"G"

Wastewater Feasibility Study

A. J. MOORE ASSOCIATES

ARCHITECTURE & RESTORATION ENGINEERING 1038 Stonybrook Drive, Napa, California, 94558 Ph-707-253-9310; Cell-707-486-8574; ajmanapa@gmail.com

ALAN J. MOORE, AIA ARCHITECT

County Project No. P15-00020

May 31, 2016

Planning, Building, & Environmental Services: Environmental Health Division

1195 Third Street, Suite 210, Napa, CA, 94559

ATTN.: Jason Hade, AICP-Office 707-253-4417

Direct-707-299-4298; jason.hade@countyofnapa.org

Copy: Ms. Kim Withrow, Supervisor-

Office- 707-253-4471

WINERY USE PERMIT APPLICATION REVISION No.4

RESPONSE LETTER to ENVIROMENTAL HEALTH Division Comments Mc VICAR VINEYARDS APN 034-160-008

6155 Solano Avenue, Napa, CA, 94558

Dear Ms Withrow

Per your Review Memorandum comments, the proposed serving of cheese or nuts (in addition to crackers and wine) has been deleted on the original Application Request page 10 of 29 where they were stated. A copy of that page marked 'Delta-4' is attached.

The copy of the Complete Original SEPTIC Sewer System Design Set is also appended along with a recent Inspection Report on the Tank and Field conditions; the review indicated excellent to good condition.

Attached is the Napa County Existing Individual Septic System Inspection Report with all pertinent field-confirmed details and sizes noted. Also attached is an "as-built" drawing (8.5"x11") attached to indicate for the record what is physically existing (overall plan and details) and working in good order.

Respectfully Alan J. Moore, AIA



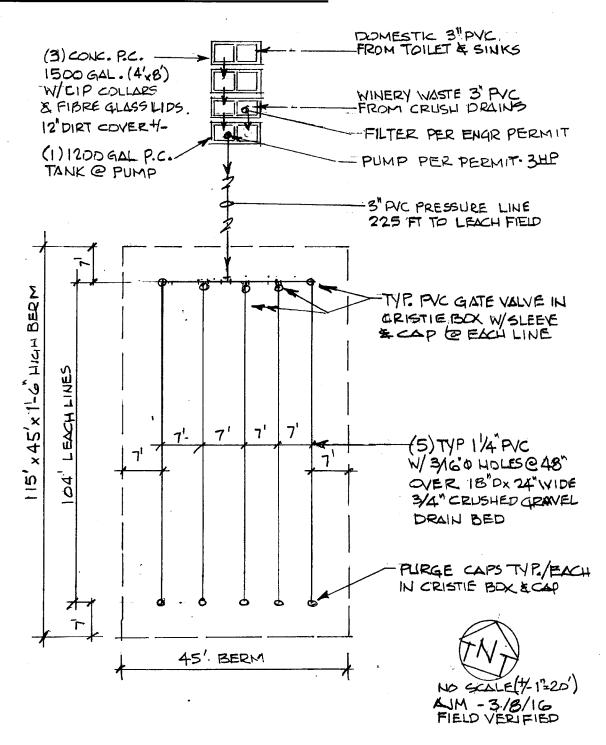
A. J. MOORE ASSOCIATES

ARCHITECTURE & RESTORATION ENGINEERING

6155 SOLANO AVENUE, NAPA McVICAR VINEYARDS WINERY USE PERMIT APN 034-160-008 County Project No. P15-00020

Page 2 of 2 REV. May 31, 2016

Existing Septic Field 'As-Built' Plan



NAPA COUNTY DEPARTMENT OF ENVIRONMENTAL MANAGEMENT EXISTING INDIVIDUAL SEPTIC SYSTEM INSPECTION REPORT FORM

PROPERTY OWNER PLTSY McVicar TRUST DATE 3/8/16 ADDRESS 6155 SOLAND AVE NADA APN 034/616/008
ADDRESS 6155 SOLAND AVE NAPA APN 034/616/008
PRIMARY TREATMENT-SEPTIC TANK
Distance to closest well: This parcel: 100 Adjacent parcel: 1000 Date tank was last pumped Feb. 2016
Distance from foundation 60 Pumped by ROTO ROOTER
Distance from property line 60 Pre-fab tank o r poured in place (describe) P-C- Couc.
Material-tank Concrete Concrete Mumber of compartments 4
Inside length o' width o' depth 5! Total Capacity 1200 Gal For Pump
SECONDARY TREATMENT-DISPOSAL FIELD (if other than leach field describe below)
Distance to closest well: This parcel Adjacent parcel 1000
Distance to property line 250' Distance from foundation /75'
Total length on leach line 100' Total effective sidewall
Type of filter material Rock Assistance Amount of filter material: 13 Yards Per Line Type of pipe Pvc 1/4" Number of lines 5
Depth of cover over rock: Above pipe: 2" Below pipe: 16"
Trench width: 24" depth 21/2"
GENERAL INFORMATION Is the house/structure presently occupied? My How many bedrooms? None
Is the house/structure presently occupied? <u>Mo</u> How many bedrooms? <u>None</u> If commercial use-how many employees (FT and PT) <u>Mone</u> <u>Af present fine</u>
How many units served by this system () Tollet (D Hand Basin O kitchen sink
Any other septic systems on the property No If yes, how many?
CONDITION OF SYSTEM
Make a statement on the condition of the septic tank and interior surfaces, including baffles and fittings. How was
this determined? Note: If tank is over five years old, it <u>must</u> be inspected (pumping is required to allow inspection).
After Pumping tank cheek wans bottom, Buffles and lids on fine
Note that the sandition of the manufacture (if annicable) in the discount of the structure of
Make a statement on the condition of the sump/pump (if applicable), including size, alarm, structure, etc. Sump pump tank holds 1200 Gallon Test manual and floats working fine
Sump pump tank holds 1200 Gallon Test manual and floats working rine at Present time.
Make a statement on the condition of the distribution box, leaching lines, etc. How was the length and location of
the disposal field determined_
Lead Ried and D. B. was not have no Cine System is bein Brownie
Leven field and D-Boxes are working fine system is bein Presuraise Note: Information on disposal field must be determined by physically locating each line by exposing the ends. All
distribution boxes must be uncovered and inspected.
A PLOT PLAN OF THE SEPTIC SYSTEM AND ALL OTHER IMPROVEMENTS MUST BE ATTACHED TO
THIS REPORT-DISTANCE TO PONDS/STREAMS, WELL BUILDINGS, ETC. MUST BE SHOWN
(Licensed Contractor) Poster Proster
Note: In order to secure clearance of an individual sewage disposal system from the Department of Environmental Management, the system must be inspected by a licensed sewage contractor and the completed form returned to our office for evaluation. It should be accompanied by a plot plan showing the septic system, wells, buildings and

For Service or Repair Call:

Fairfield 707-429-5151

Vallejo 707-642-9200

Vacaville 707-448-5551

Dixon 707-678-5113

Rio Vista 707-374-5678

Benicia 707-747-5557

Napa 707-224-2433

Upper Napa Valley 707-963-7934

AT Morreal SSOC.

Condition of Septic	System as of	1-8-16	date	
Owner: PATSy M	eVICER Job:	6/55	Solmo	おひを
		NAJA		
	Excellent Condition	Average Condition	Poor <u>Condition</u>	
Lid Inlet Baffles Outlet Baffles Center Baffles Side Boards Bottom Incoming Lines Outgoing Lines (Drainfield)				
Work performed and comm	ents:			
Recommendations:				
Contractors License #80364	4 1	Inspected by: Dela	2)mh	

This inspection was performed on the date above. Septic systems may vary in working capacity according to soil conditions, weather, amount of water usage by the numbers of persons using the system. Property owners should realize they are running their own sewage of the lines, and regular usage of chemicals for bacteria and degreasing)

RESIDENTIAL - MUNICIPAL - INDUSTRIAL - PLUMBING OR DRAIN CLEANING

THEODORE J. WALKER REGISTERED ENVIRONMENTAL HEALTH SPECIALIST 2280 PLEASANT HILL RD. SEBASTOPOL. CA. 95472 829-6854

April 24, 1992

Mr. Nate Passaglia and Ms. Jeanna Michael Napa County Environmental Health Services 1195 Third St. Napa, Ca. 94559 APR 2 7 1992

DEPT. OF ENVIRONMENTAL MANAGEMENT

Re: Revisions for Chias De Napa Winery, 5253 Solanp Avé., Napa Ca., Sid McVicars Owner

Dear Nate and Jeanna:

Enclosed are revised plans for the proposed small winery mentioned above. Recently, Mark Phillips of P and R Septic, myself and your department have had conversations regarding the design of the wastewater disposal design. Per your request, I have received permission from Blair Allen from the Regional Water Guality Control Board to delete sand from the bottom of the trench in lieu of standard drain rock.

Blair Allen did not give permission to utilize the square footage of the trench bottom in calculating the size of the system. Therefore, this has been modified.

In addition, the recent percolation rate for the area of the proposed system has been estimated at 1-3 inches per hour. In my original design, I utilized the most conservative rate allowed at .20 gallons/square foot/day. Therefore, the system can be actually reduced in total size. In dicussing this with my client, he has chosen to reduce the size of the system from the original design.

Therefore, the revised sizing of the system is as follows:

Using the estimated percolation of 1-3 inches per hour, the percolation rate of 60 minutes per inch converts to .74 gallons per square foot per day. Using the sidewall factor only (liquid area below the pipe), we use .8 feet per lineal foot (for one side), and 1.6 feet per lineal foot (calculating for both sides): Therefore, we use the following equation:

Proposed 550 gallons per day (peak load)
.74 gal/sq.ft./day X 1.6 sq.ft./lineal foot =

550 gallons 1.18 gai./lin.ft. = 466 lineal feet needed Note: Will install 500 lineal feet for a safety factor. There is adequate expansion area, the system will be a Fressure Distribution System, and the trench width will be 24 inches wide instead of 36 inches wide.

Should you have any question, please call be at 829-6854.

Yours truly

Theodore J. Walker,

Registered Environmental Health Specialist

#4323

cc: Sid McVicars

F & R Septic

Blair Allen, WQCB

NAPA	CO	UNTY	ORD	IN.	ANCE
NUMBE	20	885			

PERMIT	NO.	

NAPA COUNTY DEPARTMENT OF PUBLIC WORKS

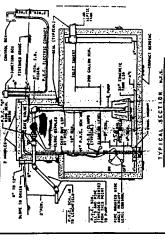
APPLICATION FOR FLOOD PLAIN MANAGEMENT PERMIT

1195 Th Napa, C	ounty Departmenting Street, Ro CA 94559 253-4351	nt of Pub com 201	olic Works		
,			252	- 6866	94581
(mar	2411(105) 12	12 5/2	מדנו בעב דד	10 C cm	Bar 6336
PLEASE PRIN	PHICCIPS) P NT) Applicants	Name	Address	Tele	phone Number
5/1/	Mc UICH	·/\	1447000		
	/		ragress	rere	phone Number
HOFFMA	N LW/ SULA	TO AUC		34	- 160-08
		•			
Project Desc	ription	EITIC	545150	FOR SMA	LC WINERT
		,	,	~~~~~~~	
					•
·	t \$THE APPLICANT				
				LISTED BELOW	
	REQUIRED	BY OTHER	R AGENCIES AS		!
*****	REQUIRED OWNER AND A	BY OTHER	R AGENCIES AS	LISTED BELOW	!
*****	REQUIRED OWNER AND A	PPLICANT	REVIEW AND S	LISTED BELOW	IDB *******
************	REQUIRED OWNER AND A	PPLICANT	REVIEW AND S	LISTED BELOW	IDB *******
Application \$50.00 Fee 1	REQUIRED OWNER AND A ************** Received by	PPLICANT	R AGENCIES AS REVIEW AND S	IGM REVERSE S ***********************************	IDB
Application \$50.00 Fee Project is	REQUIRED OWNER AND A ************** Received by	PPLICANT	R AGENCIES AS REVIEW AND S	IGM REVERSE S ***********************************	IDB
\$50.00 Fee I	REQUIRED OWNER AND A ************** Received by	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB *******
\$50.00 Fee I	OWMER AND A ********* Received by Receipt No. in Floodplain/	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB
\$50.00 Fee I	OWMER AND A ********* Received by Receipt No. in Floodplain/	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB
\$50.00 Fee I	OWMER AND A ********* Received by Receipt No. in Floodplain/	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB
\$50.00 Fee I	OWMER AND A ********* Received by Receipt No. in Floodplain/	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB
\$50.00 Fee I	OWMER AND A ********* Received by Receipt No. in Floodplain/	PPLICANT TO BE CON 155	REVIEW AND S	IGH REVERSE S *********** STRICT Date Date Date	IDB
\$50.00 Fee I	REQUIRED OWNER AND A ********* Received by Receipt No. in Floodplain/ INDINGS AND CO	PPLICANT TO BE CON 155 Ploodway MMENTS	REVIEW AND S	IGM REVERSE S *********** STRICT Date Date Date	5/6/92 3.5 MSL X
\$50.00 Fee I	REQUIRED OWNER AND A ********* Received by Receipt No. in Floodplain/ INDINGS AND CO	PPLICANT TO BE CON 155 Ploodway MMENTS	REVIEW AND S	IGM REVERSE S *********** STRICT Date Date Date	IDB

**

- Ampulred Features of the Supp (see detail):
- A. Minkam working organisty of 1500 gallone, includings 1. 250 gallon done impedition. 2. Minkam 1500 gallon additional storage comments between the high paper alone and the land.
- Concrete tanks shall be of somilithe certing or have joints sealed with Thingslay or ether approved sealants. Concrete same shall be protected with Tapes" or Thorosoni's.
 - Riser shall extend to at least 6 inches above the finished grade. Histor shall be sealed valuatifult to be own cheshop desired to be now cheshop to the manual state of the state approved materials.
- All pipes and/or elemental confuses estaring the sump chamber shall be 980 and untertight. Stort or asybalt emulator is not an emperchise sealest. Ministra 24" meshole with pas-tight 11d. <u>.</u>
 - III. Required Peatures of the Prime
- Plosts for the pump and a high water table alarm shall be moved to a correlator resistant pola (mouted inside the emp chapter) that one he removed for maintenance (see decail). ä
 - The pump shall be numered on a 4° concrete block at the botton of the bump chamber. Required Sleatwicel Pestures
- In the manufactor comments of the same appearing the same and the same appearing to the same appearing the same appearing to the same appearing th
- A mechanical vide signs from owind for starting and scoping the pamp is required. The motor control has shall be equipped with a promotory control term (Bank-Officians) which we will be control to the control of a promotory control term (Bank-Officians)
- Institute series on the prop and to the time delil being the series of t
- Where setering the Semp, a minimum 3" ANN oc 9VC Schedule of still Semilibe cost in place or sealed with Thoroglyg or other websproof material. tionism 1 1/6 PVC Schedule 46 from pump to the leachfield is suppliced table
 - A 3/16" dilmeter deti-cipton and air vent hole.

 - FWC swing or ball sheet water.
 - PPC pates of hall spilve and union(s).
- High points in the transmission line after the sum may say stronges an Air Sailes Takes, depending upon the deadyn



The areas in which Fift is to be placed shall have all vegetation resorted by:

- A. Besoving all brush and trees with trusk diameter of tase than 10° with the mas of a treed-uppe vehicle orth as a creater loader. It is not not to the fi. All markes of gresses that De mooned to the lowest possible height and grass clippings removed.
- Contractor shall stake out the proposed leachlines on contour with the use of a transit or laser level. The contractor shall oall the designer for inspection and watfloation before proceeding.
 - Contractor shall excavate landlike trendes as shorn on detail. The contractor shall buil the designer and Fag County Saulth Department for impaction prior to invalida appraisa. Contractor shall possible investigation of boccos state of transfer before placement of general.
 - Controcut shall lastal the graval, connect the pressure pergraphic angeria to the treaslesson line, and shall proper the pyres for the spiration equity test (holes the pertent and the desirest for an impaction.
- Contractor shall complete the trench work and place the fabric over the gravel as shown in the detail. The contractor shall then proceed with the placement of the Fill.
- with the series in which This is no be placed manifes integred of makes ploned with the righest or plone speed 6 to 1 to come of the company of the company
- This wastern maintains to the same not terine, considered, and alternative to be proposed as the properties of the first material and its bequest to the better than the senting and the properties of the first sound to be the first than the senting and the properties of the first sound and the senting and the sent that the first sound to be the first sound to be the first sound that the properties of the properties of the first sound that the sent that the first so the properties of the first sound that the sent the sent that the sent the sent that the sent the sent that the sent the
 - Figithed expending to expendent with a trace-type which. The Jike shall be seeded with smearly and the seeded with smearly state to the seeded with seed to be seeded with the seeded with the
 - "The constructor mail larvall the deptic banks, sump than a manufactor limit and the deptic banks, sump than a manufactor limit of that is shown on the plans. The designs and lape Committee Deptication of the plans. The designs and lape Committee the designs and lape Committee the designs and lape Committee the designs and the Committee of all requires impaction.
- The designer shall send an installation and inspection motification letter along with a copy of "he built" plans that indicate any modifications which took plans permit approval. ij

- The designar shall impact the sits and weather conditions prior to construction of the system. The designs must weigh dry and acceptable soil and weather conditions for construction, and decids if conditions are suitable to begin construction.
 - The designar shall worldy (with the contractor) the proper staking of the system froir to any construction. The system destalls, configuration, location, contour, parculation area, etc. abil he worlded.
- The designst or contractor shall notify the Health Department a salamen of 24 hours in advance of when construction is to begin said certify that the soil conditions are exceptable construction purposes and that the staking of the system has been computation and certified.
 - All meetings and inspections shall be acheduled with the designer as minama of 48 hours in advance. These shall include as a minimum

LEAGLINES SHALL SE CORRECTED AS INDICATED ON THE DEFRAILS. THE HERTING, SHALLING THE PRESENCE WANTE, AND DESCRIPTIONS, THE STREET OF THE LEAGURING SHALLING SHALLING

THE PERSONS DISTRIBUTION LATERALS FIFE SEALS BS 1.35" (INSIDE DIABETE) PV SCH 44. PERPONATIONS SHALL BS 1/16", SPACED AT 48 INSIDE ON CHATTH, PLACED DOWN IN THE PERSON. THE LOCATIONS FOR LEACH LINES AND APPROXIMATE; FIRAL LOCATIONS ARE TO BE DETERMINED IN THE FIRED.

÷ • ÷ ż

ADJUSTING AND FURCE VALVES ROLLS HE FLACED IN FLACETIC OR CONCETTE OR CONCETT OR CONTEST FOR SHAPE OF CONCETTE DOIL.

THE FIRST FIVE PART OF FIVE FROM THE DIFFERENCES BOX SHALL, BE SEEN-PREVIOLATED FIVE (SEEN-DOUDD PT CONFESSE) SALVED FALLY BLATTH, CONSESTED OF THE PREVIOUS PIPE OF THE BACKERISH, THE SOLID LINE IS BEEN CARRIDGED AS CONTRIBUTION TO THE REQUISED TOPIAL LINEAL POOTAGE OF LANCELIES. DO MOT INSTALL STREET WEER SOLL AND WEATHER COMDITIONS AND WEE SANDANTO, LEACHLAIMS WILCE BAYS REALIND WOOVERD DURING ; SUBSTANTIAL BAINTALL MAY REQUIRE ABANDOMMENT OR SWITTER SETTEMPHY

NATER INSPECTION AND APPROVAL OF ALL HOME ST THE DESIGNER AND HEALTH DEPARTMENT, THE LEACHLINGS BAY BE CONSTAIND. THE REGINSTED AND EXDS OF LEACHLING STALL HE STATED AND WON'T

14. ELEVATIONS ARE ASSURED

i i

ä

LEACHLIFE ARE TO BE EXCLANATED OF CONTOUR TO THE FLACTOR DESTRUCTION OF THE LEACHLIFF TREES DETAILS. LEACHLINES SHALL BE LAVE. AND FLACED WITH THE ALD OF A TANNETS OF LATES.

THE SEPTIC FAMES SEALL RE SEPT LAVEL IN THE MICHAELTS WITH AN BANKE OVER OF THE PROPERTY AND WASHINGTON OVER THE METRIC TAME BOLZS. THE SEALL HE BET IN STRIBE, HER DEPARTS.

÷ ÷ ÷

THERE MUST BE AT LEAST TWO INCHES OF LETTELED DEATH BOOK OWER THE TOP OF THE PERPONATED PIPE.

ALL MATERIAL, NORDOMHERIP AND COMPTROCTOR FRAIL CONFIDE TO RAPE COUNTY SPECIFICATIONS FOR PRIVITS REMARKS RAMPORDED, STREETS

- Personance of the covering any interest of the covering any alsessed to perform the covering any alsessed of the spira. The control is responsible of the covering the sealth spearchent specialities active to the sealth spearchent specialities a maintee of 24 hones in sevence, and no later than 9 kM. or the prior working day.

 This inspection of the completed spreas and all estates the construction documents.
 - ij
 - At the pre-construction conference, the following item ball be reviewed. Construction may proceed if the designa-confides the Bealth Oppartment Specialist verbally that all elements appear to conform to the following requirements:
- at the interest as the speciates defeat are not so high conservation oscillations of compact the to the conservation oscillation in the conservation oscillation in the conservation oscillation in the conservation of conservation of conservation in the conservation of the coll cover meterial designation of the coll cover designation of the collection of
 - the the interim impaction, the collowing alsometre, when required, shall be verified by visual impaction and operation of the system. Then all the required tases are completed and approved, the disposal field, trendhes and tasks are tasks any be covered or backfilled. .
 - Line and grade of all excavations and fills applicable.
- . .
- ö

2) HINTHEE THE THEMCE MIDTH.

TRANSMISSION LINE DETAIL

CHRISTY WETER BOXES, REGATION BOXES, OR COUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

FOUNTACHT.

6

WOTE: ANNLAR SEAL WHES FOR CHARE, BED AND SAND BED OF MONTORING WELLS,

GAOUND SURFACE --

A Actions of 6 sentering waits shall be installed utuning and actions of a sententied utuning and actions of a sentential action of action of a sentential action of activities of activities of activities of action of activities of acti

2) The resulting partition of the control of processing of the control of the con

4" SOLID A.B.S. PIPE

Ss The annular seal for the monitoring wells within the sand bed shall not exceed into the sand bed. 3) Monitoring wells shall be protected and enchand within plastic. concrete, or an approved type box to provide says the annuist seal for the annitoring units uithin the grave) bed shall not exceed into the gravel bed.

- DOUBLE WASHED PEA GRAVEL

4 OR AS DRECTHEN

Charles and the control of the contr

3

7) All monitoring wells shall be constructed out of 3 or a inch clameter well drillers ecreened or stotted PVC piping. d: An annular seal of 10 inches from the surface of native grade is required for all other sonitoring wells. OF SUSPECIFICACION (OR PERCHED) WATER

MONITORING WELL DETAIL

The state of the s

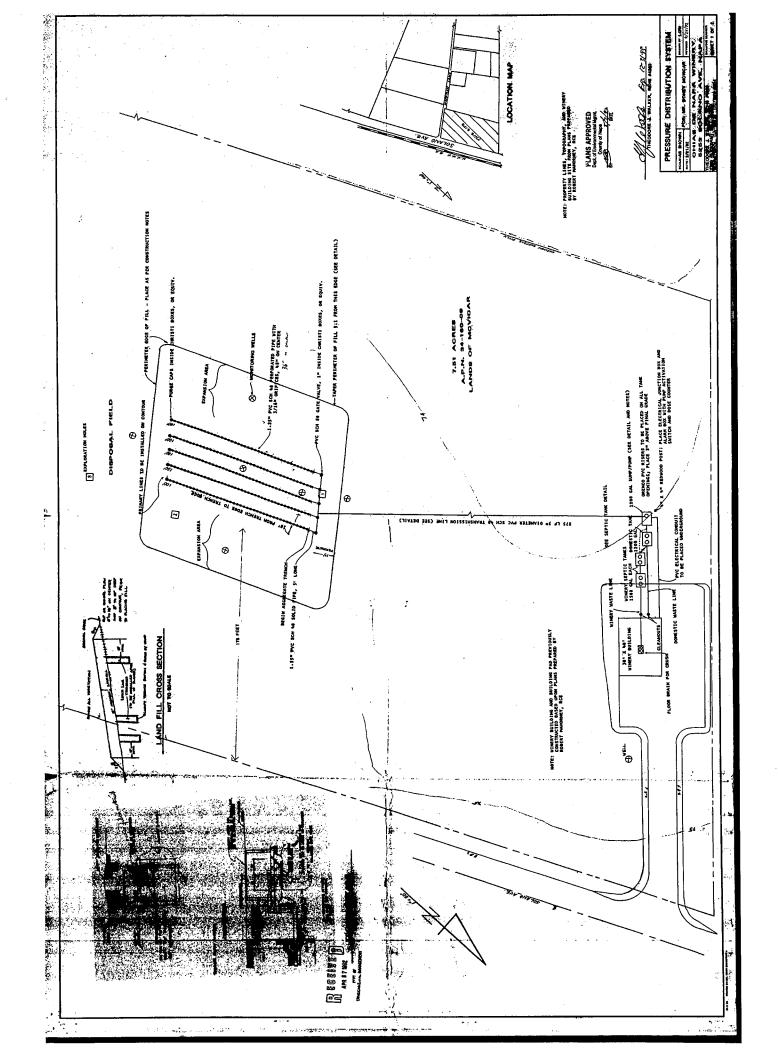
CONTRACTOR OF THE CONTRACTOR O

Same via



PRESSURE DISTRIBUTION DETAILS

MATTER PROPERTIES BONEY MOUNCE TO THE MATTER PARTIES OF THE MATTER



IF THIS PERMIT IS GRANTED BY THE ENGINEER THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS AS INDICATED "X"

*****	*******************
<u>X</u> 1.	Lowest floor elevations(including basement)must be above 79.5ft.MSL (from FIRM) Or, if applicable, SCHALLES floodproofed to said elevation, and contificate of registered civil engineer attached to this
	application (attach FEMA 81,31, April 82) W.S.
2.	Level notes, from established bench mark, to a visible mark at the site must be provided to Engineer prior to start of project(attach to permit). This mark shall be protected so as to remain usable until project deemed complete by Engineer (Sec 10221).
3.	This is or is not(circle one)a substantial improvement to an existing structure. Project cost Market value of structure
4.	Amount of excavation cubic yard or fill cubic yard permitted
5.	Structure or facility is in Riparian Zone and no substantial Riparian Cover is to be removed (Sect. 10308).
6.	Automatic equalization of hydrostatic flood forces required for enclosed area below lowest floor (Sect. 10306)
7.	Structure must be anchored firmly (Sect. 10301).
<u>X_</u> 8.	Water supply systems must be sealed or protected to 79.5 ft. MSL (from FIRM)
∑ 9.	Waste disposal system shall be located to prevent contamination by 100 year flood. (Sect. 10300 f)
/ _10.	Sanitary sewer system shall be designed with backflow preventer. (Sect. 10300 e)
√ X 11.	Electrical and fuel or heating systems must be designed to function during a 100 year flood (Sect. 10300 c)
_12.	Call Engineer 24 hours prior to start of project.
_13.	Inform Engineer of completion by written correspondence.
REPRES	I HEREBY CERTIFY THAT THE INFORMATION SUPPLIED BY MYSELF OR MY SENTATIVE IN CONNECTION WITH THIS PERMIT IS TRUE AND THAT I HAVE READ, UNDERSTAND AND AGREE TO THE ABOVE REQUIREMENTS AND CONDITIONS.
X = 0	mer Signature Date Applicant/Signature Date

	PERMIT-EXPIRES ONE YEAR FROM DATE BELOW
	PERMIT IS HEREBY GRANTED SUBJECT TO COMPLIANCE WITH CONDITIONS PERMIT IS HEREBY DENIED
E	ngineers Signature Date
. ****	REQUEST FOR APPEAL OR VARIANCE
A VAR	PPLICATION IS DENIED OWNER MAY APPEAL ENGINEERS DECISION TO, OR REQUEST IANCE FROM THE NAPA COUNTY BOARD OF SUPERVISORS BY COMPLETING FORM)
I Land to the second	Owners Signature Date
SUPER	Y REQUEST AN APPEAL AT PUBLIC HEARING BY THE COUNTY BOARD OF VISORS TO THE DETERMINATION OF THE ENGINEER A VARIANCE FROM THE REMENTS OF THE FLOOD PLAIN MANAGEMENT ORDINANCE (#885)
DATE	FOR MUST BE RETURNED TO PUBLIC WORKS DEPT. WITHIN 10 WORKING DAYS) OF APPEAL PUBLIC HEARING GRANTED DENIED OF VARIANCE CONSIDERATION GRANTED DENIED

Zabel Special Purpose Filter SEPTIC TANK INSTALLATION FEATURES

• PREVENTS CLOGGED DRAIN FIELDS

Filters suspended solids 90% +.

Model A100 = 1/16" filtration

Model A300 = 1/32" filtration

PROTECTS THE ENVIRONMENT

Treats waste water by lowering BOD₅ 45%. Acts as contact stabilization unit. Protects groundwater quality by improving efficiency of tank and drain field.

• IMPROVES SEPTIC TANK EFFICIENCY

Slows internal velocity.

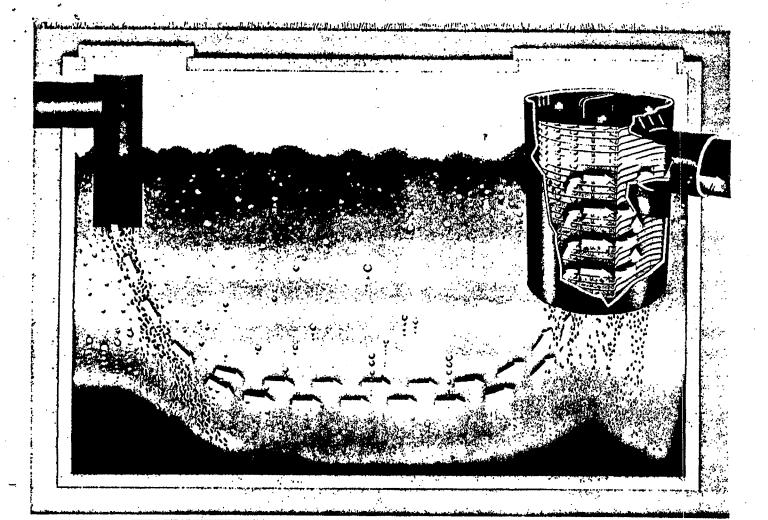
Holds nutrients (solids) trying to exit tank.

Bio-mass growth on disc dams causes solids to disintegrate, lose buoyancy and fall to tank bottom.

• EASY TO MAINTAIN

Can be cleaned at regular tank inspection. Increases time between pumping. Removable cartridge can be replaced or; Cartridge can be hosed off back into tank.

- NO MOVING PARTS
- LIFETIME WARRANTY



Model #A100

Zabel Industries International, Ltd.

Zabal Spacial Purpose Filter

REMOVES SOLIDS
utilizing over 198 feet of filtering capacity

INCREASES EFFICIENCY over 198 feet of settling capacity in a 1 foot wide space

PROTECT DRAINAGE FIELDS solid-reduced effluents drain away faster

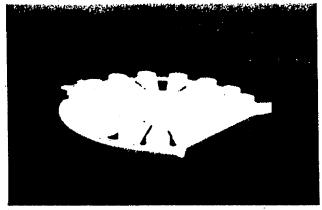
UTILIZES FLOW

the Zabel disc dam concept slows internal velocity but increases effectiveness.

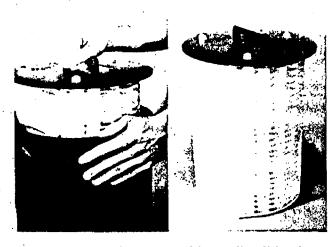
INCREASES EFFLUENT QUALITY reducing suspended solids in the effluent discharge.

EASY INSTALLATION just slides in any 4½ inch outlet opening

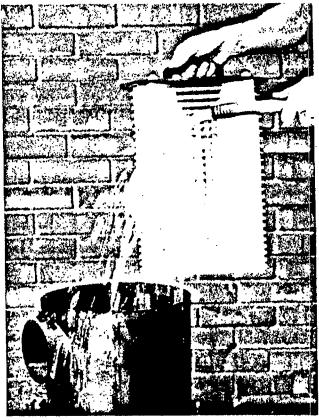
ZABEL DISC DAM FILTER PLATE



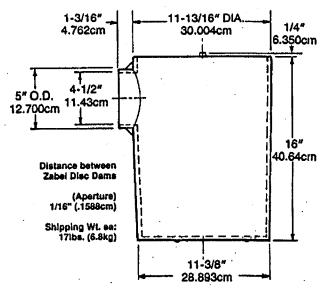
The series of Zabel disc dams are normally set with 1/16" spacing to filter out any biological sludges, water works sludges and light flocculent sludges.



The Zabel disc dam assembly easily slides in to the sturdy case. You can readily see how influent enters thru the open bottom of the case, is filtered as the liquid passes thru the Zabel disc dams, and suspended solids then fall back to the bottom of the septic tank or collection tank through the return holes. The clarified liquid flows on to the next stage (or the drainage field) through the sidewall effluent opening.



Replace the dirty cartridge with a clean one, place the dirty cartridge in a plastic bag and spray off with a hose at your shop.



For More Information Contact:

Zabel Industries International, Ltd.

3600 Chamberlain Lane, Suite 612 • Louisville, KY 40241 1-502-429-0628 or 1-800-221-5742

Patent No. 4710295

6/9

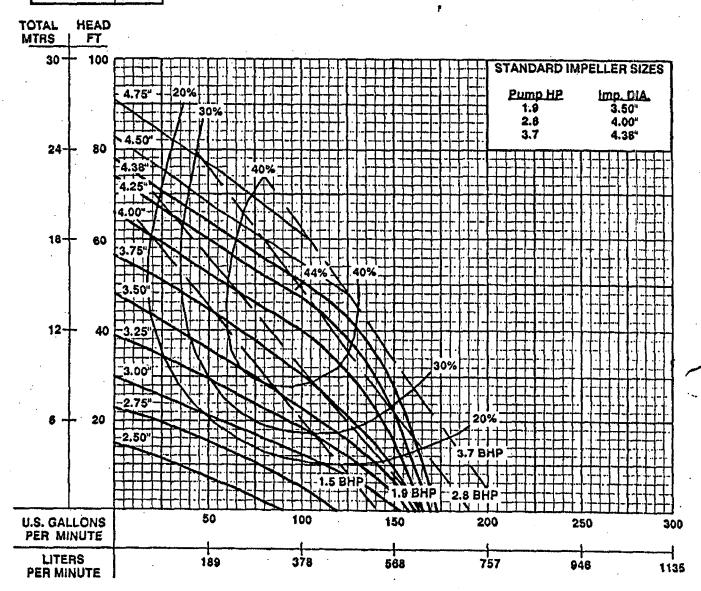
equivalent number of feet straight pipe for different fittings

Size of Fitting, Inches	1/2"	34"	1"	134"	11/2"	2,	21/2"	3"	4"	5″	6"	. 8"	10"
90° EII	1.5	2.0	2.7	95	4.3	8.5	6.5	8.0	10.0	14.0	15	20	25
45° EII	0.8	1.0	1.3		2.0	25	3.0	3.8	5.0	6.3	7.1	9.4	12
Long Sweep Eil	1.0	1.4	1.7	2.3	2.7	81	4.2	5.2	7.0	9.0	11.0	14.0	
Close Return Bend	3.6	5.0	6.0	2833	10.0	13.0	15.0	18.0	24.0	31.0	37.0	39.0	
Tee-Straight Run	· 1	2	2	題	3	45	5		·				
Tee-Side Inlet or Outlet	3.3	4.5	5.7	76	9.0	123	14.0	17.0	22.0	27.0	31.0	40.0	
CUENT			تند	III.			1		امسيا	440.0	ـمممه ا	-0000	— ;

.....

SECTION	4B
PAGE	10
ISSUED	11/89
SUPERSEDES	9/85

PERFORMANCE CURVE SERIES: 3SE ,1.9, 2.8, & 3.7 HP, 3450RPM



Testing is performed with water, specific gravity of 1.0, other fluids may vary performance.







PUMP CALCULATIONS

USE FLOW RATE $Q = \frac{123}{9} \text{ gpm}$ PIPE SIZE $3 \frac{1}{9} \text{ PVC}$

- 1. TOTAL DESIGN HEAD (T.D.H.)
 - A. Static Head (Hs)

Elevation of highest leach line invert = $\frac{74}{69}$

$$Hs = 74 - 69 = 5$$

B. Friction Head Loss (Hf)

at /23 gpm, Friction Loss (FL) for $3^{\prime\prime}$ PVC = $3.8/100^{\circ}$ Friction Loss in pipe, bends, valves, etc:

Description 90 Bend 45 Bend Gate Valve Check Valve	Estimated #	Equiv. Length 5.5 2.5 1.2 13.0	Total Length 22.0 LF /0.0 //.2 /3.0
Pipe	275 LF	1.0	275.0
		TOTAL:	33/ LF

Hf =
$$\frac{33}{2.57}$$
 x $\frac{3.8}{100}$

C. Total Design Head

T.D.H. = Hs + Hf = 5 + 12.57 (Add Below) + 22.58 T.D.H. = 40.15

RECOMMENDED PUMP: Goulds 3HP-WS 30 Series D or Equivalent

Add

1) Loss through latings

2.94 /100 efect × 700 lft = 20.58

2) Loss through anticipated 24 mig Rise = 2.0

Call Designe to Verity Pump Before Ordering

Friction loss per 100 ft. of plastic pipe

	GPM	GPH	*	**	y :	ı"	*	"	1	"	O:***1	1111	1 1 1	2".
	GPM	GFR	FL	Lbs.	FL.	Lbs.	Ft.	Lbs.	FL.	Lbs.	Ft.	Lbs.	Ft.	Lbs.
	1	· 60	4.25	1.85	1.38	.60	.356	.155	.11	.048				
	2	120	15.13	6.58	4.83	2.10	1.21	.526	.38	.164	.10	.044		
	3	180	31.97	13.9	9.96	4.33	2,51	1.09	.77	336	.21	.090	.10	.043
	4	240	54.97	23.9	17.07	7.42	4.21	1.83	1.30	~.565	.35	.150	.16	.071
	5.	300	84.41	36.7	25.76	11.2	6.33	2.75	1.92	.835	.51	.223	.24	.104
	1 30 63	360			36.34	15.8	8.83	3.84	2.69	1.17	100 13	.309	.33	.145
	8	480			63.71	27.7	15.18	6.60	4.58	1.99	1.19	.518	.55	.241
	10	600			97.52	42.4	25.98	11.27	6.88	2.99	1.78	.774	.83	.361
	15	900	·				49.68	21.6	14.63	6.36	3.75	1.63	1.74	.755
	20	1,200					86.94	37.8	25.07	10.9	6.39	2.78	(2.94)	1.28
	25	1,500	``			-			38.41	16.7	9.71	4.22	4.44	1.93
	-30	1,800			1						13.62	5.92	6.26	2.72
	35	2,100									18.17	7.90	8.37	3.64
	40	2,400									23.55	10.24	10.70	4.65
1	45	2,700									29.44	12.80	13.46	6.85
	50	3,000											16.45	7.15
····	60	3,600											23.48	10.21
	70	4,200	<u> </u>								1			
	- 80	4,800			<u> </u>			1				1	<u> </u>	<u> </u>
	90	5,400					1	 		1			 	1
	100	6,000							1	1	1	1		
	125	7,500				 	1	 	 	- 	1	 		
	150	9,000				 	1	 		 	1	1	 	
-	175	10,500	 	 		1	 	 	 	 	┼──	 	} 	
	200	12,000	ļ. —	 	 	-	 	 	 	 	 	 	 -	-
	250	15,000	1	1			1	 	}	 	 	 	 	
	300	18,000		 		1	 	 	 	1	-		1	-
	350	21,000								 		1.		
	400	24,000		1						 	1	1	 	
	500	30,000							1		1	1	 -	+
	550	33,000		·					1		1		1	1
-	600	36,000							1	1			-	
	700	42,000						1	1	 	1		†	1-
-	800	48,000							1	1	1		1	+-
	900	54,000							1	1	1	1	1	+
	950	57,000				1		1	 	1	1	1	 	+
	1000	60,000	I	1	1		1	1	 	+	1	 	 -	

FRICTION LOSS PER 100' OF PLASTIC PIPE

	GPM	GPH 21/2"				3"	-	4"		B"		"	10"		7		
	· GPM	GPA	Fl.	Lbs.	Fl.	Lbs.	Ft.	Lbs.	Fi.	Lbs.	Ft.	Lbs.	Ft.	Lbs.	FL.	Lbs.	1
	1	60						·									٦
	2	120															
	.3	180									·			·			
	4	240			<u> </u>												_
	5	300						<u> </u>									_
	6	360	.10	.044													_
	8	480	.17	.073			ļ										_
	10	600	.25	.108	.11			ļ									
	15	900	.52	.224	.22	.094			<u> </u>	<u> </u>							
	50	1,200	.86	.375	.36	.158	.13	.056									
_	25	1,500	1.29	.561	.54	.234	.19	.083									
	7 365	1,800	al ek	.786	.75	.327	.26	.114									
	. 35	2,100	2.42	1.05	1.00	.436	.35	.151	.09	.041							1
ا	40	2,400	3.11	1.35	1.28	.556	.44	.191	.12	.052							1
	X45	2,700	3.84	1.67	1.54	.668	.55	.239	.15	.064							1
	50	3.000	4.67	2.03	1.93	.839	.66	.288	.17	.076							1
	60	3,600	6.60	2.87	2.71	1.18	.93	.406	.25	.107							1
	70	4,200	8.83	3.84	3.66	1.59	1.24	.540	.33	.143							1
	80	4,800	11.43	4,97	4.67	2.03	1.58	.687	.41	.180							I
	90	5,400	14.26	6.20	5.82	2.53	1.98	.861	.52	.224						~	ł
	100	6,000			7.11	3.09	2.42	1.05	.63	.272	.08	.036				بيوشهروه مسائسه	ł
	125	7,500			10.83	4.71	3.80	1.65	.95	.415	.13	.055					ł
	150	9,000					5.15	2.24	1.33	.580							ļ
	175	10,500					6.90				.18	.077					ļ
	200	12,000						3.00	1.78	.774	.23	.102					1
\dashv	250	15,000					8.90	3.87	2.27	.985	.30	.130					1
+	300	18,000	 -						3.36	1.46	.45	.195	.12	.051			1
+	350	21,000							4.85	2.11	.63	.275	.17	.072			1
\dashv	400	24,000							6.53	2.84	.84	.367	.22	.095			1
+	500	30,000		~						ļ	1.08	.471	.28	.121			1
-	550	33,000	<u> </u>				 			 	1.66	.720	.42	.182	.14	.059	-
7	600	36,000					 				1.98	.861	.50	.219	.16	.071	
7	700	42,000					 -				2.35	1.02	.59	.258	.19	.083	_
	800	48,000		·	<u>·</u>								.79	.343	.26	.112	
. /	900	54,000				<u> </u>							1.02	.443	.33	.143	
{	950	57,000					ļ			<u> </u>			1.27	.554	.41	.179]
\dashv	1000						 								.46	.198	
	1000	60,000					<u> </u>	L							.50	.218	İ

THEODORE J. WALKER
REGISTERED ENVIRONMENTAL HEALTH SPECTALIST APR 27
2280 PLEASANT HILL RD.
SEBASTOPOL, CA. 95472
829-6854
DEPLOY

and the same of th

e filosociones como esta se su como como en entre en entre en entre en entre en en esta en entre en entre en e

DEPT. OF ENVIRONMENTAL MANAGEMENT

April 24, 1992

Design Revisions for Chias De Napa Winery, 5253 Solano Ave., Napa Ca., Sid McVicars Owner

Recently, the percolation rate for the area of the proposed system has been estimated at 1-3 inches per hour. In my original design, I utilized the most conservative rate allowed at .20 gallons/square foot/day. Therefore, the system can be actually reduced in total size. In dicussing this with my client, he has chosen to reduce the size of the system from the original design.

Therefore, the revised sizing of the system is as follows:

Using the estimated percolation of 1-3 inches per hour, the percolation rate of 60 minutes per inch converts to .74 gallons per square foot per day. Using the sidewall factor only (liquid area below the pipe), we use .8 feet per lineal foot (for one side), and 1.6 feet per lineal foot (calculating for both sides): Therefore, we use the following equation:

Proposed 550 gallons per day (peak load)
.74 gal/sq.ft./day X 1.6 sq.ft./lineal foot =

550 gallons 1.18 gal./lin.ft. = 466 lineal feet needed

Note: Will install 500 lineal feet for a safety factor. There is adequate expansion area, the system will be a Pressure Distribution System, and the trench width will be 24 inches wide instead of 36 inches wide.



NAPA COUNTY

TRENT CAVE, R.S. Director of Environmental Health

completed on

DEPARTMENT OF ENVIRONMENTAL HEALTH

1195 THIRO STREET, ROOM 205 • NAPA, CALIFORNIA 94559-3082 AREA CODE 707/253-4471

DIVISION OF ENVIRONMENTAL HEALTH
INSPECTION SCHEDULE FOR SPECIAL DESIGN SEWAGE SYSTEMS

The attached plans have been approved and an Environmental Assessment

Please be advised that any changes in the design or location must be approved by both the designer and the Division of Environmental Health.

	This office must be contacted for field inspections during the stages of construction checked below. We would prefer to meet with the designer at the site but that is not mandatory.
	ETT SEDS P.D. SYLTETI
	Environmental Health will inspect the ETI Bed at two stages at the following intervals:
	FIRST INSPECTION
1.	Inspection of rock, sand and/or soil to be used
OK 9/h	Inspection of tock, sand and/or soil to be used Inspection of distribution and perforated lines in the best lines & Squi,
0K-6/1/9	2 Inspection of septic tank(s) Zabel filters on both wanny truck outlit
ok and	Inspection of sewer line
. Anv	***********************
	SECOND INSPECTION
	Inspection of the covered bed
K-8/3/92	Inspection of the covered bed Inspection of monitoring wells only 30"- sanitary scal to total
~ur	Inspection of french drains and surface water diversion ditches Inspection of sump/pumps and alarm
K 63/97	Inspection of sump/pumps and alarm
	Other
•	A final construction report from the designer will be required prior to this office issuing any final. This must include an as built plot plan showing any significant deviations from the approved plans.
	For the above inspections, you should contact the district sanitarian at least 24 hours in advance.
•	If you have any questions regarding these inspection requirements, please contact the undersigned sanitarian.
	Approved by:

Zabel Special Purpose Filter SEPTIC TANK INSTALLATION FEATURES

• PREVENTS CLOGGED DRAIN FIELDS

Filters suspended solids 90% +.

Model A100 = 1/16" filtration

Model A300 = 1/32" filtration

PROTECTS THE ENVIRONMENT

Treats waste water by lowering BOD₅ 45%.

Acts as contact stabilization unit.

Protects groundwater quality by improving efficiency of tank and drain field.

IMPROVES SEPTIC TANK EFFICIENCY

Slows internal velocity.

Holds nutrients (solids) trying to exit tank.

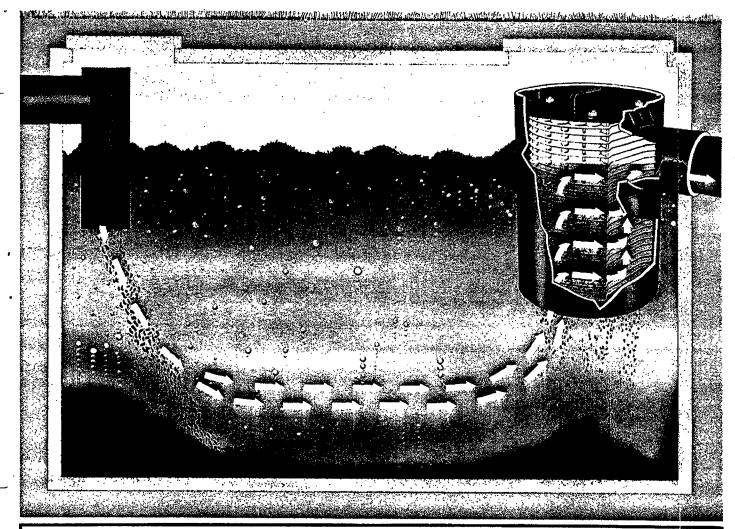
Bio-mass growth on disc dams causes solids to disintegrate, lose buoyancy and fall to tank bottom.

• EASY TO MAINTAIN

Can be cleaned at regular tank inspection. Increases time between pumping. Removable cartridge can be replaced or;

Cartridge can be hosed off back into tank.

- NO MOVING PARTS
- LIFETIME WARRANTY



Model #A100

Zabel Industries International, Ltd.

Zaloel Special Purpose Filter

REMOVES SOLIDS utilizing over 198 feet of filtering capacity

INCREASES EFFICIENCY
over 198 feet of settling capacity in a 1 foot wide space

PROTECT DRAINAGE FIELDS solid-reduced effluents drain away faster

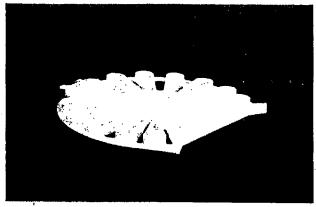
UTILIZES FLOW

the Zabel disc dam concept slows internal velocity but increases effectiveness.

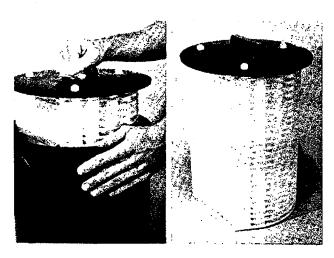
INCREASES EFFLUENT QUALITY reducing suspended solids in the effluent discharge.

EASY INSTALLATION just slides in any 4½ inch outlet opening

ZABEL DISC DAM FILTER PLATE



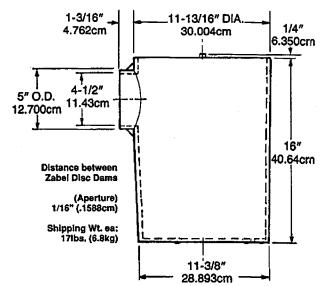
The series of Zabel disc dams are normally set with 1/16" spacing to filter out any biological sludges, water works sludges and light flocculent sludges.



The Zabel disc dam assembly easily slides in to the sturdy case. You can readily see how influent enters thru the open bottom of the case, is filtered as the liquid passes thru the Zabel disc dams, and suspended sollds then fall back to the bottom of the septic tank or collection tank through the return holes. The clarified liquid flows on to the next stage (or the drainage field) through the sidewall effluent opening.



Replace the dirty cartridge with a clean one, place the dirty cartridge in a plastic bag and spray off with a hose at your shop.



For More Information Contact:

Zabel Industries International, Ltd.

3600 Chamberlain Lane, Suite 612 • Louisville, KY 40241 1-502-429-0628 or 1-800-221-5742

Patent No. 4710295

equivalent number of feet straight pipe for different fittings

4	3
Y	٦

	1/2"	34"	4"	12 "	11/2"	21,	21/2"	3"	4"	5"	6"	8"	10"
Size of Fitting, Inches	72	74					 	8.0	10.0	14.0	15	20	25
90° Ell	1.5	2.0	2.7	3 ,5	4.3	5.5	6.5		t				
45° EII	0.8	1.0	1.3	77	2.0	2.5	3.0	3.8	5.0	6.3	7.1	9.4	12
			17	2.3	2.7	3.5	4.2	5.2	7.0	9.0	11.0	14.0	
Long Sweep Ell	1.0	1.4	1.7	93	 				04.0	31.0	37.0	39.0	
Close Return Bend	3.6	5.0	6.0	83	10.0	13.0	15.0	18.0	24.0	31.0	37.0	00.0	
Tee-Straight Run	1	2	2	18	3		5						<u> </u>
	3.3	4.5	5.7	76	9.0	12.0	14.0	17.0	22.0	27.0	31.0	40.0	
Tee-Side Inlet or Outlet	3.3	7.5	3.7	1	1	1				440.0	460.0	0000	L

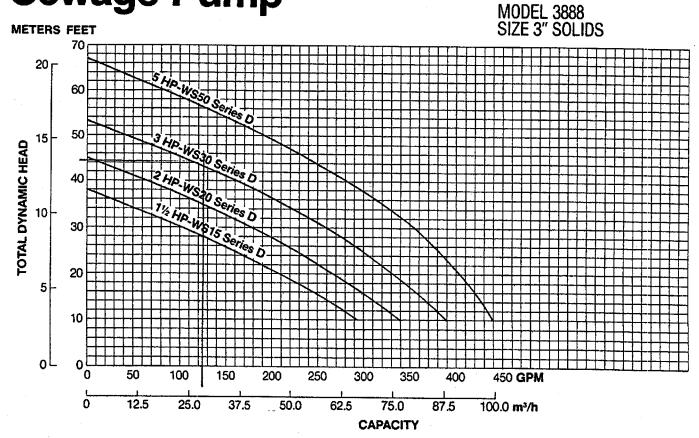
Friction loss per 100 ft. of plastic pipe //

			3/6	"	1/2"		34"		1"		DITA		11/2	"
	GPM	GPH -	FL.	Lbs.	Ft.	Lbs.	Ft.	Lbs.	FL.	Lbs.	Fŧ.	Lbs.	Fl.	Lbs.
	1	60	4.25	1.85	1.38	.60	.356	.155	.11	.048				
	2	120	15.13	6.58	4.83	2.10	1.21	.526	.38	.164	.10	.044		
	3	180	31.97	13.9	9.96	4.33	2.51	1.09	.77	336	.21	.090	.10	.043
	4	240	54.97	23.9	17.07	7.42	4.21	1.83	1.30	.565	.35	.150	.16	.071
	5.	300	84.41	36.7	25.76	11.2	6.33	2.75	1.92	.835	.51	.223	.24	.104
	18383	360			36.34	15.8	8.83	3.84	2.69	1.17	1-3/1-	.309	.33	,145
· · · · · · · · · · · · · · · · · · ·	8	480			63.71	27.7	15.18	6.60	4.58	1.99	1.19	.518	.55	.241
	10	600	_		97.52	42.4	25.98	11.27	6.88	2.99	1.78	.774	.83	.361
	15	900					49.68	21.6	14.63	6.36	3.75	1.63	1.74	.755
1	20	1,200					86.94	37.8	25.07	10.9	6.39	2.78	2.94	1.28
•.	25	1,500	8		<u> </u>				38.41	16.7	9.71	4.22	4.44	1.93
	30	1,800								<u> </u>	13.62	5.92	6.26	2.72
	35	2,100								ļ	18.17	7.90	8.37	3.64
-	40	2,400					<u> </u>	<u> </u>		<u> </u>	23.55	10.24	10.70	4.65
-!	45	2,700									29.44	12.80	13.46	5.85
_	50	3,000								<u> </u>			16.45	7.15
	60	3,600					<u> </u>	<u> </u>		<u> </u>	_	<u> </u>	23.48	10.21
	70	4,200					<u> </u>	<u> </u>					\	
	80	4,800									<u> </u>	<u> </u>	<u> </u>	
	90	5,400											ļ	.
	100	6,000							<u> </u>					
	125	7,500									_			
	150	9,000											1	
	175	10,500	1										<u> </u>	
·	200	12,000												
	250	15,000												
	300	18,000												
,	350	21,000											_	
	400	24,000												
	500	30,000												
	550	33,000			_							_	<u> </u>	
	600	36,000) .										_	
	700	42,000										_		
	800	48,000)										1.	
	900	54,000												
	950	57,000)											
	1000	60,000	0										_	

FRICTION LOSS PER 100' OF PLASTIC PIPE

- 1	GPM	GPH		2" ***	2	1/2"		3"		4"		6"		8"	-	10"	
			Ft.	Lbs.	Ft.	Lbs.	Ft.	Lbs	FL		Ft		. F1.		٠,	10"	****
4-	1	60	<u> </u>									-	 	1.03	. F1	Ltıs.	<u>_</u>
4	2	120							1	1		 	+	+			-
┦-	3	180							1		 	+	-		╂		
Ļ	4	240							1		 		-	+	+-		_
ļ. <u>.</u>	. 5	300						1	 	_	+	' - 	┪	+	-		_
_	6	360	.10	.044					 	 	-	-			+	 	_
L	8.	480	.17	.073					 	 	+-		┪—	-	 	 	_
_	10	600	.25	.108	.11	.046	1	-	 	1	+		-		╂—	 	-
L	15	900	.52	.224	.22	.094	1	 	-	 	┪	+	-	 	-	<u> </u>	
L	20	1,200	.86	.375	.36	.158	.13	.056	 	+	┪—	-	┨——	 		<u> </u>	_
	25	1,500	1.29	.561	.54	.234	.19		·	 	╂──	 	 	 -	╀—		<u> </u>
1.	30.7	1,800	-1,8 k		.75	.327	.26	+	 	 	 -	 	┼	 	 	<u> </u>	_
	35	2,100	2.42	1.05	1.00	.436	.35	.151	.09	.041	╁╧	 	-	-	 		_
	40	2,400	3.11	1.35	1.28	.556	.44	.191	.12	+		 	 	ļ	<u> </u>	<u> </u>	_
1	X 45	2,700	3.84	1.67	1.54	.668	.55	.239					<u> </u>		<u> </u>		
	50	3,000	4.67	2.03	1.93	.839	.66	 	.15	+		ļ	<u> </u>				
	60	3,600	6.60	2.87	2.71	1.18		.288	.17	.076	 -	<u> </u>					
	70	4,200	8.83	3.84	3.66		.93	.406	.25	.107	 	<u> </u>	<u> </u>				_
	80	4,800	11.43	4.97	~	1.59	1.24	.540	.33	.143							_
	90	5,400	14.26		4.67	2.03	1.58	.687	.41	.180		<u></u>					_
	100	6,000	14.20	6.20	5.82	2.53	1.98	.861	.52	.224							-
	125				7.11	3.09	2.42	1.05	.63	.272	.08	.036					-
	150	7,500			10.83	4.71	3.80	1.65	.95	`\.415	.13	.055					_
		9,000					5.15	2.24	1.33	.580	.18	.077			 		-
	175	10,500					6.90	3.00	1.78	.774	.23	.102	 		 		_
	200	12,000					8.90	3.87	2.27	.985	.30	.130	 				
- -	250	15,000	·						3.36	1.46	.45	.195	.12	.051			-
	300	18,000							4.85		.63	.275	.17	.072	 -		4
	350	21,000							6.53	2.84	.84	.367	.22	.095			-
	400	24,000									1.08	.471	.28	.121			4
	500	30,000					7				1.66	.720	.42	.182	.14	OFO	$\frac{1}{2}$
	550	33,000									1.98	.861	.50	.102	.16	.059	4
	700	36,000									2.35	1.02	.59	.258	.19	.071	4
	700	42,000											.79	.343		.083	1
	800	48,000													.26	.112	-
	900	54,000		•	T								1.02	.443	.33	.143	1
	950	57,000											1.27	.554	.41	.179	1
- 1	000	60,000												i	.46	.198	ĺ

Submersible Sewage Pump



GOULDS PUMPS, INC.

PUMP CALCULATIONS

USE FLOW RATE $Q = \frac{123}{9}$ gpm PIPE SIZE $\frac{3}{9}$ PVC

- 1. TOTAL DESIGN HEAD (T.D.H.)
 - A. Static Head (Hs)

Elevation of highest leach line invert = $\frac{74}{69}$

$$Hs = 74 - 69 = 5$$

B. Friction Head Loss (Hf)

at 1/23 gpm, Friction Loss (FL) for $3^{\prime\prime}$ PVC = $3.8^{\prime}/100^{\circ}$ Friction Loss in pipe, bends, valves, etc:

Description	Estimated #	Equiv. Length	Total Length
90 Bend	<u></u>	5.5	22.0 LF
45 Bend	Ü	2.5	10.0
Gate Valve	Š	1.2	11.2
Check Valve	1	13.Ø	13.0
Pipe	275 LF	1.0	275-0
		TOTAL:	33/ LF

Hf =
$$\frac{33}{4}$$
 x $\frac{3.8}{4}$ /100°

C. Total Design Head

T.D.H. = Hs + Hf = 5 + 12.57 (Add Below) + 22.58 T.D.H. = 40.15

RECOMMENDED PUMP: Goulds 3HP-WS30 Series D or Equivalent

Add 1) Loss through Laterals 2.94 /100 elect × 700 lft = 20.58

CHAS DE NAPA WINERY SYDNEY McVICARS 5253 Solano Ave. Napa, Ca.

PRESSURE DISTRIBUTION SYSTEM DESIGN:

Site Evaluation Field Analysis performed 8-12-88 by Napa Septic and Tim Snellings of Napa County Health Department. System was accepted for a Special Design ETI System, design by Mahorney and Associates.

Review of the site and soil conditions reveals that the ETI System may not be best suited for Winery Waste Water Design. On March 13, 1992, I evaluated the site with augered holes excavated as indicated on the plans. Shown is an area for a Special Design Pressure Distribution System. Soils encounted consisted of:

<u> Hole #1</u> 0-24 Sandy Clay Loam, Granular Structure, Firm, Damp 24-36 SiltyClay Loam, Granular, V.Firm, Damp Ø-18 Silty Cly Loam, Granular, firm, Damp 18-25 Gravelly Silty Clay Loam, Granular, firm, damp Ø-24 Silty Cly Loam, blocky, firm, damp 24-36 Sandy Cly Loam, Granular, firm, damp

No water or seepage was encountered within the first 36 inches of the auger holes on this date. Note: Seasonal rainfall had occured within the last 48 hours.

Estimated perk rate results in a infiltration rate of .20 30.5 //Hz gallons per square foot per day (the same as Mahorney and Ass.) However, utilizing trenches instead of a large gravel & F. I. bed, you get increased sidewall factor. In this case, we will a 36 inch wide trench, which will result in a sidewall factor of 4 square feet per lineal feet. Therefore to size the system, use the following:

Assumer.

18"/He.

MADE CLOSES

5016 CHANGE

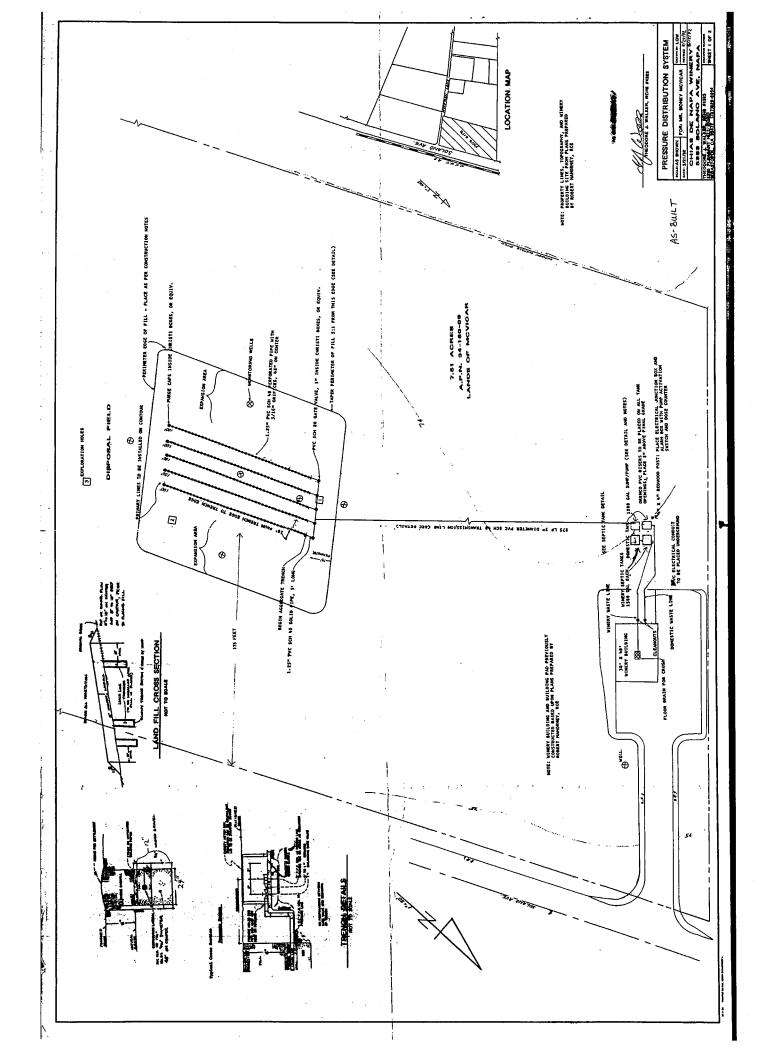
500 gallon/day peak load ,20 gals/square feet/day X 4.0 square feet per lineal ft =

500gal .8Ø = 625 lineal feet needed. Note, will install 700

lineal feet for a safety factor. There is adequate expansion area. The system will be Pressure Distribution for equal flow.



· · · · · · · · · · · · · · · · · · ·
19. Pump head calculations included (no siphons).
20. Number of doses/day 23-4 (should be between 2
and 4).
21. Sump size / 200 gals. Alarm within 20
ft. of house ok.
(2 ft. min.)
23. Balancing valve at beginning and purge valve at end of each
line, encased in plastic or concrete boxes.
24. Two foot separation from manifold to perforated pipe.
25. Distance of sump and pump from disposal system 275 (not >30 ft.)
26. Number of monitoring wells 6 (six required.)
11 - a selection a desire portagnere
4/2/92 SPOKE WITH TED WALKOR ABOUT CONCERS
WITH PLANS: O ASSUMED 1/2 /A. None. LATE
con peges. O provide po por ver
D NO SAND IN TREMENS - DNLY CRAVER
3 EFFECTIVE AREA OF 4 "/CIN. FT.
AS OPPOSED TO 2 0 /LIN. FT. AS PER REQUIRORANTS
TOLD TOO THAT THESE REPRESENT A SIGNIFICANT
DEVIATION FROM OUR QUIDELINES, AND AS POR
OUR AGREENENT WITH REGIONAL WATER, WO
NUST REPER THE PROPOSAL TO THEN FOR REVIEW.
TED WILL WAITE LETTER TO BLAIR ALLOW
AND EXPLAIN.
12 0 SITE EVALUATION IN PROPOSED SYSTEM MER REVERSED SOIL
THE CHANTION IN PROPOSED SYSTEM MICH LEVERLED SOIL
IN THE 1-3 "/M. LANCE - OK. FOR PROPOSED SYSTEM.
@ BLAIN ALLEN WEER
CAND - MORE CONTRACT MPPROVED USE OF GRAVEZ IN PLACE OF
BLAIR ALLEN VERBALLY MAMOURD USE OF GRAVER IN MINES OF SAND - MORE SUITABLE DUE TO TYPE OF WASTE (WINDER) B) SLAVA BLIEN (AD 29' / 100 50 000
3 BLAIR ALLEN SAID 20 /LIN. FT. OK.
4/2/02
REVIEWED BY DATE 4/21/92
•
nna .



PLAN CHECK SHEET FOR PRESSURE DISTRIBUTION SYSTEM

		SIDNOY MEVICAR - CHIAS DE NAMA DATE IN 3/26/92
	ADDRES	SS 5253 SOLANO AVE. A.P. # 34-160-08
	GENER	AL REQUIREMENTS
	1. <u>×</u> 2. <u>×</u>	_3 copies of plans, design criteria, plan check fee paid. _Completed environmental assessment sheet and USGS Quad section.
Œ	<u>4. کد</u> کد_5	Perc test or site evaluation on file, location indicated. Plans show precise location on parcel and drawn to scale. Plans show contours or elevations. All setbacks are indicated.
	7 <i>X</i> 8 <i>X</i> 9 <i>X</i>	All water diversion shown - no problem on adjoining lots. Files on adjoining parcels checked for wells and easements. Engineer's inspection schedule included.
Đ	11	100% reserve area designated. Outside floodway or flood plain. IN Proop MAIN According To Tice! Tank sealed if Water table <72" and sump not sealed with bituminous material.
	DESIG	V CRITERIA & PORC. TOUT IN A DIPPORTAT AREA 150-200' AWAY
	1. 2.	Slope 0.5 t % (Must not exceed 30%). Percolation rate in/hr. (not <1/2 in/hr at 24" below trench bottom).
	3.	Depth to groundwater 36 + in. (not <24" below trench
	4.	Depth to impervious layer :in. (not <24" below trench bottom).
	5. 6.	Design wastewater flow <u>500</u> G.P.D. Type of sand in trench <u>GRAVEL</u>
	7. 8.	Depth of Sana under pipe OK. (8" min.) Gravel size (3/8" to 3/4"). Depth gravel under pipe (2" min.) Depth gravel over pipe OK.
	9.	Filter media between gravel and backfill ok.
	10. 11.	Depth of backfill over gravel /2" (12" min.) Application rate of native soil based on perc rate
	12.	Square feet effect sidewall area (sand and gravel) (not >3 sq. ft./lin. ft.)
	13. 14.	Length pressurized line run 275 (not >50 ft.) Total length of distribution system 700 ft. (Daily flow divided by application rate X effective sidewall area.)
	15. 16.	Trench width 36" in. (18-24" REQUIRED) Trench spacing 7 (ON CENTON) ft. (6 FF. MIN.)
	17.	Lateral pipe diameter //y " in.
	18.	Perforations spacing 48 in.
		Perforations diameter 3/16 in.

THEODORE J. WALKER REGISTERED ENVIRONMENTAL HEALTH SPECIALIST 2280 PLEASANT HILL RD. SEBASTOPOL. CA. 95472 829-6854

June 16, 1992

Ms. Jeanna Michael, R.E.H.S. Napa County Department of Environmental Health 1195 Third St., Rm. 205 Napa, California 94559

Re: Septic System final for 5253 Solano Ave., Napa Ca. A.P. #34-160-0**8**

Dear Jeanna Michael:

I have inspected the septic system installation for the property mentioned above, and have found the installation to be in conformance with the plans that were approved and in compliance with the Napa County regulations.

The septic tanks were moved slightly, and are snown on the attached "As Built Plans".

I recommend that approval be given for the final inspection. Should you have questions, please call me at 829-6854 or 829-7936.

Yours truly,

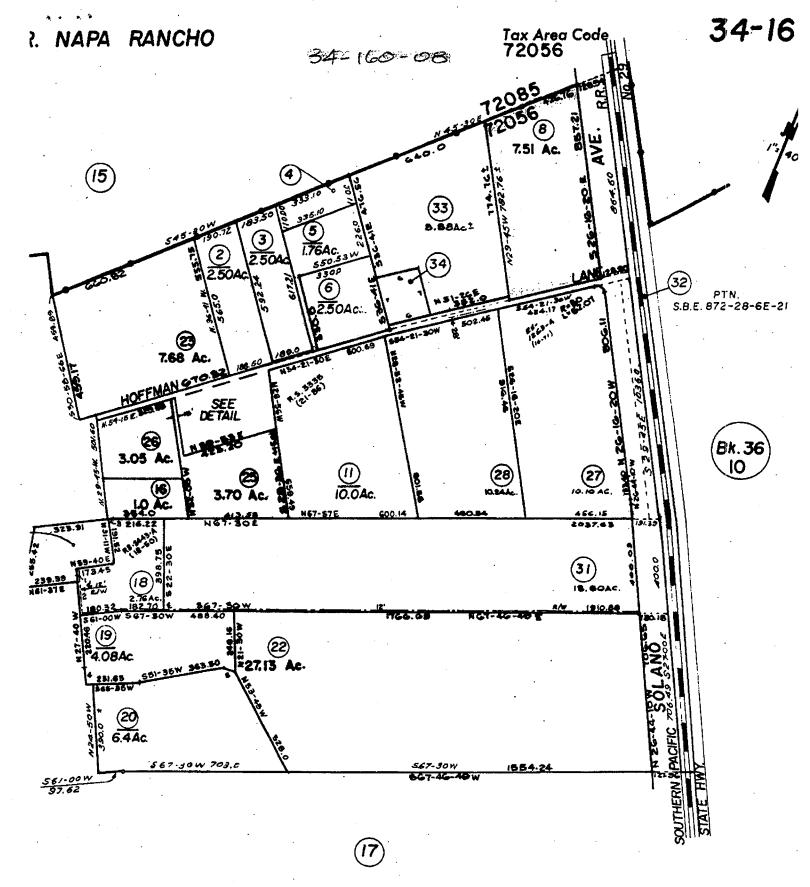
Theodore J. Walker,

Registered Environmental Health Specialist

#4323

cc: Sid McVicar

Mark Phillips



Assessor's Map Bk. 34 –Pg.16 County of Napa, Calif.

SFAP: Separated for Assessment Purposes Only NOTE—Assessor's Block Numbers Shown in Ellipses.

12 11

1956-62

37

MAHORNEY, ALFONSO AND ASSOCIATES, INC.

CIVIL ENGINEERS
LAND SURVEYORS
AND LAND PLANNING
#1386

Page 2

Re:Chias De Napa McVicar-Small Winery Permit NCAP 34-160-08

The Winery structures will be elevated. The E-T-I Bed will be elevated approximately 36" above original ground (77.5 \pm MSL-USGS).

I trust the above is sufficient for your needs at this time. Final Design Plans and Specifications will be submitted to your office for review and approval at the appropriate time. Please contact me shoud you have any questions.

Sincerely;

R.G. Mahorney, P.E.

RGM/rjm Attach:

MAHORNEY, ALFONSO AND ASSOCIATES, INC.

Jill Pahl, R.S.
Department of Environmental Health
County of Napa
1195 Third Street
Napa, California, 94559

CIVIL ENGINEERS
LAND SURVEYORS
AND LAND PLANNING



DEPT. OF ENVIRONMENTAL MANAGEMENT

Re: Chias De Napa McVicar-Small Winery Permit NCAP# 34-160-08

Dear Jill:

The project applicant has requested that I respond to your request for additional information relative to methods of sewage disposal available to the project. I have examined the site, acquired topographical data, and examined the Site Evaluation Report prepared by your department.

The Site Evaluation Report indicates that high seasonal ground-water occurs at approximately 36" below the lowest ground surface and that said 36" of soil is acceptable for special design.

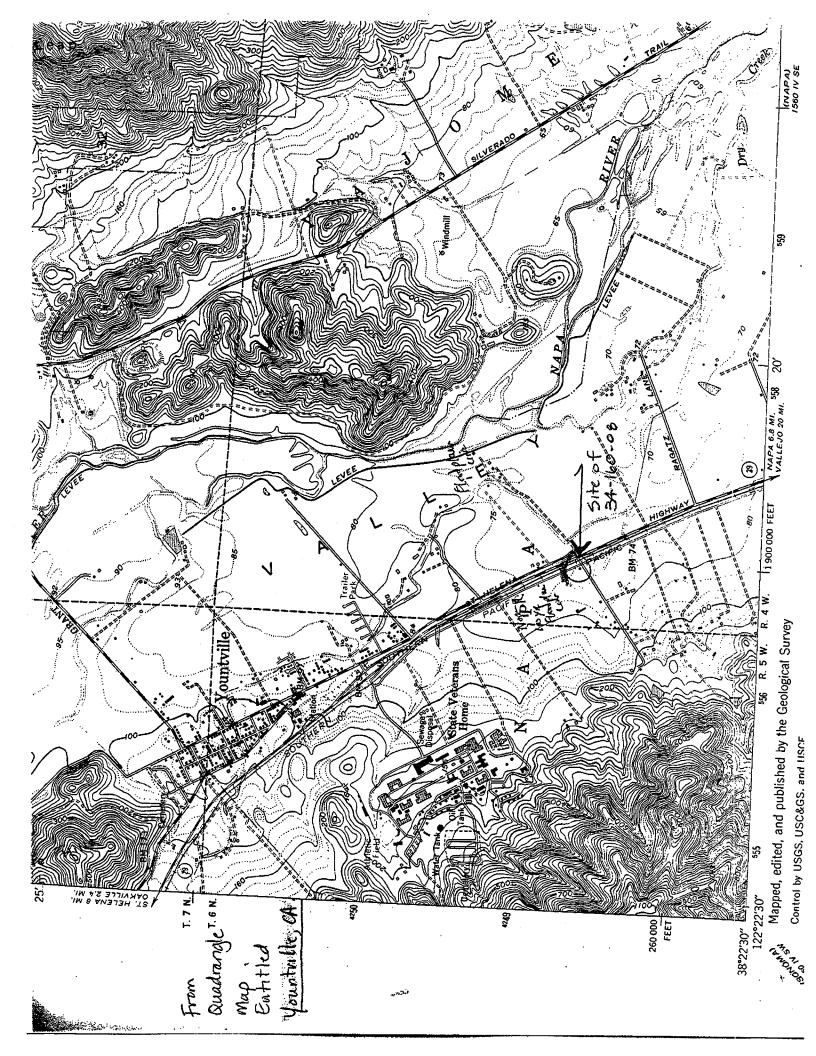
The project is to be constructed on NCAP #34-160-08, a 7.5 +/Acre parcel of land located adjacent to Solano Ave. and lying
immediately north of Hoffman Lane. The Winery structures are to
be placed at the northerly end of the parcel approximately 200 ft.
westerly of Solano Ave and 750 ft. northerly of Hoffman Lane.

The Winery structures are proposed to be located approximately 590 ft. from the nearest residence and approximately 780 ft. from the nearest Winery. Both the structures noted above lie southwesterly of the proposed Winery location.

Due to the existing soil conditions and the limited amount of wastewater to be generated, an Evapo-Transpiration and Infiltration Disposal System with watertight septic tanks seems best suited to the subject project. The disposal facilities should be placed easterly of the winery structures. An E-T-I Bed of 3300 SF (33'x100') with a 1500 gal. septic tank should provide adequate wastewater treatment and disposal for the proposed Small Winery.

Drainage of the project lands flows Southwesterly from a high elevation of 75.8 +/- to a low of 71.8 +/-. Ground slope is approximately 0.44%.

SEP 15 1988



Background Information Page 7

On-site/Nearby Aggregate/Rock Product/Mineral Resource Site (% site - material(name)) unt of Prime Cropland/Grazing Land Potentially Removed From Productes): al Amount of Prime Cropland/Grazing land In County rea): centage Loss in Prime Cropland/Grazing Land: Centage Loss in Prime Cropland/Grazing Land: This post Statem Numerical in Amount proposal by paint angular proposal prop	neone, Mahornay, A
unt of Prime Cropland/Grazing Land Potentially Removed From Productes): al Amount of Prime Cropland/Grazing land In County res): centage Loss in Prime Cropland/Grazing Land: The post System Newmonder in Myster Prepared by air all angular and county from Mister and Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: te Improvements & Vegetation: unding Land Uses:	neone, Mahornay, A
centage Loss in Prime Cropland/Grazing Land: This post System Vermmental in Mant proporting information a costocks, The receive 905/605 OF ENVIRONMENTAL SETTING INFORMATION: ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) as 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: Date: By: Distance:	
T Disposed System Verymounted in Apart proporting information accordes, The received 90550000000000000000000000000000000000	
OF ENVIRONMENTAL SETTING INFORMATION: ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: Unding Land Uses:	
OF ENVIRONMENTAL SETTING INFORMATION: ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: Unding Land Uses:	
of Environmental Setting Impormation: ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: Unding Land Uses:	
ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: The Improvements & Vegetation: Unding Land Uses:	
ept as otherwise indicated, the source of the setting information the Napa County Environmental Sensitivity Mapping Program; (b) a 2,000 scale aerial photos of the site; (c) the comments received; h knowledgeable individuals (see notes below); (e) the preparer's the area; and (f) where necessary, a site visit (see notes below). HECK (Optional): Date: By: The Improvements & Vegetation: Unding Land Uses:	
Date: By: te Improvements & Vegetation: unding Land Uses: Distance:	a review of the 19 d; (d) conversation s personal knowled
By: te Improvements & Vegetation: unding Land Uses: : Distance:	
te Improvements & Vegetation: unding Land Uses: : : : : : : : : : : : : : : : : : :	
unding Land Uses: Distance:	
Distance:	
	P

Background Information Page 6

Traffic (Impact 34, 35, 36, 37 & 38)	
Estimated Traffic Speed (mph):	
Site Distance At Driveway Location (ft): Standard:	
Percentage Increase In Hazards To Existing Traffic:	
Traffic Generation (trips) per day:	
peak hr: peak hr cross traffic:	
Traffic Distribution (%) (see traffic distribution sketch when attached) north: south: east: west:	
Traffic Level Changes (ADT/peak hr) street name (capacity):	·:
base case (LOS): with project (LOS):	
DAYCART OF VANALATION	
uncommitted capacity:	
*Parking Spaces Provided: Standard: Standard:	
Public Safety (Impact 44, 45, 46 & 47)	
Fire Risk: Low Fire Response Time (min): Fire Hydrant D	
Airport/Helighet Safety Zone (% site - airport):	
Airport/Helight Approach Protection Zone (% site - airport):	
Airport/Heliport Clear Zone (% site - airport):	
·	

3 Background Information Page 5

Moise (Impact 17, 18, 19 & 20)
Peak On-site Ldn Noise Levels At Proposed Facility (dBA): Standard:
*Ldn Noise Levels At Most Highly Impacted Off-site Receptors (dBA)
location: standard: existing: base case: with project: difference:
Peak Construction Noise Levels At Host Highly Impacted Receptors (dBA):
Standard:
Ecosystems (Impact 21, 22, 23, 24 & 25)
Unique/Rare/Endangered Plant (symbol(scient. name) - common name):
© Unique/Rare/Endangered Animal (name):
Fresh/Brackish/Salt Water Marsh (% site)
Riparian Gallery (Z site - stream):
Vernal Swale/Pool/Pond/Lake (% site)
Other Unique/Important/Particularly Productive Habitat (% site- type):
Biotic/Wildlife Survey:
Cultural Resources (Impact 31, 32 & 33)
Archaeological Site (% site - number):
historical Site (name):
Archaeologically/Historically Sensitive Area (% site):
Recreational/Educational/Religious/Scientific Use Area (% site - name):
Archaeological Survey:

Background Information Page 4

latershed					
designation:					
size (acres):					
Percentage Change in (see runoff/erosion			ched)		
					
rosion/Sedimentation/	Water Quality (I	mpact 7, 8,	10, 11 & 12)		
Wa tershed					
wa tershed designa tion					
erosion hazard					
size (acres)					
Percentage Increase I					
construction:					
permanent:					
permanent:					
permanent: ir Quality (Impact 1: Traffic Generated (tr				iles/trip):	
ir Quality (Impact 1:	rips/day):	Average 1			
ir Quality (Impact 1: Traffic Generated (tr	rips/day):	_ Average 1 Existing	Trip Length (mi		
ir Quality (Impact 1: Traffic Generated (tr	rips/day): iay): In Pollutants Rel	Average 1 Existing eased In Air	Trip Length (mi		
Traffic Generated (tr VMT Increase (miles/o Percentage Increase :	rips/day): iay): In Pollutants Rel a Levels alculation sheets	Existing eased In Air when attach	Trip Length (mit vMT In Airshed:	i:	
Traffic Generated (tr VMT Increase (miles/o Percentage Increase :	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:
Traffic Generated (tr VMT Increase (miles/o Percentage Increase: On-site Air Pollution (see air quality ex CO (1 hr):pportion of Remain: Levels Employed (see Roadway:	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:
Traffic Generated (tr VMT Increase (miles/o Percentage Increase: On-site Air Pollution (see air quality ex CO (1 hr):pp Proportion of Remain: Levels Employed (see Roadway: CO (1 hr):	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:
Traffic Generated (tr VMT Increase (miles/compensate increase inc	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:
Ir Quality (Impact 1: Traffic Generated (tr VMT Increase (miles/o Percentage Increase: On-site Air Pollution (see air quality or CO (1 hr): pp Proportion of Remain: Levels Employed (see Roadway: CO (1 hr): CO (8 hr): HC (3 hr):	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:
Traffic Generated (tr VMT Increase (miles/compensate increase inc	rips/day): iay): In Pollutants Rel a Levels alculation sheets m CO (8 hr): Ing Uncommitted (Existing Existing eased In Air when attacl ppm HC (Trip Length (mit vMT In Airshed: shed:	i: TSP (24 hr)	:ug/:

ENVIRONMENTAL ASSESSMENT BACKGROUND INFORMATION

IROMMENTAL SETTING IMPORMATION & IMPACT CALCULATI COPOGRAPHY (see attached topo map)	LONS (Options	11):	
		*Slope:	
Geology (Impact 1, 2 & 3)			
Bedrock (% site-symbol(name)-dip):			
Surficial Deposits (% site-symbol(name)): 100% Q	ұ Бо	Fluvial depos	k
Historic Marsh Area (% site - name)	, 		
Landslides (definite, prob	able,	_ questionable, _	active
O Soil Creep Areas (definite, pro	obable,	questionable, _	active
Active Faults (name - location): West Nov	n Fault- Etu	hy over	
O Other Faults (name - location):		U	
Unique/Scientifically Important Geologic/G	eomorphic Fe	ture:	
Geological Study: Take Consultants 16/2/88 H	azard for vun	time 1 trult is a	mer: There
slight For construction of alcology			
Soils (Impact 1, 7, 8, 10 & 51)			
sight for construction of allowing	Erosi		Potentia
Soils (Impact 1, 7, 8, 10 & 51)			
Soils (Impact 1, 7, 8, 10 & 51)			Potentia
Soils (Impact 1, 7, 8, 10 & 51)			Potentia
Soils (Impact 1, 7, 8, 10 & 51) % Site Number Name (Slope) Class			Potentia
Soils (Impact 1, 7, 8, 10 & 51)			Potentia
Soils (Impact 1, 7, 8, 10 & 51) % Site Number Name (Slope) Class			Potentia
Soils (Impact 1, 7, 8, 10 & 51) Z Site Number Name (Slope) Class Heteorology (Impact 4)			Potentia
Soils (Impact 1, 7, 8, 10 & 51) Z Site Number Name (Slope) Class Heteorology (Impact 4)			Potentia
Soils (Impact 1, 7, 8, 10 & 51) Z Site Number Name (Slope) Class Meteorology (Impact 4) Prevailing Wind Direction: Flooding (Impact 5 & 6)	Erosi	on Runoff	Potentia
Soils (Impact 1, 7, 8, 10 & 51) Z Site Number Name (Slope) Class Heteorology (Impact 4) Prevailing Wind Direction: Plooding (Impact 5 & 6) Delineated 100-Year Floodplain (Z site - 2)	Erosi	on Runoff	Potentia Use
Soils (Impact 1, 7, 8, 10 & 51) Z Site Number Name (Slope) Class Meteorology (Impact 4) Prevailing Wind Direction: Flooding (Impact 5 & 6) Delineated 100-Year Floodplain (Z site - 1)	Stream name)	on Runoff	Potentia Use

PART IV: POSSIBILITY OF SIGNIFICANT IMPACT (answer YES or NO)

YES	Does the project include excavation of the ground surface? (Possible archeological, geological, hydrological impacts)
	IF YES are there any reasons why there is no possibility of a significant impact from this source? LIST
	The project will serve an approved small winery where it was determined that the small winery was not located within an environmentally sensitive area.
NO	Does the project include alteration of the ground or native vegetation near undisturbed land or habitat or parks?
NO	Does the project include removal or replacement of native vegetation over more than one acre?
	(Possible habitat, recreational, visual impacts)
	IF YES are there any reasons why there is no possibility of a significant impact from this source? LIST
NO	Will the project generate traffic in excess of a single dwelling?
NO NO	Will project-generated traffic exceed 5% of the measured traffic or capacity of any road? Will the project generate a parking need for more vehicles than can be accommodated on site by existing facilities?
	(Possible traffic, air quality, hydrological impacts)
	IF YES are there any reasons why there is no possibility of a significant impact from this source? LIST
•	
•	

PART III: ELIGIBILITY FOR CATEGORICAL EXEMPTION (two or three checks are necessary to establish eligibility)

(The following applies to Categorical Classes 1 (additions over 10,000 sq.ft.), 3,4,5,6, and 11 only)

(The following applies to all Categorical Classes)

X No significant cumulative impact.

See Part IV. This can be checked only if all questions in Part IV are answered NO.

(The following applies to all Categorical Classes)

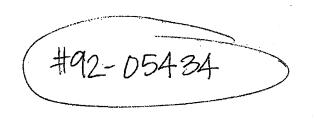
X No reasonable possibility of significant impact.

See Part V. This can be checked only if all questions in Part V are answered NO, or if any YES answers are explained.

PART IV: CUMULATIVE IMPACT (answer YES or NO)

- NO Will the project contribute to a cumulatively significant effect on traffic?
- NO Will the project contribute to a cumulatively significant effect on air quality?
- NO Will the project contribute to a cumulatively significant effect on loss of habitat (e.g. birds-of-prey, riparian, oak forest)?
- NO Will the project contribute to a cumulatively significant degradation or depletion of groundwater?
- NO Will the project contribute to a cumulatively significant degradation of surface waters or wetlands?
- NO Will the project contribute to a cumulatively significant degradation of ambient noise levels?

PART I:	EXEMPT applies)	FROM CEQA (STATUTORY EXEMPTION) (check if category				
General Rule: there is no possibility of a significant effect (15061(b)(3) Exchange of property or lease pursuant to State Lands boundary settlement (21080.11) Railroad grade crossing elimination or grade separation construction (21080.13) Restriping of streets or highways (21080.19) Underground pipeline in public ROW, less than 1 mile long (21080.21)						
PART II:	CATEGO	RICAL EXEMPTION CLASS				
	sec Gu che	ote: The following list of categories provides a short name showing the ope of each category, but does not fully define its applicability. State idelines Sec. 15301 et seq. and County Guidelines Sec. 409 should be ecked to determine if the class applies. This section must be impleted.)				
Clas	s 1: Ex	isting structures with no expansion of use				
		placement of structures				
X Clas	s 3: Ne	ew small structures				
Clas	s 4: M	inor alterations to land				
Clas	s 5: M	Minor land use limitations in areas under 20% slope				
Clas	Class 2: Replacement of structures Class 3: New small structures Class 4: Minor alterations to land Class 5: Minor land use limitations in areas under 20% slope Class 6: Research without major environmental disturbance Class 7 & 8: County environmental protection actions Class 9: Inspection activities Class 11: Signs Class 12: Certain sales of surplus County property Class 13: Acquisition of land to preserve natural condition Class 14: Additions to schools of 10 or fewer classrooms or 25% or less capacing the county land divisions into 4 or fewer parcels; or certain agriculture land divisions into 40-acre or larger parcels					
Clas	sses 7 & 8: (County environmental protection actions				
Clas	ss 9: In	spection activities				
Clas	ss 11: Si	gns				
Clas	ss 12: Ce	ertain sales of surplus County property				
Clas	ss 13: A	equisition of land to preserve natural condition				
Clas	ss 14: A	dditions to schools of 10 or fewer classrooms or 25% or less capacity				
Clas	ss 15: Ce	ertain urban land divisions into 4 or fewer parcels; or certain agricultural				
	la	nd divisions into 40-acre or larger parcels				
Clas		equisition of land for parks				
		gricultural preserve contracts				
		ertain annexations				
Class		eorganization of special districts				
Class 21: Class 22:		nforcement or revocation actions				
		ducational program changes involving only interior construction				
Class		ublic gatherings for which the facilities were designed				
Class		ounty regulation of employees				
Class	25: O	wnership transfers to preserve open space				
Class 26: Acquisition of housing by public housing agency						
Class		easing by County of existing facilities				



CATEGORICAL EXEMPTION
GRANTED_X
CLASS_3

PRELIMINARY ENVIRONMENTAL REVIEW (EXEMPTION CHECKLIST)

APPLICANT NAME: Chias de Napa Winery/McVicar

FILE NUMBER: #91400-SDS

PROJECT DESCRIPTION:

Special design sewage disposal application to construct a sewage disposal system designed with above grade raised berms to serve a winery located on the west side of Solano Ave. north of its intersection with Hoffman

ON <u>May 6, 1992</u>

Lane.

ASSESSORS PARCEL NUMBER(S): 34-160-08

supporting document(s) (including topographic map) are attached

FORM COMPLETED BY

Wintress Chatman Balcher

1