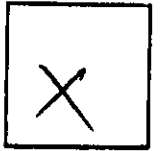




Type



Plans

BLD12-2592

Permit Number

4401

Street Number

Slusser Rd

Street Name

SRO

Community Code

057-070-031

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: Wright Contracting, Inc.	Date Applied: 6/25/12
---	------------------------------

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 4401 Slusser Road	City: Windsor	ZIP: 95492
Cross-Street: River Road	APN: 057-070-031	Project Phone #: ()
Directions:	Email address:	Project Fax #: ()
Describe Project: Construction of truck scale pit in support of construction and installation of truck scale.	Living Area _____	Contract Price: \$ 50,000
	Garage _____	
	Decks _____	

OWNER NAME AND ADDRESS			APPLICANT NAME AND ADDRESS		
Name: Sonoma-Cutrer Vineyards			Name: GLASS ARCHITECTS		
Mailing Address: P.O. Box 9			Mailing Address: 200 E Street		
City: Fulton	State: CA	ZIP: 95439	City: Santa Rosa	State: CA	ZIP: 95404
Day Ph: (707) 528-1177	Fax: (707) 528-1561		Day Ph: (707) 544-3920	Fax: (707) 544-2514	

CONTRACTOR INFORMATION			OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)		
Company Name: Wright Contracting, Inc.			Name:		
Address: P.O. Box 1270			Address:		
City: Santa Rosa	State: CA	ZIP: 95402	City:	State:	ZIP:
Day Ph: (707) 528-1172	Fax: (707) 528-3714		Day Ph: ()	Fax: ()	

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: **Travelers Property Casualty**
 Policy No.: **DTJ-UB-0863P25-7-11**

(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: **10/1/12** Applicant: **Wright Contracting, Inc.**

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 3708 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

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 _____

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following website: <http://www.leginfo.ca.gov/calaw.html>.

Date: _____ Signature of Property Owner or Authorized Agent: _____

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 **B, A, ASB** Lic. No. **417421**

Exp. Date **1/31/14** Contractor **Wright Contracting, Inc.**

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 81 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 the Certificate of Exemption for 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 law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE: _____
P.O. Box 1270 Santa Rosa CA 95402
 ADDRESS CITY ZIP

Contractor Owner Other Licensed Professional

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 _____

FOR DEPARTMENT USE

Zoning: **PA 86 60Z ER 1/08** File # **1/08** Acres: **80**

Existing Use/Structures: **Winery**

Proposed Use/Structures: **TRUCK SCALE**

Zoning Min. Yard Requirements: Front **30** Left **10** Right **10** Back **20**

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: _____ Approval for Occupancy: _____

By: _____ Date: **8-27-12**

Conditions: **OK per Sigurd Swenson**

Sewer Connection: Available Fees Paid

Approved by: _____ Date: _____

Road Encroachment: Fees Paid

Approved by: _____ Date: **6/26/12**

Septic System Permit Clearance # _____

Approved by: _____ Date: **6-26-12**

Flood Zone: Yes No 100 Year Flood Elevation: _____

Site Review

Drainage Review: _____ Date: **8/27/12**

Fire: **W/R Sinosilurichalk** Date: **7-23-12**

Code Enforcement Violation Yes No Violation # _____

This permit is limited to _____ days.

Work Authorized: **pit for truck scale**

<input checked="" type="checkbox"/> Plans Approved	<input type="checkbox"/> Post FIRM	<input type="checkbox"/> Alquist Priolo Report Available
<input type="checkbox"/> No Plans Subject to Field Inspection	<input type="checkbox"/> Pre FIRM	<input type="checkbox"/> Geotechnical report Available
Permit Check Date: 8/23/12	Type of Construction: VB	Occupancy: U
Permit Cleared for Issuance By: 8-27-12	Auto. Fire Sprinklers Req'd	No. of Units
		Certificate of Occupancy

Machine Space for Permit Fee

PERMIT REC'D

AUG 27 2012

JOB ADDRESS: **4401 Slusser Rd**

PERMIT NUMBER: **Bu01a-3446 2593**

INSPECTION AREA:

331) SPECIAL INSPECTION REQUIRED		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	IF YES, SEE ADDITIONAL SHEET	
INSPECTION RECORD		DATE	NAME	REMARKS	
101)	ROUGH GRADING				
103)	FOUNDATION				
	FORMS/SETBACK				
	FOOTING				
	WALLS				
106)	UFER GROUND #				
104)	CAISSONS/PIERS				
105)	SLAB				
107)	UNDERGROUND UTILITIES				
110)	MASONRY				
109)	RETAINING WALLS				
113)	FIREPLACE				
	FOOTING				
	HEARTH/PROTECTION				
	THROAT				
114)	CHIMNEY				
120)	UNDERFLOOR/UNDERSLAB				
115)	HYDRONICS				
116)	U/F ELECTRICAL				
117)	U/F MECHANICAL				
118)	U/F PLUMBING				
119)	U/F FRAMING				
139)	U/F INSULATION				
126)	SHEAR WALLS				
	<input type="checkbox"/> INTERIOR		<input type="checkbox"/> EXTERIOR		
127)	DIAPHRAGMS				
	<input type="checkbox"/> ROOF		<input type="checkbox"/> 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				
143)	FIREWALLS				
135)	STUCCO/PLASTER				
	<input type="checkbox"/> LATH		<input type="checkbox"/> SCRATCH		
137)	ROOFING				
130)	TUB/SHOWER PAN				
162)	FIRE DAMPERS/DOORS				
164)	SUSPENDED CEILING				
	<input type="checkbox"/> ROUGH ELEC.		<input type="checkbox"/> ROUGH MECH.		
165)	EXITING - RAMPS/STAIRS				
163)	HANDRAILS/GUARDRAILS				
	CORRIDORS/DOORS				
166)	ACCESSIBILITY COMPLIANCE			650)	SUSMP INSPECTION
144)	WATER TANKS			651)	NPDES EROSION COMPLIANCE
	<input type="checkbox"/> SLAB		<input type="checkbox"/> WALLS	652)	NPDES SEDIMENT COMPLIANCE
170)	TEMPORARY OCCUPANCY			653)	NPDES DOCS/SWPPP
171)	TEMPORARY ELECTRICAL			FIRE INSPECTION REQUIRED	
172)	TEMPORARY GAS			<input type="checkbox"/> Yes	<input type="checkbox"/> No
174)	ELECTRIC METER AUTHORIZATION			759)	KNOX BOX
152)	PANEL BOARDS/SERVICE			760)	PROPANE TANK HOLD DOWNS
189)	SEPTIC ELECTRIC FINAL			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			775)	PIPE WELD
	CONTINUITY			776)	HYDRANTS/APPLIANCES
	STAIRS/SKIRTS			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)	PRE-PLASTER/FENCE			CLEARANCES:	
197)	VINYL/FIBERGLASS POOL EXCAVATION			FIRE	<input type="checkbox"/> Local <input type="checkbox"/> County
102)	GRADING FINAL			HEALTH DEPARTMENT	
176)	ELECTRICAL FINAL			ZONING	
177)	MECHANICAL FINAL			SANITATION	
178)	PLUMBING FINAL				
199)	FINAL				
	OCCUPANCY (OK TO OCCUPY)			PLAN RETENTION REQUIRED	
				<input type="checkbox"/> Yes	<input type="checkbox"/> No

PERMIT # BLD12-24408
 2592

2/28/14 AMARTIN

lgmf

Statement of Special Inspections

CNI-033

SONOMA-CUTRER VINEYARDS
Name of Owner
BD12-2592
Permit Number

4401 SLUSSER RD, WINDSOR, CA 95492
Address
SONOMA-CUTRER VINEYARDS
Job Description

This Statement of and Schedule of Special Inspections is submitted to outline the requirements of CBC Chapter 17.

Included are:

- Schedule of Special Inspections and tests applicable to this project:
 - Special Inspections per Sections 1704 and 1705
 - Special Inspections for Seismic Resistance
 - Structural Observations per Section 1709
- List of the Testing Agencies and other special inspectors that will be retained to conduct the tests and inspections.
- Contractor's Statement of Responsibility, per CBC Section 1706.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this statement, and CBC sections 1704, 1705, 1707, and 1708.

The Schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.

Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with CBC Section 1704.1.2

A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.1.2). The Final Report will document:

- Required special inspections.
- Final results of required structural testing.
- Correction of discrepancies noted in inspections.

The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in CBC Section 1704.1.

This plan has been developed with the understanding that the Building Official will:

- Review and approve the qualifications of the Special Inspectors who will perform the inspections.
- Review submitted inspection reports.
- Perform inspections as required by the local building code.

Prepared by:

JOSHUA RUBERO, P.E.
Registered Design Professional in Responsible Charge

C78709
License Number

Signature

8-20-12
Date

Owner's Authorization:

Sonoma-Cutrere Vineyards
Owner
[Signature]
Signature
8/20/12
Date

Building Official's Acceptance:

Building Official
[Signature]
Signature

THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS. * DO NOT REMOVE THEM *

AUG 23 2012
Date

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue ♦ Santa Rosa, CA ♦ 95403-2829 ♦ (707) 565-1900 ♦ PERMIT # _____



Experience is the difference

Santa Rosa Office
1305 North Dutton Avenue
Santa Rosa, CA 95401
P: (707) 544-1072
F: (707) 544-1082

Napa Office
P.O. Box 10830
Napa, CA 94581
P: (707) 252-8105
F: (707) 544-1082

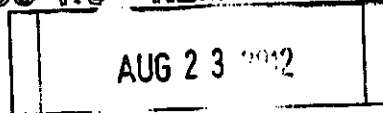
Middletown Office
P.O. Box 852
Middletown, CA 95461
P: (707) 987-4602
F: (707) 987-4603

July 18, 2012 (revised August 8, 2012)

THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS.

*** DO NOT REMOVE THEM * AUG 09 2012**

Sonoma Cutrer Vineyards
Attention: David Perata
4401 Slusser Road
Windsor, CA 95492
david_perata@b-f.com



GLASS ARCHITECTS

PERM AND RESOURCE
MANAGEMENT DEPARTMENT
BUILDING PLAN CHECK

Recommendations
Site Grading, Foundation Design Criteria
and Pavement Structural Section
Sonoma Cutrer Truck Scale
Windsor, California

Project Number: 1099.15.06.1

This letter documents our recommendations for site grading, foundation design criteria and the pavement structural section for the truck scale to be constructed at the Sonoma Cutrer Winery in Windsor, California.

Project Description

The truck scale will be installed in a +/- 300 foot long segment of Steel Ranch Road immediately west of the intersection of Steel Ranch Road and the entrance roadway to the Sonoma Cutrer Winery. Construction will include a semicircular roadway return to the winery entrance roadway from the west end of the truck scale. The roadways will be asphalt paved. Fills ranging to about 2 feet on Steel Ranch Road and 8 feet on the roadway return will be required to achieve plan grades.

Findings

During our geotechnical study, we found about 2½ to 5½ feet of existing expansive clay fill along the outboard edge of Steel Ranch Road and up to 4 feet of expansive surface soils along the proposed roadway return. The volumetric changes associated with expansive soils cause structural distress that is detrimental to the long-term satisfactory performance of fills, structures and pavements.

SITE GRADING

Areas to be developed should be cleared of vegetation and debris. Trees and shrubs that will not be part of the proposed development should be removed and their primary root systems grubbed. Cleared and grubbed material should be removed from the site and disposed of in accordance with County Health Department guidelines. We did not observe septic tanks, leach lines or underground fuel tanks during our study. Any such appurtenances found during grading should be capped and sealed and/or excavated and removed from the site, respectively, in accordance with established guidelines and requirements of the County Health Department. Voids created during clearing should be backfilled with engineered fill as recommended herein.

Unpaved areas to be graded should be stripped of the upper few inches of soil containing organic matter. Soil containing more than two percent by weight of organic matter should be considered organic. Actual stripping depth should be determined by a representative of the geotechnical engineer in the field at the time of stripping. The strippings should be removed from the site or stockpiled for re-use as topsoil in landscaping.

Within new paved areas, the old fill in the existing roadway should be removed in its entirety. The surface exposed by stripping and removal of the existing roadway fill should be scarified to a depth of at least 6 inches, uniformly moisture-conditioned to at least 4 percent above optimum and compacted to at least 90 percent of the maximum dry density of the materials as determined by ASTM Test Method D-1557. In expansive soil areas, moisture conditioning should be sufficient to completely close all shrinkage cracks for their full depth within planned new fill areas. If grading is performed during the dry season, the shrinkage cracks will extend up to a few feet below the surface. Therefore, it will be necessary to excavate a portion of the cracked soils to obtain the proper moisture condition and degree of compaction. Approved fill material should then be spread in thin lifts, uniformly moisture-conditioned to near optimum and properly compacted. All fills should be compacted to at least 90 percent relative compaction. Expansive soils used as fill should be moisture-conditioned to at least 4 percent above optimum. Only approved select materials should be used for fill within the upper 24 inches of the roadways.

Fill Quality

All fill materials should be free of perishable matter and rocks or lumps over 6 inches in diameter, and must be approved by the geotechnical engineer prior to use. The upper 24 inches of fill within the roadways should be select fill. We judge the on-site soils are generally suitable for use as general fill but will not be suitable for use as select fill.

Select Fill

Select fill should be free of organic matter, have a low expansion potential, and conform in general to the following requirements:

SIEVE SIZE	PERCENT PASSING (by dry weight)
6 inch	100
4 inch	90 – 100
No. 200	10 – 60

Liquid Limit – 40 Percent Maximum
 Plasticity Index – 15 Percent Maximum
 R-value – 20 Minimum

SPREAD FOOTINGS

Spread footings should bottom on firm soils at least 12 inches below lowest adjacent grade. Additional embedment or width may be needed to satisfy code and/or structural requirements. The bottoms of all footing excavations should be thoroughly cleaned out or wetted and compacted using hand-operated tamping equipment prior to placing steel and concrete. This will remove the soils disturbed during footing excavations, or restore their adequate bearing capacity, and reduce post-

construction settlements. Footing excavations should not be allowed to dry before placing concrete. If shrinkage cracks appear in soils exposed in the footing excavations, the soil should be thoroughly moistened to close all cracks prior to concrete placement. The moisture condition of the foundation excavations should be checked by the geotechnical engineer no more than 24 hours prior to placing concrete.

Bearing Pressures - Footings installed in accordance with these recommendations may be designed using allowable bearing pressures of 2000, 3000, and 4000 pounds per square foot (psf), for dead loads, dead plus code live loads, and total loads (including wind and seismic), respectively.

Lateral Pressures - The portion of spread footing foundations extending into firm soil may impose a passive equivalent fluid pressure and a friction factor of 350 pcf and 0.35, respectively, to resist sliding.

PAVEMENT STRUCTURAL SECTION

Provided the site grading is performed as recommended herein, the uppermost 24 inches of pavement subgrade soils will be imported select fill with a minimum R-value of 20. Based on that R-value we recommend the pavement sections listed in the table below be used.

PAVEMENT SECTIONS WITH IMPORTED SELECT FILL SUBGRADE			
TI	ASPHALT CONCRETE (feet)	CLASS 2 AGGREGATE BASE (feet)	IMPORTED SELECT FILL* (feet)
7.5	0.35	1.10	2.0
7.0	0.35	0.95	2.0
6.5	0.30	0.90	2.0

Pavement thicknesses were computed using Caltrans Cal FP Version 1.1 design software and are based on a pavement life of 20 years. The project design engineer should choose the pertinent (TI) for this project.

Because of the very high expansion potential of the soil at the site and the difficulty in controlling seasonal moisture variation beneath and adjacent to the roadway, significant cracking may develop in the pavement even if 24-inches of select fill is installed. Increasing the thickness of select fill or installing moisture cutoffs may reduce but not eliminate the potential for cracks to develop. It should be understood that pavements will likely require regular maintenance including crack sealing and the aesthetics may not be desirable.

SUPPLEMENTAL SERVICES

During construction, we should observe site excavations, compaction of fills and perform field and laboratory testing. These observations and testing will allow us to check the contractor's methods and materials, verify that the soil conditions are as anticipated, and modify our recommendations, if necessary. Our geotechnical consultation and grading observation and testing services provided during the construction phase of the project will be documented in a written report.

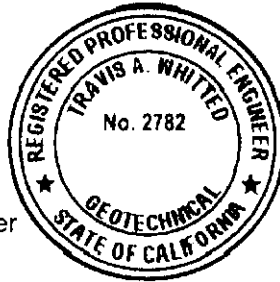
RGH

We trust this provides the information you require at this time. Please call if you have questions.

Very truly yours,
RGH Consultants



Travis A. Whitted
Senior Geotechnical Engineer



KSG:TAW:kg:lw
Two copies submitted

cc: Glass Architects
Attention: Eric M. Glass, AIA
200 E Street, Suite 100
Santa Rosa, CA 95404
eglass@glassarchitects.com

s:\project files\1000-1250\1099.15.06.1 sonoma culrer truck scale\site grading & pavement structural section recommendations (revised).doc

FORSYTHE

ENGINEERING CONSULTANTS

County of Sonoma
Permit & Resource Management Dept.
c/o Building Inspection
2550 Ventura Avenue
Santa Rosa, CA 94403-2829

Date: September 15, 2012

PERMIT# BLD12-2556

*Hoist & Foundation Pit
for Receiving grapes.*

PROJECT:
Sonoma Cutrer Winery
Harvest Equipment &
Truck Scale
4401 Slusser Road
Windsor, CA

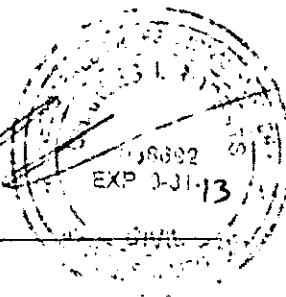
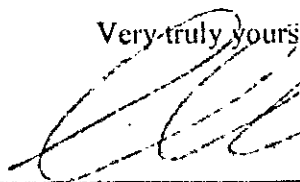
SUBJECT: FINAL INSPECTION LETTER

This is to certify that in accordance with Section 1704 of the California Building Code, we have provided the Special Inspections summarized below:

- 1. Reinforcing Steel Placement**
Footings, Slab, 2 Pits, Pit Walls
- 2. Concrete Placement & Sampling**
Scale Foundation, Walls for Scales, Crane Pit
- 3. Structural Steel Welding**
*Hoist Frame - 24" diameter pipe col. (HSS16x8x $\frac{3}{8}$ " beam arm)
 $\frac{3}{8}$ " fillet @ 24" diameter pipe col. & 24" diameter cut pipe to 1 $\frac{1}{2}$ " base plate cut 24" diameter pipe to 24" diameter pipe col.
 $\frac{3}{8}$ " flare bevel groove @ cut 24" diameter pipe to 24" diameter pipe col.
 $\frac{3}{8}$ " partial pen @ cut 24" diameter pipe to 24" diameter pipe column & 24" cut pipe
 $\frac{3}{8}$ " fillet @ $\frac{1}{2}$ " end plate to HSS 16x8x $\frac{3}{8}$ " & $\frac{3}{8}$ " plate
 $\frac{3}{8}$ " plate to HSS 16x8x $\frac{3}{8}$ ", ST9x27.35, $\frac{3}{8}$ " & $\frac{1}{2}$ " plates
 $\frac{1}{2}$ " plate w/ studs to HSS 16x8x $\frac{3}{8}$ "
Flare bevel @ $\frac{1}{2}$ " plate w/ studs to HSS 16x8x $\frac{3}{8}$ "
CP welding @ ST9x27.35 to HSS16x8x $\frac{3}{8}$ "*

Based upon inspections performed and our substantiating reports, it is our professional judgment that, to the best of our knowledge, the inspected work was performed in accordance with the approved plans, specifications, and applicable workmanship provisions of the California Building Code.

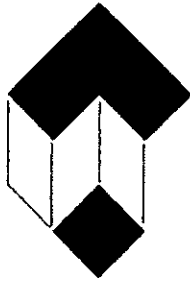
Very truly yours:



Charles J. Roberts
Chief Engineer

RCE no. C-038692, Exp. 3/31/13

4401 Slusser Rd



WRIGHT CONTRACTING

GENERAL CONTRACTOR & CONSTRUCTION MANAGEMENT

P: 707.528.1172 www.WRIGHTCONTACTING.COM F: 707.528.3714

February 28, 2014

To: Permit and Resource Management
Attn: Rob Spaulding
2250 Ventura Ave
Santa Rosa, CA 95403

Project: Sonoma Cutrer Vineyards
Permit # BLD 12 2592

Thick Scale Pit

Please find attached Special inspectors reports, mix design, ground penetrating radar reports and pictures. If there is anything else that you need from me please feel free to contact me.

Sincerely,

Andy Adair
aadair@wrightcontracting.com
C-707-490-8969
WRIGHT CONTRACTING, INC.

RETAIN
Retain AV

THREE (3) FOOT DEEP SCALE PIT STRESS ANALYSIS DRAWING NO. D56218-0018 Rev. A

page 1

***** PIT WALLS, SOIL PRESSURE FROM SIDE *****

WALL HEIGHT, h:	36 in
WALL THICKNESS, t:	8 in
FLOOR THICKNESS, t:	8 in
STEEL STRENGTH, fy:	60000 psi
CONCRETE STRENGTH, fc:	3500 psi
REBAR SIZE, DIA:	0.5 in
REBAR SPACING, IN:	18 in
REBAR AREA/FOOT OF WALL, As, IN ² :	0.13090 in ² / foot of wall
CENTERLINE OF REBAR TO WALL EDGE, d:	6.00 in
p=As/bd:	0.00181805

a=As*fy/0.85*fc*b:	0.22000
ACTUAL a/d:	0.03667
ab/d=b ³ *(87,000/(87,000+fy)):	0.50306
.75*ab/d:	0.37730 MUST BE >= ACTUAL a/d!!!

*** NOMINAL MOMENT CAPACITY OF WALL, Mn:

Mn=As*fy*(d-a/2):	46,260 in-lbs/foot of wall
	3,855 ft-lbs/foot of wall
DESIGN Mn=0.9*Mn	3,469 ft-lbs/foot of wall

*** ACTUAL BENDING MOMENT IN WALL

*** ASSUMPTIONS:

1. RIGID SUPPORT OF WALL TO FLOOR JOINT
2. SOIL ANGLE OF INTERNAL FRICTION=

	30 degrees
	0.52360 radians
3. SOIL UNIT WEIGHT, g=

	120 lbs/ft ³
	150 lbs/ft ³
4. CONCRETE UNIT WEIGHT=

	150 lbs/ft ³
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5. IGNORE THE SUPPORT OF THE PIERS

*** ACTIVE LATERAL PRESSURE ON WALL

Pa=g*H ² /2*((1-sin A)/(1+sin A))	180.00 lbs/ft of wall
MOMENT ARM, H/3:	12.00 in from bottom of wall
ACTIVE BENDING MOMENT, Mb=Pa*H/3:	2160.00 in-lbs/foot of wall
	180.00 ft-lbs/foot of wall

*** PASSIVE LATERAL PRESSURE ON WALL

Pp=g*H ² *((1+sin A)/(1-sin A))	540.00 lbs/ft of wall
PASSIVE BENDING MOMENT, Mp=Pp*H/3	6480.00 in-lbs/foot of wall
	540.00 ft-lbs/foot of wall

PASSIVE PLUS ACTIVE BENDING MOMENT:

	720.00 ft-lbs/foot of wall
	20.75% Design Moment



THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS.

* DO NOT REMOVE THEM

AUG 23 2012

PERMITS AND RESOURCE
MANAGEMENT DEPARTMENT
PLANNING AND DESIGN