



6RD09-0058

Permit Number

1733

Street Number

Skillman LN

Street Name

DET

Community Code

048-091-003

APN

Guadalupe S. Chavarria, PE RCE 37970

1/2

May 19, 2009

Mr. John Rainwater, Pe

PRMD

2550 Ventura Ave

Santa Rosa Ca, 95403



MAY 1 9 2009

PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT
COUNTY OF SONOMA

Subject:

Landscape Grading for Two Lot subdivision formerly

1663 Skillman Lane, Petaluma CA KC Goltermann owner developer

Mr. Rainwater,

This letter addresses supplements the storm drain report for the SUSMP requirements two year storm for the proposed landscape improvements.

The proposed landscape improvements will not alter the drainage patterns or the amount of drainage from the site.

Area	Prior coefficient	Post coefficient
Lot 1 grassy berm area 0.15ac out of 2.73 ac or 5.5%	0.43	0.43
Lot 2 pond area 0.16 ac out of 3.15 ac or 5.01%	0.42	0.42

The pond area is approximately 6,993 sf for the two year storm. To fill the pond up two feet the 2 year storm will require 12 hours. After it fills the additional flows rain would then continue on its same flow patterns. The water would then be evaporated out. There will be no berm around the pond. It is important to note that this pond will be in the flood zone. It will increase holding capacity of the area therefore lessening the flood impact.

Hopefully this addresses the two year SUSMP concerns. Please call me if you have additional questions.

Sincerely,

Guadalupe S. Chavarria, PE

Enclosure pond calcs

Copy: KC Goltermann

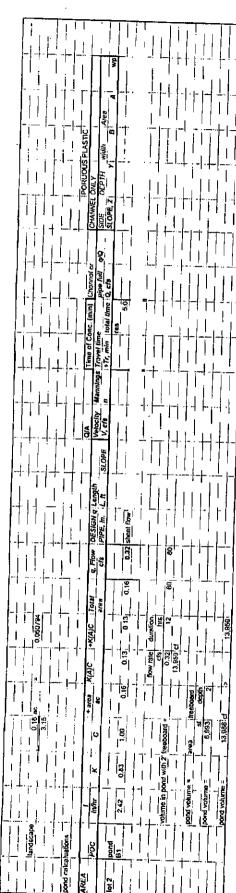
P.O. Box 1782, Windsor CA 95492

Cel 799-5432 Fax 707-838-9748

Faxed 565-1103

1663 skilimen lanc

tel 707-799-5432 fax 707-838-0748



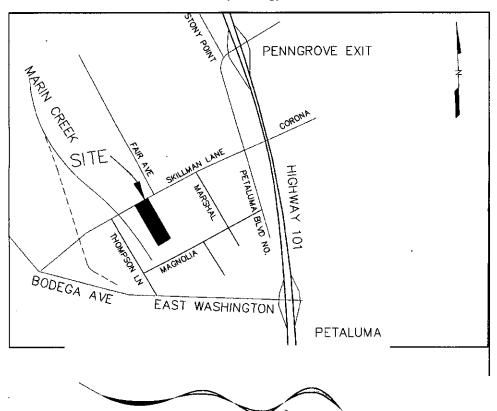


S.q

gschavama P.O. Box 1782 Windsor CA

Proposed Landscape Improvements [733 4663 Skillman land Petaluma Ca

April 27, 2009 Hydrology



Guadalupe S. Chavarria, PE Land Development Civil Engineer CA LIC. 37970

707-799-5432 P.O. Box 1782 Windsor CA 95492

fax 707-838-9161 gchavarria1®yahoo.com

Calculations

- 1. 10 before and after
- 2. C Determinations, Appendix
 - 1. sewa rain contours

Reference:

- 1. SCWA Standards
- 2. flood control map



Gsc land engineering

METHODOLOGY

Rational method using the sewa standards. TC = 15 MIN 10 year for onsite

Waterway classification

This is a minor water waterway less than 1 square mile, 10 year. This area is part of the Marin creek watershed area. The area is mostly defined by open grassland of 2-5% slopes with wide depressions that convey storm runoff by sheet flow. There are no major or defined creeks on the east side of Marin creek.

Mapping

Field survey and applying c values for a 2 acre minimum per allowable zoning for the area..

Analysis

For this analysis I assume that the subdivision improvements are built and the analysis is about reviewing the after improvement conditions.

There were two sets of calculations done for this analysis, using the 10 year occurrence for both lots 1 and 2. The improvements for the landscaping include a landscaped berm and in ground pond

The expected runoff from the berm is not expected to increase the permeability and or change the sheet flow to the low point on lot 1. The area from the 0.14 ac with a c of 0.40 which is less than 0.43.

The expected runoff from the pond is also negligible since the pond will have 2' of freeboard with an approximate depth of 8'.

In both cases the permeability did will not be increased or the point of exit or the manner in which it leaves the property will not be altered.

The pond in lot 2 lies within the potential 100 year flood zone. All dirt from the new pond will used for building the berm area.

Time of concentrations and flows assumed 15 min as was used in the subdivision calculations

Findings

Flow rates for the proposed rates for the subdivision were not changed as shown on lots 1 and lot 2 western borders

Gsc land engineering

Appendix

- 1. 10 year calculations existing conditions
- 2. hydrology map overall and onsite
- 3. hydrology map overall and onsite
- 4. 100 calculation along east street for verification

Basis of calculations

The Sonoma County Water Agency standards Rational formula

Q= KCIA

The C appropriate runoff factor have been calculated for each typical case.

Hydraulic calculations use k * v^2/2g factor. Where K is determined as follows

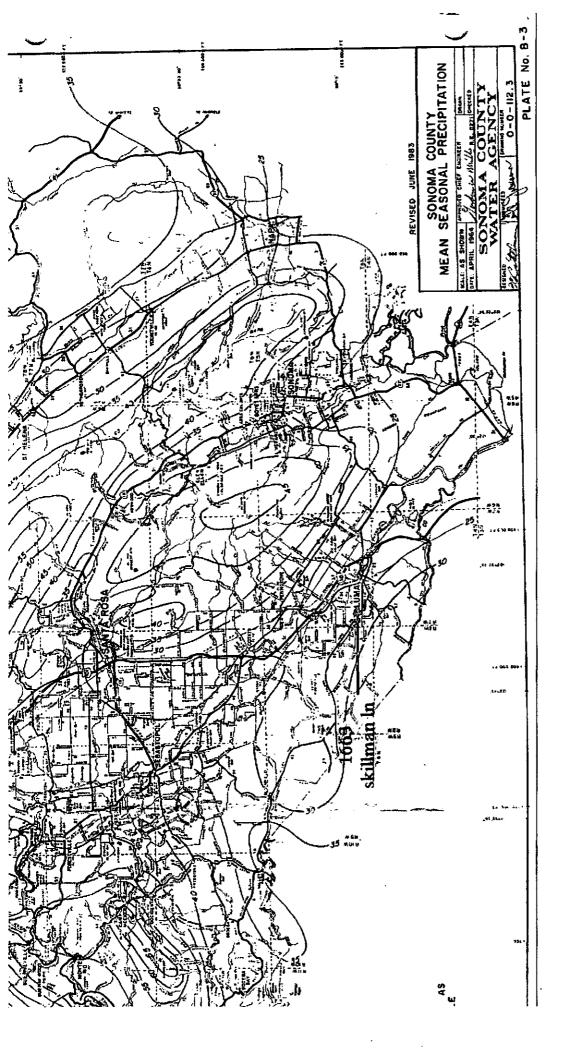
k values Type of structure

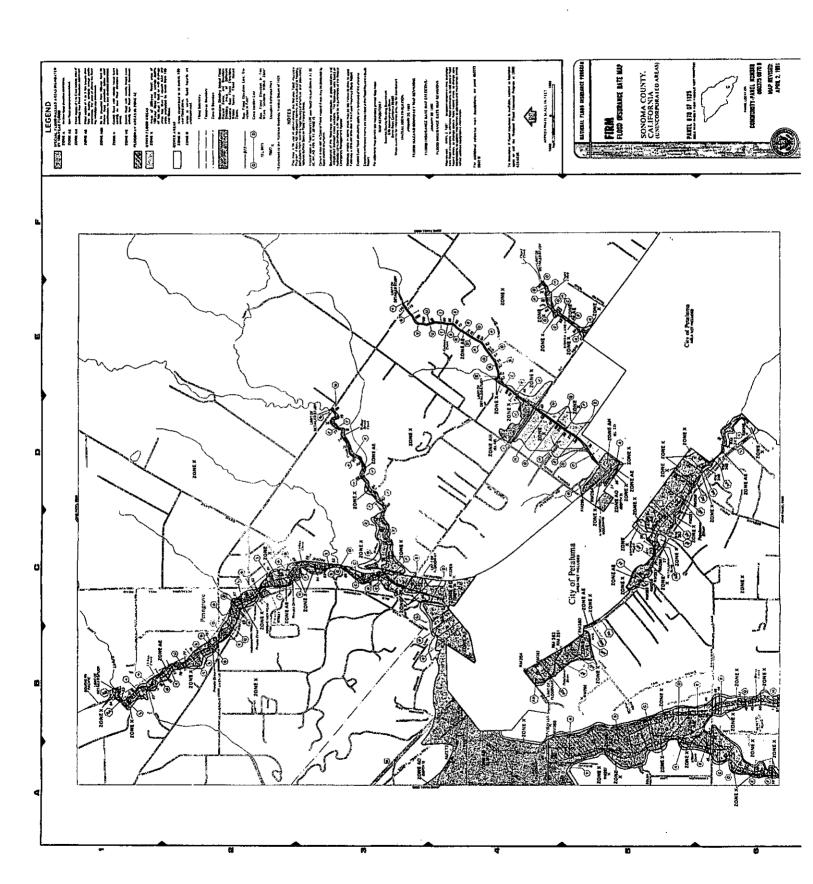
- 0.25 Straight run with change in pipe size
- 0.17 Straight run with same pipe size
- 0.50 0 to 45 deflection with change in pipe size
- 0.42 0 to 45 deflection with same pipe size
- 0.75 45- 90 deflection with change in pipe size
- 0.75 45-90 deflection with same pipe size
- 1.00 Approaching 90 deflection
- 1.25 90 deflection
- 1.40 Drop manhole
- 0.35 Short radius curves (50' or shorter

In areas where the calculated flow line is less than the flow ine of the pipe the flow line of the pipe plus the normal depth was used. In cases where the pipe was not full a percentage of the normal depth was estimated according to the figure 20 of hydraulic elements for circular pipes.

Santa Rosa drainage inlet capacity

Inlet capacities are provided in chart form.





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COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT 2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Your Name: JOHN K		TERMAN	Applica.
pas ne managamentary population and most appropriate to the second management			E TO BE COMPLETED BY APPLICANT
Site Address: 1722 Su		TE LOCATION INFOR	RMATION PRINT CLEARLY
Site Address: 133 5k	TITUTAN	<u> </u>	City: PETALUANA ZIP: 9495 Z
- 1016 70	ENUE		t3-01-00 Phone # (10 / D3 11 Fax # (10) (652)45
Directions: (ETALUNIA BLUD	· N. TD :	SKILLMAN	Name # #
SUBDIVISION R	EQUIRED.	•	Living Area Contract Price:
ROADWAY.			Decks
OWNER NAME	AND ADDRESS	· 李龙·	APPLICANT NAME AND ADDRESS
Name: JOHN KC Go	LTERMAN	x1:	Name: same as Engineer
Mailing Address: 316 PETAL	JINA BLUD		Malling Address:
CITY: PETALUNA	State: CA	ZIP: 94952	City: State: ZIP:
Day Ph: (107775 2525	Fax: 707 76	52145	Day Ph: () Fax: ()
CONTRACTOR	NINFORMATION 1		ÖTHER PERSONS (ARCHITECT, ENGINEER, ETC.)
Company Name:	*		Name: Lupe Charlastria
Address:	· · · · · · · · · · · · · · · · · · ·		Address: 1210 Sunnau Ct
City:	State:	ZIP:	City: Windoor State: CA ZIP: 95401
Day Ph: ()	Fax: ()		Day Ph: (), /31 - 5531 Fax: ()
WORKER'S COMPEN	SATION DECLAR	RATION	License No: (. 37970 Exp. Date: 3 3)
I hereby affirm under penalty of perjury one of the f	following declarations: sent to self-insure for work	er's compensation as	
provided for by Section 3700 of the Labor Co permit is issued.	ide, for the performance of	the work for which this	CONSTRUCTION LENDING DECLARATION [I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of
☐ I have and will maintain worker's compensat	ion insurance, as required	by Section 3700 of the	the work for which this permit is issued. (Sec. 3097, Civ. C.).
Labor Code, for the performance of the wo compensation insurance carrier and policy nun	ork for which this permit is	issued. My worker's	Lenders Name
Carrier			Estado Addidos
Policy No.			AP GO FOR DEPARTMENT USE
(This section need not be completed if the permit is for one hundred dollars (\$100) or less).			Zoning AR 76 1 VOV File No. M N. ST - CO 10 Acres (Existing Use/Structures TFD (AND ACTES TO FILE OF THE COURSE)
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 Spotion 3700 of			Proposed Use/Structures RCAD GRECIEM
the Labor Code, I shall forthwith comply with those provisions			NOTE: Fire Safe Standards require all parcets greater than 1 Acre to have a min. 30' setback
Exp. Date: Applicant:			unless mitigated. ☐ Mitigation Required ☐ Address subject to change Approval for Permit Issuance: Approval for Octupancy:
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			Ву:
THOUSAND DOLLARS (\$100,000), IN ADDITION	ENALTIES AND CIVIL FINES TO THE COST OF COMPEN	SUP TO ONE HUNDRED	1/2/2
PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.			Date: Date: Date:
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			
requires the applicant for such permit to file a sign	or repair any structure, prid ned statement that he or she	or to its issuance, also	Sewer Connection: Available
the provisions of the Contractor's License Lav Division 3 of the Business and Professions Code	v (Chapter 9 (commencing	with Section 7000) of	2.0001 88
for the alleged exemption. Any violation of Secti applicant to a civil penalty of not more than five hi	on 7031.5 by any applicant:	for a permit subjects the	Approved by: Date:
□ I, as owner of the property, or my employees	with wages as their sole co	ompansation, will de the	Road Encroachment:
work, and the structure is not intended or offic Code: The Contractors License Law does	ered for sale (Sec. 7044 Bu	siness and Professions	Approved by: Date:/28 /0 9
improves thereon, and who does such wo employees, provided that such improvements	rk himself or herself or th	arough his or her own	Septic System Permit/Clearance # N/R
building or improvement is sold within one v	ear of completion, the own	eribuilder will have the	Approved by: 1 a) Nguge Date: 4/20/09
burden of proving that he or she did not build on I, as owner of the property, am exclusively co	intracting with licensed cont	tractors to construct the	Flood Zone: Yes No 100 Year Flood Elevation:
project (Sec. 7044, Business and Profession apply to an owner of property who builds or im	proves thereon, and who co	License Law does not ntracts for such projects	Site Review
with a contractor(s) licensed pursuant to the C I am exempt under Sec, B & P.C	ontractors License Law \		
reason			Approved by POINNOTE Date: 1/20/07
Date 4-17-09 Owner	4/1/////		Approved by Ball A 17 09
LICENSED GONTRAC I hereby affirm under penalty of perjury tha	t I am licensed under or	ovisions of Chapter 0	
(commencing with Section 7000) of Division 3 license is in full force and effect.	of the Business and Prof	essions Code, and my	Code Enforcement Violation Yes No Violation#
•			This permit is limited todays.
		, <u> </u>	
Exp. Date Contractor			
Written asbestos notification pursuant to Part 6	DECLARATION 1 of Title 40 of the Code of	Federal Regulations is	Work Authorized: SRAPING PER APPROVED SUBDIVISION IMPROVEMENT PLANT DATED 4/14/09 BY GUADALUPE CHAVARRIA
required when asbestos exists in buildings, or declare that demolition authorized by this permit.	portions thereof, undergoin is from construction that (C)	a demolition I hereby	4/14/09 BY GUADALUPE CHAVARRIA
contain asbestos, or that 🗅 no demolition is author	orized by this permit.	, (= 3000 1101)	
I certify that I have read this application and affirm	n under penalty of perjury th	hat the above information	☐ Plans Approved ☐ Post FiRM ☐ Alquist Prioto Report Available ☐ No Plans Subject to Field Inspection ☐ Pre FIRM ☐ Geotechnical report Available
is correct. I agree to comply with all local Ordina I hereby authorize representatives of the Cour	nty of Sonoma to enter upo	on the above-mentioned	Planchack Date:/ Type of Occupancy No. of No. of
property for inspection purposes. It after me Compensation provision of the Labor Code I sho	Tild hecome subject to such	money Stormer Levelle South and the	\$ 4/20/129 Construction Stones Bedrooms
comply. In the event I do not comply with the deemed revolved.	Workman's Compensation	law, this permit shall be	Permit Cleared Date: Auto. Fire No of Units Certificate of
			Sprinklers Regid Occupancy
BERMITTEE SIGNAFORE	VD. SI. PERGU	94957	Machine Space to Dentil Sales
ADDRESS PETALUMA	CITY CITY	ZIP ZIP	Machine Space for Permit Fee
□ Contractor □ O	her Licensed Professional		j j
			APR 2 2039
Final Date: Inspec	ctor:		<u>5</u>
	•		TWELL AND THE SERVICE OF THE SERVICE
THIS PERMIT SHALL EXPIRE IN THE	REE(3) YEARS FROM	DATE FEES	16.3 May 22 20 100 1
THIS PERMIT SHALL EXPIRE IN TH ARE PAID UNLESS OTHERWISE N	REE(3) YEARS FROM (DATE FEES DRCEMENT	Distribution Water - File Canary - Additional Pink - Audit Copy Blue - Assessor Cardstock - Inspector

131)	· SPECIAL INSPECTION REQU		☐ YES	O NO IF YES, SEE ADDITIONAL SHEET
<u> </u>	INSPECTION RECORD	DATE	NAME	REMARKS
101)	ROUGH GRADING		<u> </u>	
103)_	FOUNDATION FORMS/SETBACK			
<u> </u>	FOOTING			
	WALLS			
106)_	UFER GROUND #			
104)	CAISSONS/PIERS			
105) 107)	SLAB UNDERGROUND UTILITIES			
110)	MASONRY			
109)	RETAINING WALLS			
113)	FIREPLACE			
	FOOTING			
	HEARTH/PROTECTION			
114)	THROAT CHIMNEY			
120)	UNDERFLOOR/UNDERSLAB			
115)	HYDRONICS			
116)	U/F ELECTRICAL			
117)	U/F MECHANICAL U/F PLUMBING			
118) 119)	U/F PLUMBING U/F FRAMING			
139)	U/F INSULATION			
126)	SHEAR WALLS			
	NTERIOR EXTERIOR			
127)	DIAPHRAGMS			
	ROOF FLOOR			
134)	SIDING/SHEATHING HOLD DOWNS			
125) 132)	CLOSE-IN			
122)	ROUGH ELECTRICAL			
123)	ROUGH MECHANICAL			
124)	ROUGH PLUMBING			
128)	ROUGH FRAME	ļ	-	
160) 139)	SMOKE DETECTORS INSULATION			
142)	WALLBOARD			
143)	FIREWALLS			
135)	STUCCO/PLASTER			
	LATH SCRATCH			
137)	ROOFING	<u> </u>	ļ	
130) 162)	TUB/SHOWER PAN FIRE DAMPERS/DOORS		 	
164)	SUSPENDED CEILING			
·	ROUGH ELEC.	CH.	J	
165)	EXITING - RAMPS/STAIRS			
163)	HANDRAILS/GUARDRAILS			
166	CORRIDORS/DOORS			650) SUSMP INSPECTION
166) 144)	ACCESSIBILITY COMPLIANCE WATER TANKS			650) SUSMP INSPECTION 651) NPDES EROSION COMPLIANCE
	SLAB	L	.1	652) NPDES SEDIMENT COMPLIANCE
170)	TEMPORARY OCCUPANCY			653) NPDES DOCS/SWPPP
171)	TEMPORARY ELECTRICAL			FIRE INSPECTION REQUIRED DATE NAME
172)	TEMPORARY GAS		<u></u>	Yes No
174)	ELECTRIC METER AUTHORIZATION			759) KNOX BOX 760) PROPANE TANK HOLD DOWNS
152) 189)	PANEL BOARDS/SERVICE SEPTIC ELECTRIC FINAL			770) PROPANE TANK HOLD DOWNS 770) SPRINKLER FINAL
175)	GAS METER AUTHORIZATION	 	 	771) ABOVEGROUND HYDROSTATIC
153)	GAS PRESSURE TEST			772) UNDERGROUND HYDROSTATIC
	HOUSE YARD			773) UNDERGROUND FLUSH
190)	MANUF. HOME FOUNDATION			774) THRUST BLOCKS
191)	MANUF. HOME INSTALLATION CONTINUITY		 	775) PIPE WELD 776) HYDRANTS/APPLIANCES
	STAIRS/SKIRTS		·	775) PIPE WELD 776) HYDRANTS/APPLIANCES 777) PUMP ACCEPTANCE
	RIDGE BOLTING		-	778) WATER SUPPLY/TANK
193)	MANUF. HOME COND. FINAL			779) ALARM SYSTEM
	SWIMMING POOLS			780) HOOD & DUCT SYSTEM
194)	PRE-GUNITE		-	781) ABOVEGROUND TANK/DISPENSER
195)	PRE-DECK			198) FIRE FINAL
196) 197)	PRE-PLASTER/FENCE VINYL/FIBERGLASS POOL EXCAVATION		 	CLEARANCES: FIRE
102)		8/2/N	7 SP (HEALTH DEPARTMENT
176)	ELECTRICAL FINAL	יטופונס		ZONING
177)	MECHANICAL FINAL	/_/_	1	SANITATION
178)	PLUMBING FINAL	0-1-1-	nh	
199)	FINAL OCCUPANCY (OK TO OCCUPA)	104 <i>13/0</i> 4	1 SH	PLAN RETENTION REQUIRED?
i	OCCUPANCY (OK TO OCCUPY)	$\perp L / L$		2 ¥es □ No