035	Manning's n	8.99	Ft/sec	Velocity
0.060	s, channel slope ft/ft	6.56	Sq Ft	Area
16.67	1/s, channel slope, ft/100ft	7.52	Ft	Topwidth
2.0	Z, side slope, ft/ft	1.26	Ft	Velocity Head
2.0	b, bottom width, ft	2.64	Ft	Energy Head
		1.35	V/(gd)^.5	Froude #: Supercrit

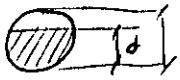


INLET TO SED POND @ DI #1

Mannings Equation, Circular section
Provides V, Q based on Diameter for given n, slope

Pipe between DI$_1$ & DI$_2$
Drop Inlet #1 above reservoir

Input Parameters		Output Parameters		
30	inch pipe diameter	H2O Depth d:	23.09	inches
0.77	d/D ratio OK	Sector above H2O:	2.50	ft
0.012	Manning's n	Circumfrence:	7.85	ft
0.02	s, channel slope ft/ft	theta:	2.00	
50.000	1/s, chl slope, ft/100 ft	Water area:	4.05	sq ft
0.6	C, inlet coefficient	Wetted Perim:	5.35	ft
		Hydraulic Radius:	0.76	ft
		Outlet Velocity:	14.55	cfs
		Outlet Flow Rate:	59.00	cfs



D = 30" ok

1.92 ft at outlet
1.85 Froude No.
6.58 ft crit depth
CA(2gd)^2
27.06 cfs inlet

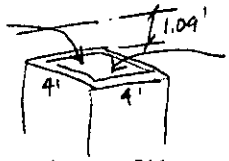
Culvert Entry Orifice Equation for pipe above flowing full.

HEAD TOO HIGH USE WEIR

Input Parameters			Output Parameters	
0.6	C, inlet coefficient		Pipe Area A:	4.909 square feet
3.74	ft (h1), maximum head	h=D+h1	(2gh)^.5:	20.03 ft/sec
30	inch pipe diameter D	6.24	Q = CA(2gh).5:	59.00 cfs

Horizontal, sharp-crested weir.
48x48 inlet at 59 cfs
DI #1

Input Parameters		Output Parameters		
3.25	C, weir coefficient	Pipe OD	61	inches
1.09	h, maximum head	Pipe circumfrence, I:	16.00	feet
53	inch pipe i.d.	Q = CIh^(3/2):	59.00	cfs
4	inch wall thickness	Eqivalent square:	4.00	feet
			48.0	inches

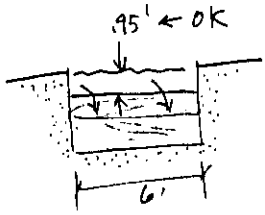


HEAD OK

4'x4' CAST INLET

Horizontal, sharp-crested weir.
Flashboard Reservoir Outlet at 18 cfs

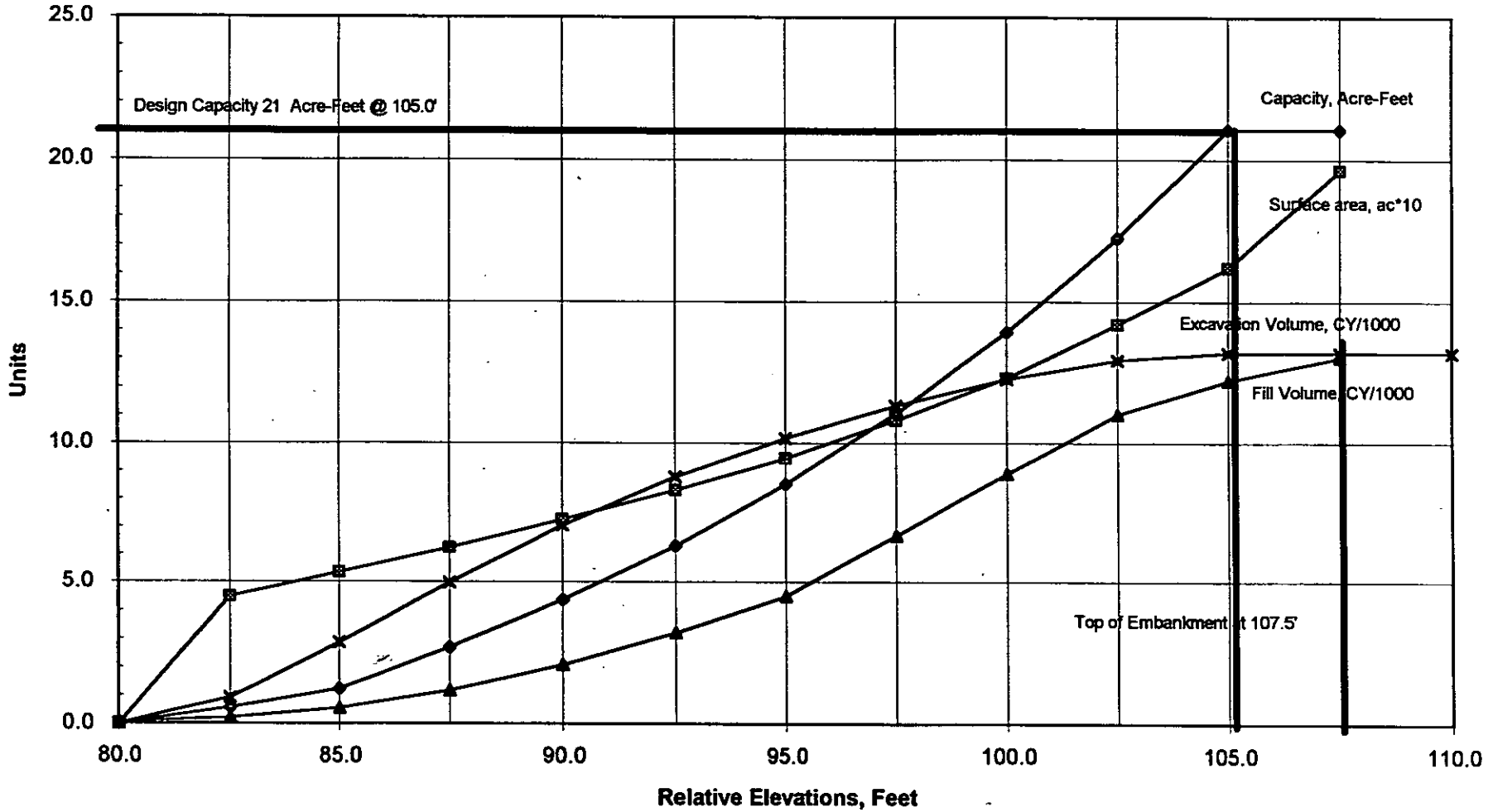
Input Parameters		Output Parameters		
3.25	C, weir coefficient	Pipe OD	~~23~~	inches
0.95	h, maximum head	~~Pipe circumfrence~~, I:	6.00	feet
15	~~inch pipe i.d.~~	Q = CIh^(3/2):	18.00	cfs
4	~~inch wall thickness~~	Eqivalent square:	~~1.50~~	~~feet~~
			~~18.0~~	~~inches~~



WEIR LENGTH

Pahlmeyer Wayfarer Vineyard

21 Acre Foot Reservoir Elevation - Volume Curves



Erickson Engineering Inc, Valley Ford CA 94972-0446

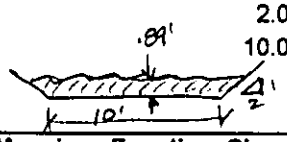
Pahlmeyer Wayfarer Ranch
33250 King Ridge Road
Cazadero CA 95421

File: xl/hydraulic/mannings
Time: 01:56 PM
Date: 30-May-99
Updated: 30-May-99

Mannings Equation, Trapezoidal Sections
Reference Brater and King, Chapter 7

100-year flow at DI2 at 90 cfs per Sonoma County Rational Methods

Input Parameters		Output Parameters		
0.89	Normal depth, ft	90.00	cu ft/sec	Flow capacity ✓
0.035	Manning's n	8.58	Ft/sec	Velocity ✓ Short Term
0.060	s, channel slope ft/ft	10.48	Sq Ft	Area
16.67	1/s, channel slope, ft/100ft	13.56	Ft	Topwidth
2.0	Z, side slope, ft/ft	1.15	Ft	Velocity Head
10.0	b, bottom width, ft	2.04	Ft	Energy Head
		1.60	V/(gd)^.5	Froude #: Supercrit

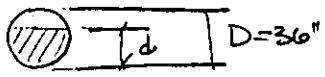


EMERGENCY SPILL IF $Q_{DI_2}=0$ SHOULD NEVER OCCUR

Mannings Equation, Circular section
Provides V, Q based on Diameter for given n, slope

Drop Inlet #2 at reservoir TO OUTLET ~ 350'

Input Parameters		Output Parameters		
36	inch pipe diameter	H2O Depth d:	26.23 inches	2.19 ft at outlet
0.73	d/D ratio	Sector above H2O:	3.29 ft	1.95 Froude No.
0.012	Manning's n - HDPE	Circumfrence:	9.42 ft	8.27 ft crit depth
0.02	s, channel slope ft/ft ✓	theta:	2.19	
50.000	1/s, chl slope, ft/100 ft	Water area:	5.52 sq ft	
0.6	C, inlet coefficient	Wetted Perim:	6.14 ft	
		Hydraulic Radius:	0.90 ft	
		Outlet Velocity:	16.31 cfs - INTO ROCK ARMOR	CA(2gd)^2
		Outlet Flow Rate:	90.00 cfs	39.25 cfs inlet



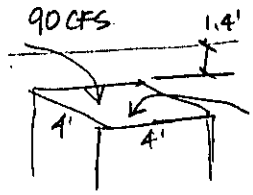
Culvert Entry Orifice Equation for pipe above flowing full.

TOO HIGH - USE WEIR

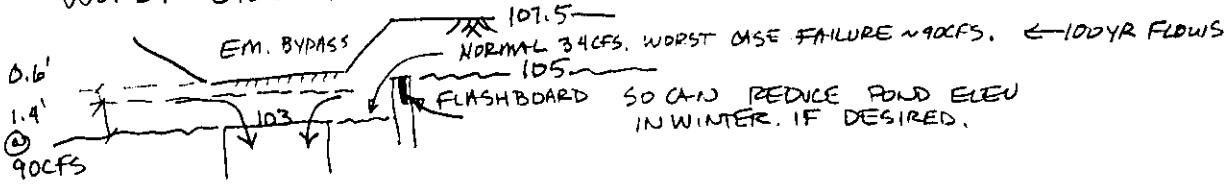
Input Parameters			Output Parameters	
0.6	C, inlet coefficient		Pipe Area A:	7.069 square feet
4.00	ft (h1), maximum head	h=D+h1	(2gh)^.5:	21.22 ft/sec
36	inch pipe diameter D	7.00	Q = CA(2gh).5:	90.00 cfs

Horizontal, sharp-crested weir.
48x48 inlet at 90 cfs

Input Parameters		Output Parameters		
3.25	C, weir coefficient	Pipe OD	61 inches	
1.44	h, maximum head	Pipe circumfrence, I:	16.00 feet	
53	inch pipe i.d.	Q = CIh^(3/2):	90.00 cfs	4'x4' CAST DI
4	inch wall thickness	Eqivalent square:	4.00 feet	
			48.0 inches	



WORST CASE SCENARIO AT DI #2 IF DI #1 FAILS
EXPECT Q = 34 CFS VS 90CFS SHOWN SO DEPTH @ ~ 1/3 THAT SHOWN. DI WILL HANDLE DESIGN AND WORST CASE FAILURE FLOWS. WITH 0.6' FREEBOARD TO BYPASS.



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200 FOURTH ST. SUITE 400 P.O. BOX 878 SANTA ROSA, CA 95402-0878
PHONE 707.547.2000 FAX 707.526.2746 WEB BEYERSCOSTIN.COM
A PROFESSIONAL CORPORATION

July 14, 2006

VIA HAND DELIVERY

John deCourcy
Building Division Manager
Sonoma County Permit and Resource Management
Building Division
2550 Ventura Avenue
Santa Rosa, CA 95403-2829

Re: Pahlmeyer/County of Sonoma
BC File No. 5777

Dear Mr. deCourcy:

Pursuant to our meeting of last Friday, July 7, 2006, I enclose Ray Carlson's survey work showing the north boundary of the Pahlmeyer Vineyard property, the boundary line agreement between Mr. Pahlmeyer's predecessor-in-interest, the Davises, and their neighbors the Richardsons, and a copy of the unexecuted, but performed, lease between Mr. Pahlmeyer and his neighbor Mr. Nobles.

I will follow-up with a call this afternoon to discuss the status of this matter. Thank you.

Sincerely,

Dictated But Not Read

Thomas Davenport

TD/crc
Enclosures

cc: Debbie F. Latham (w/encls.)
Client (w/o encls.)