

31
5

7111 Hwy 128

(BLDOI-0473)

COUNTY OF SONOMA

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA

(707) 565-1900 FAX (707) 565-1103

BUILDING PERMIT RECEIPT

BLD01-0473

Site Location Information
 Address: 7111 HWY 128 GEY
 Cross Street: PINEFLAT RD

Printed By: SPATTERS 10:26 Mar 02, 2001
 APN: 131-190-003
 Initialized By: BKEARNS B-BLD 0001

<p>Owner JACKSON FAMILY ESTATES I LLC C/O JESS J JACKSON JR 421 AVIATION BLVD SANTA ROSA CA 954031069 707 544 4000</p>	<p>Applicant VON RAUSFELD STEVE 421 AVIATION BLVD SANTA ROSA CA 95403 535 8484</p>
<p>Contractor</p>	<p>Architect or Engineer</p>
<p>Lic. #:</p>	<p>Lic. #:</p>

This Building Permit Shall Expire: 02/13/2002

Status: PC APRVD
 Issued:

Permit Description: ROCK WALL/ENTRY (2 pair, both sides of entry)

Valuation/Contract \$: \$150,000.00 PC-Calc (Old/New): 0 PERM-Calc (Old/New): 0 Type: COTH
 Plancheck Multiplier: 1.00 Penalty Multiplier (Where Applicable):

Occupancy	Type	Factor	Sq. Feet	Valuation
				Subtotal: .00
				Multiplier 1.00: .00
				Addl Fixed Amount: 150,000.00
				Total Valuation: 150,000.00

Table Date: 07/01/2000

Item #	Item Account Code	Description	Fee	Previously Paid
0011	025015-1341 3505	INSPECTIONS - OTHER	\$.00	\$.00
0012	025015-1341 3505	INSP. OUTSIDE NORMAL HRS	\$.00	\$.00
0013	025015-1341 3505	REINSPECTION(S) FEE	\$.00	\$.00
0021	327023-4040	S.M.I.P COMMERCIAL	\$31.50	\$.00
0060	025015-1341	BLDG PERM PLAN CHECK FEE	\$891.74	\$891.74
0062	025015-1341	ADDITIONAL PLANCHECK FEE	\$.00	\$.00
0100	025015-1341 3502	SITE REVIEW/ELEV. CERT.	\$.00	\$.00
0119	649103-3661	CO FIRE MARSHAL REVIEW	\$350.00	\$.00
0120	025015-1341 3504	FIRE STDS INSPECT - PRMD	\$.00	\$.00
0121	025015-1341	FIRE SAFE STDS & REF PRMD	\$.00	\$.00
0122	025015-1341 3504	ELECTRICAL FEE	\$.00	\$.00
0123	025015-1341 3504	MECHANICAL FEE	\$.00	\$.00
0124	025015-1341 3504	PLUMBING FEE	\$.00	\$.00
0132	025015-1341 3504	BUILDING PERMIT FEE	\$1,371.94	\$.00
0220	025015-1600	VIO. PENALTY FEE (BLDG)	\$.00	\$.00
0221	025015-4114 2001	VIO. INVEST. FEE (BLDG)	\$.00	\$.00
0366	025015-1342 0411	CLEARANCE OFFICE REVIEW	\$.00	\$.00
0707	025015-3140 6054	REF.-GRADING/DRAIN. PLAN	\$.00	\$.00
0708	025015-3140 6055	REF.-GRD/DRAIN DAM/DRVWY	\$.00	\$.00
1165	025015-3829 6146	ZONING PERMITS W/O D.R.	\$30.00	\$.00
2000	335208-4040	CTY-WDE CE TRAFFIC MIT	\$.00	\$.00
2001	335307-4040	CTY-WDE NO TRAFFIC MIT	\$.00	\$.00
2002	335406-4040	CTY-WDE SO TRAFFIC MIT	\$.00	\$.00
2003	335305-4040	CTY-WDE WE TRAFFIC MIT	\$.00	\$.00
2005	335042-4040	EASTMN LN TRAFFIC MIT	\$.00	\$.00
2006	335075-4040	MOORLAND AV DRAINAGE MIT	\$.00	\$.00
2007	335034-4040	LARK/WIKIUP TRAFFIC MIT	\$.00	\$.00
2008	335059-4040	SONOMA VLY TRAFFIC MIT	\$.00	\$.00
5011	025015-1341-W 3505	INSPECTIONS - OTHER	\$.00	\$.00
5012	025015-1341-W 3505	INSP. OUTSIDE NORMAL HRS	\$.00	\$.00
5013	025015-1341-W 3505	REINSPECTION(S) FEE	\$.00	\$.00
5060	025015-1341-W	BLDG PERM PLAN CHECK FEE	\$.00	\$.00
5062	025015-1341-W	ADDITIONAL PLANCHECK FEE	\$.00	\$.00
5100	025015-1341-W 3502	SITE REVIEW/ELEV. CERT.	\$.00	\$.00
5119	649103-3661-W	CO FIRE MARSHAL REVIEW	\$.00	\$.00
5120	025015-1341-W 3504	FIRE STDS INSPECT - PRMD	\$.00	\$.00
5121	025015-1341-W	FIRE SAFE STDS & REF PRMD	\$.00	\$.00
5122	025015-1341-W 3504	ELECTRICAL FEE	\$.00	\$.00
5123	025015-1341-W 3504	MECHANICAL FEE	\$.00	\$.00
5124	025015-1341-W 3504	PLUMBING FEE	\$.00	\$.00
5132	025015-1341-W 3504	BUILDING PERMIT FEE	\$.00	\$.00
5220	025015-1600-W	VIOLATION PENALTY FEE	\$.00	\$.00
5221	025015-4114-W 2001	VIOLATION INVESTIG FEE	\$.00	\$.00
5366	025015-1342-W 0411	CLEARANCE OFFICE REVIEW	\$.00	\$.00
5707	025015-3140-W 6054	REF.-GRADING/DRAIN. PLAN	\$.00	\$.00
5708	025015-3140-W 6055	REF.-GRD/DRAIN DAM/DRVWY	\$.00	\$.00
6165	025015-3829-W 6146	ZONING PERMITS W/O D.R.	\$.00	\$.00
7000	335208-4040-W	PRM-CO-WDE CE DEV FEE TR	\$.00	\$.00
7001	335307-4040-W	PRM-CO-WDE NO DEV FEE TR	\$.00	\$.00
7002	335406-4040-W	PRM-CO-WDE SO DEV FEE TR	\$.00	\$.00
7003	335505-4040-W	PRM-CO-WDE WE DEV FEE TR	\$.00	\$.00
7005	335042-4040-W	PRM-EASTMN LN DEV FEE TR	\$.00	\$.00
7006	335075-4040-W	PRM-MOORLAND DEV FEE TR	\$.00	\$.00
7007	335034-4040-W	PRM LARK/WIK SP PLN DEV	\$.00	\$.00
7008	335059-4040-W	PRM-SONOMA VLY DEV FEE T	\$.00	\$.00

Qualific. (or fee waivers (Y/N): N

Total Calculated Fees	\$2,675.18	\$891.74
Previously Paid	\$891.74	
Balance Due	\$1,783.44	

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: STEVE VON RAESFELD (JOHN R. SEWAGE) Date Applied: _____

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: <u>7111 HIGHWAY 128</u>	City: <u>GREYSVILLE</u>	ZIP: <u>95441</u>
Cross-Street: <u>AVIATION BLVD</u>	APN: <u>131-190-003</u>	Project Phone #: <u>565 N.A.</u>
Directions:	Subd. Name:	Project Fax #: ()
Describe Project: <u>ROCK WALL/ENTRY</u>	Living Area _____	Contract Price: <u>\$150,000</u>
	Garage _____	
	Decks _____	

OWNER NAME AND ADDRESS			APPLICANT NAME AND ADDRESS		
Name: <u>STONE STREET LLC</u>	Name: <u>STEVE VON RAESFELD</u>		Name: <u>STEVE VON RAESFELD</u>		
Mailing Address: <u>7111 HWY 128</u>	Mailing Address: <u>421 AVIATION BLVD</u>		Mailing Address: <u>421 AVIATION BLVD</u>		
City: <u>GREYSVILLE</u> State: <u>CA</u> ZIP: <u>95441</u>	City: <u>SANTA ROSA</u> State: <u>CA</u> ZIP: <u>95403</u>				
Day Ph: () <u>433-9463</u> Fax: () <u>433-9469</u>	Day Ph: () <u>565-2984</u> Fax: () <u>565-2984</u>	Day Ph: () <u>565-2984</u> Fax: () <u>565-2984</u>	Day Ph: () <u>565-2984</u> Fax: () <u>565-2984</u>	Day Ph: () <u>565-2984</u> Fax: () <u>565-2984</u>	Day Ph: () <u>565-2984</u> Fax: () <u>565-2984</u>

CONTRACTOR INFORMATION			OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)		
Company Name: <u>N.A. DAVE 478-0005</u>	Name: _____		Name: _____		
Address: _____	Address: _____		Address: _____		
City: _____ State: _____ ZIP: _____	City: _____ State: _____ ZIP: _____	City: _____ State: _____ ZIP: _____	City: _____ State: _____ ZIP: _____	City: _____ State: _____ ZIP: _____	City: _____ State: _____ ZIP: _____
Day Ph: () _____ Fax: () _____	Day Ph: () _____ Fax: () _____	Day Ph: () _____ Fax: () _____	Day Ph: () _____ Fax: () _____	Day Ph: () _____ Fax: () _____	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 in worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

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

Carrier: _____
 Policy No.: _____

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

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

Exp. Date: _____ Applicant: _____

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 Contractor's 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 Contractor's 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 Contractor's License Law).

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

Date: _____ Owner: [Signature]

LICENSED CONTRACTOR'S DECLARATION

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

Lic. Class: _____ Lic. No.: _____

Exp. Date: _____ Contractor: _____

ASBESTOS DECLARATION

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

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making 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: [Signature]

ADDRESS: 421 AVIATION BLVD SANTA ROSA CITY: SANTA ROSA ZIP: _____

Contractor Owner Agent for Contractor Agent for Owner

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that this 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: LA 60-20 Area: 45.8

Existing Use/Structures: Stone Street Winery

Proposed Use/Structures: New Rock Wall/Entry

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

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: [Signature] Date: 3/2/01

Conditions: JPE 98-0008
No lighting or sign
Only one name on wall permit

Sewer Connection: Available Fees Paid

Approved by: _____ Date: _____

Road Encroachment: Fees Paid

Approved by: _____ Date: _____

Septic System Permit/Clearance # _____

Approved by: [Signature] Date: 2-6-2001

Flood Zone: Yes No 100 Year Flood Elevation: _____

Site Flow: _____

Code Enforcement Violation: Yes No Violation # _____

This permit is Enticed to _____ days.

Work Authorized: Entry walls (gate not included)

New Addition Alteration Repair Moving Occ/Chg

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

<input checked="" type="checkbox"/> Plans Approved	Machine Space for Permit Fee
<input type="checkbox"/> No Plans Subject to Field Inspection	
Planned Cleared By: <u>MWE</u> Date: <u>2/28/01</u>	EXPIRED 3-1-04 SB
Permit Cleared By: <u>UR</u> Date: <u>3-2-01</u>	
<input type="checkbox"/> Post FRM <input type="checkbox"/> Adjust Prior FRM	
<input type="checkbox"/> Pre FRM <input type="checkbox"/> Geotechnical report Available	
Type of Construction: <u>VN</u> Occupancy: <u>U2</u> No. of Stories: _____ Date of Issuance: _____	
Auto. Fire Sprinklers Req'd: _____ No. of Units: _____ Date of Occupancy: _____	
Final Date: <u>134DA000803/02/01 SUBTTL</u>	<u>1783.44</u>

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

ADDRESS: 7111 Highway 128 MAP REFERENCE: PERMIT NUMBER: BDA1-0473 INS

Permit # BDA1-0473 Area 8'
 Permit Coordinator _____

131)	SPECIAL INSPECTION REQUIRED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	IF YES, SEE ADDITIONAL SHEET
	INSPECTION RECORD	DATE	NAME	REMARKS
	FOUNDATION	5-27-03	SB	Entry walls (2 pairs)
	FORMS/SETBACK			
	FOOTING			
	WALLS			
106)	UFER GROUND #			
104)	CAISSONS/PIERS			
105)	SLAB			
110)	MASONRY	8-8-03	SB	7-23-03 WIRE TIES VERIFIED SB
109)	RETAINING WALLS			AT 5'S/WALL
113)	FIREPLACE			8-4-03 WIRE TIES AT 5' N/WALL OK SB
	FOOTING			
	HEARTH/PROTECTION			
	THROAT			
114)	CHIMNEY			
120)	UNDERFLOOR/UNDERSLAB			
116)	U/F ELECTRICAL			
117)	U/F MECHANICAL			
118)	U/F PLUMBING			
119)	U/F FRAMING			
139)	U/F INSULATION			
126)	SHEAR WALLS			
	<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			
135)	STUCCO/PLASTER			
	<input type="checkbox"/> LATH			
	<input type="checkbox"/> SCRATCH			
137)	ROOFING			
130)	TUB/SHOWER PAN			
164)	SUSPENDED CEILING			
	ROUGH ELECTRICAL			
	ROUGH MECHANICAL			
165)	EXITING			
	STAIRS/HANDRAILS			
	RAMPS			
	CORRIDORS/DOORS			
166)	ACCESSIBILITY COMPLIANCE			
	ENERGY REQUIREMENTS			
170)	TEMPORARY OCCUPANCY			FIRE INSPECTION REQUIRED
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
171)	TEMPORARY ELECTRICAL			770) SPRINKLER FINAL
172)	TEMPORARY GAS			771) ABOVEGROUND HYDROSTATIC
174)	ELECTRIC METER AUTHORIZATION			772) UNDERGROUND HYDROSTATIC
152)	PANEL BOARDS/SERVICE			773) UNDERGROUND FLUSH
175)	GAS METER AUTHORIZATION			774) THRUST BLOCKS
153)	GAS PRESSURE TEST			775) PIPE WELD
	HOUSE			776) HYDRANTS/APPLIANCES
	YARD			777) PUMP ACCEPTANCE
190)	MANUF. HOME FOUNDATION			778) WATER SUPPLY/TANK
191)	MANUF. HOME INSTALLATION			779) ALARM SYSTEM
	CONTINUITY			780) HOOD & DUCT SYSTEM
	STAIRS/SKIRTS			781) ABOVEGROUND TANK/DISPENSER
	RIDGE BOLTING			198) FIRE FINAL
	SWIMMING POOLS			
194)	PRE-GUNITE			
195)	PRE-DECK			CLEARANCES:
196)	PRE-PLASTER/FENCE			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			N.C.A.P.C.D.
199)	FINAL			
	OCCUPANCY (OK TO OCCUPY)			PLAN RETENTION REQUIRED?
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

PERMIT # 8101-0473



COUNTY OF SONOMA PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403-2829 (707) 565-1900 FAX (707) 565-1103

Building Permit Application Checklist

Residential Commercial

7111 Hwy 128
Project address/City
Rd 01-0474
Building Permit #
LANDSCAPE STRUCTURE
Project Description
Comments

STEVE VAN RAESFELD
Contact Name
How to return redlined plans to you for corrections:
 Call to Pickup - Phone# 535-8484/984137
 Mail to

Note: This form lists submittal requirements, clearances and development fees that apply to your permit.
All required clearances must be obtained and fees paid before a permit will be issued.

For Department Use Only - Do not write below this line until directed to sign.

Required Plans

- 4 complete sets of signed plans (stamped if required) (Additional sets may be required)
- 2 sets of legible Site Plan and Floor Plan for Well & Septic clearance
- ___ additional sets or plans are required for

Plan Contents

Mandatory Items

- | Qty. Rcvd. | |
|------------|---|
| 1 | Plot/Site Plan |
| 1 | Floor Plan (Electrical, Plumbing, Mechanical) |
| 1 | Foundation Plan (Footing Details) |
| 1 | Elevations |
| 1 | Framing Plan |
| 1 | Cross Sections |
| 1 | Structural Details |
| 1 | Signed Drawings (Stamped if Engineered) |

Other Items Which May be Required

- | Required | Rcvd | |
|----------|------|---|
| ___ | ___ | Title 24 Energy Calcs (2 signed, stamped sets) |
| ___ | ___ | Engineering Calcs (2 signed, stamped sets) |
| ___ | ___ | Geotechnical Report (2 signed, stamped sets) |
| ___ | ___ | Geotechnical Foundation Approval Letter |
| ___ | ___ | Truss Calcs & Layout (2 signed, stamped sets) |
| ___ | ___ | Flood Elevation Certificate |
| ___ | ___ | Flood Prone Urban Area (Disposal of excess materials) |
| ___ | ___ | Special Inspection Form |

Optional Item: ___ Peer Review Letter

Staff Signature

PRMD Clearances (Fees may be required)

Required	Comments	Obtained	Staff Approval
<input type="checkbox"/>	Code Enforcement Cubicle	<input type="checkbox"/>	___
<input type="checkbox"/>	Investigation Fees (Equal to total of bldg., plmb., elec., mech. fees)	<input type="checkbox"/>	___
<input checked="" type="checkbox"/>	Planning Cubicle	<input type="checkbox"/>	___
<input type="checkbox"/>	Well & Septic Cubicle	<input type="checkbox"/>	___
<input type="checkbox"/>	Plan Check Cubicle	<input type="checkbox"/>	___
<input type="checkbox"/>	Construction Inspection Cubicle	<input type="checkbox"/>	___
<input type="checkbox"/>	Sewer/Water	<input type="checkbox"/>	___
<input type="checkbox"/>	Road Encroachment	<input type="checkbox"/>	___
<input type="checkbox"/>	Drainage Review	<input type="checkbox"/>	___
<input type="checkbox"/>	Project Review - Health	<input type="checkbox"/>	___

Development Fees

- | Rqd. | | Rqd. | |
|--------------------------|---|--------------------------|------------------------------------|
| <input type="checkbox"/> | School Mitigation Fee (Payable at School District) | <input type="checkbox"/> | Park Mitigation Fee |
| <input type="checkbox"/> | Fire Mitigation Fee for Windsor Area (Payable at Windsor F.P.D.) | <input type="checkbox"/> | Residential Traffic Mitigation Fee |
| <input type="checkbox"/> | Fire Mitigation Fee for Airport (Payable at Rincon Valley F.P.D.) | <input type="checkbox"/> | Commercial Traffic Mitigation Fee |

Outside Agency Clearances (Fees may be required)

Rqd.	Rcvd.		Rqd.	Rcvd.	
<input type="checkbox"/>	<input type="checkbox"/>	County Dept. Of Health Services	<input type="checkbox"/>	<input type="checkbox"/>	Utility Certificate (City of Santa Rosa)
<input type="checkbox"/>	<input type="checkbox"/>	Food Handling	<input type="checkbox"/>	<input type="checkbox"/>	Air Quality District
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous Materials	<input type="checkbox"/>	<input type="checkbox"/>	California Dept. Of Fish & Game
<input type="checkbox"/>	<input type="checkbox"/>	Public Pools & Spas	<input type="checkbox"/>	<input type="checkbox"/>	California Coastal Commission
<input type="checkbox"/>	<input type="checkbox"/>	Water District	<input type="checkbox"/>	<input type="checkbox"/>	Other
<input type="checkbox"/>	<input type="checkbox"/>	Sewer District	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	Arch. Review/Homeowner's Assoc.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	County Fire Marshal	<input type="checkbox"/>	<input type="checkbox"/>	

Applicant Signature

Staff Signature

Date Submitted



COUNTY OF SONOMA
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
 2550 Ventura Avenue, Santa Rosa, CA 95403-2829 (707) 565-1900 FAX (707) 565-1103

Building Permit Application Checklist

Residential Commercial

Project address/City 7111 HIGHWAY 128 / GEORGETOWN

Contact Name STEVE VAN PAESFELD

Building Permit # 1001-0473

How to return redlined plans to you for corrections:

Project Description ENTER / ROCK WALL

Call or Pickup - Phone# 535-8484 / 953-4187

Comments _____

Mail to _____

Note: This form lists submittal requirements, clearances and development fees that apply to your permit. All required clearances must be obtained and fees paid before a permit will be issued.

Ⓢ For Department Use Only - Do not write below this line until directed to sign. Ⓢ

----- Required Plans -----

- 4 complete sets of signed plans (stamped if required) (Additional sets may be required)
- 2 sets of legible Site Plan and Floor Plan for Well & Septic clearance
- _____ additional sets or plans are required for _____

----- Plan Contents -----

Mandatory Items		Other Items Which May be Required		
Qty.	Rev'd.	Required	Rev'd.	
_____		_____	_____	Title 24 Energy Calcs (2 signed, stamped sets)
_____		_____	_____	Engineering Calcs (2 signed, stamped sets)
_____		_____	_____	Geotechnical Report (2 signed, stamped sets)
_____		_____	_____	Geotechnical Foundation Approval Letter
_____		_____	_____	Truss Calcs & Layout (2 signed, stamped sets)
_____		_____	_____	Flood Elevation Certificate
_____		_____	_____	Flood Prone Urban Area (Disposal of excess materials)
_____		_____	_____	Special Inspection Form
Optional Item: _____ Peer Review Letter		Staff Signature _____		

----- PRMD Clearances (Fees may be required) -----

Required	Comments	Obtained	Staff Approval
<input type="checkbox"/>	Code Enforcement Cubicle _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Investigation Fees (Equal to total of bldg.,plmb.,elec.,mech. fees)	<input type="checkbox"/>	_____
<input type="checkbox"/>	Penalties (Equal to total of bldg.,plmb.,elec.,mech. fees x _____)	<input type="checkbox"/>	_____
<input checked="" type="checkbox"/>	Planning Cubicle _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Well & Septic Cubicle _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Plan Check Cubicle _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Construction Inspection Cubicle _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Sewer/Water _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Road Encroachment _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Drainage Review _____	<input type="checkbox"/>	_____
<input type="checkbox"/>	Project Review - Health _____	<input type="checkbox"/>	_____

----- Development Fees -----

<input type="checkbox"/> School Mitigation Fee (Payable at School District)	<input type="checkbox"/> Park Mitigation Fee
<input type="checkbox"/> Fire Mitigation Fee for Windsor Area (Payable at Windsor F.P.D.)	<input type="checkbox"/> Residential Traffic Mitigation Fee
<input type="checkbox"/> Fire Mitigation Fee for Airport (Payable at Rincon Valley F.P.D.)	<input type="checkbox"/> Commercial Traffic Mitigation Fee

----- Outside Agency Clearances (Fees may be required) -----

Rqd.	Rev'd.	Rqd.	Rev'd.	Rqd.	Rev'd.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
County Dept. Of Health Services		Water District _____		Utility Certificate (City of Santa Rosa)	
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous Materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Public Pools & Spas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Arch. Review/Homeowner's Assoc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	County Fire Marshal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applicant Signature _____ Staff Signature B. Keen Date Submitted 2-06-01

STONE STREET

Memorandum

Date: February 5, 2001
To: Sonoma PRMD
From: Steve vonRaesfeld
Re: Application for Stonestreet Rock Wall/Entry, Rose Arbor

This letter shall authorize Johanne Seymour to submit Building Permit Applications for the following projects at the Stonestreet Winery;

- Wall / Entry
- Rose Arbor (Landscape Structure)



Steve vonRaesfeld
Project Manager / Architect



ARCHITECTURE PLANNING INTERIOR DESIGN
1248 BUSH STREET SAN FRANCISCO CA 94109
415.441.8360 WWW.BARARCH.COM

BAR

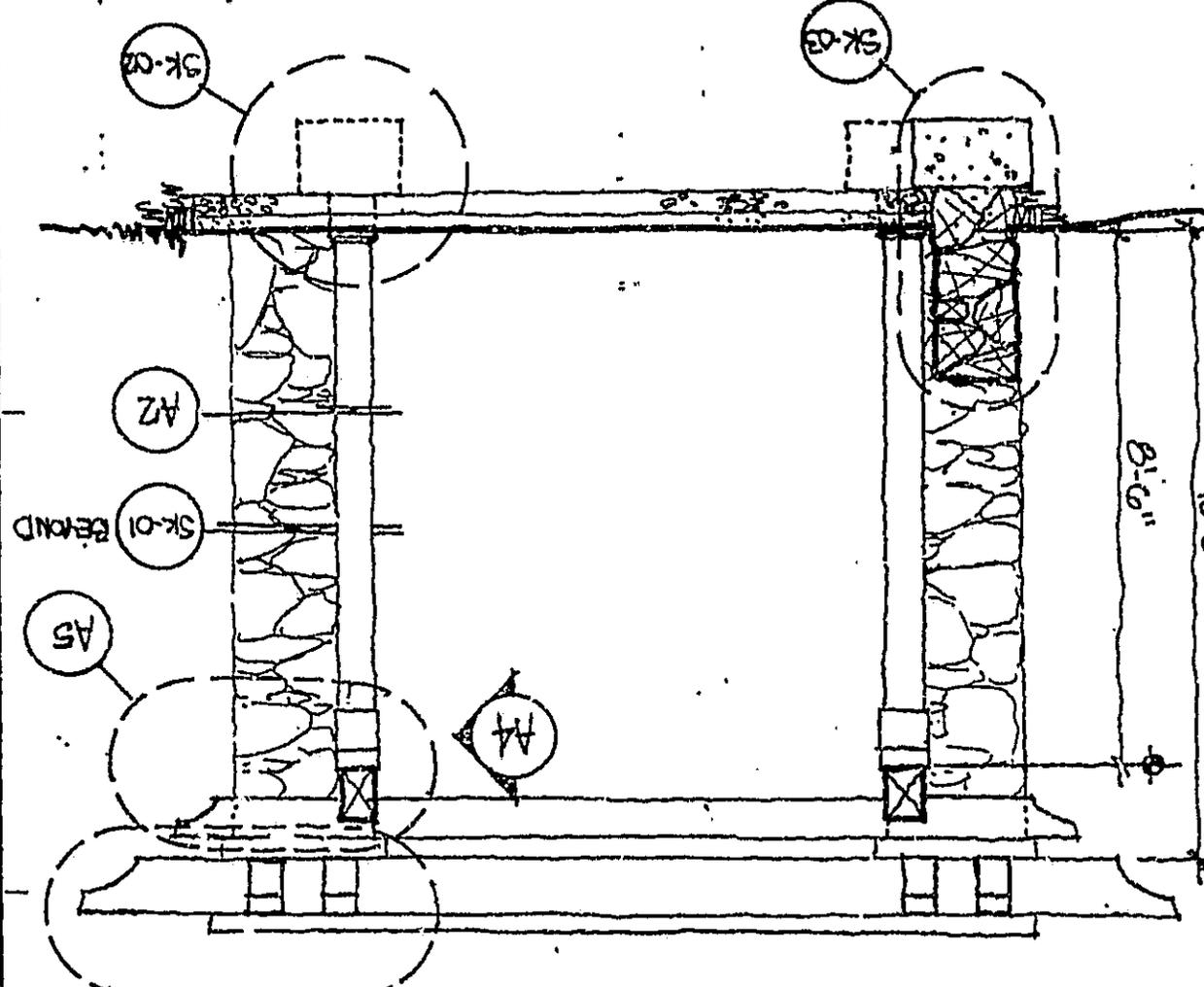
TRELLIS SECTION

3/8" = 1'-0"

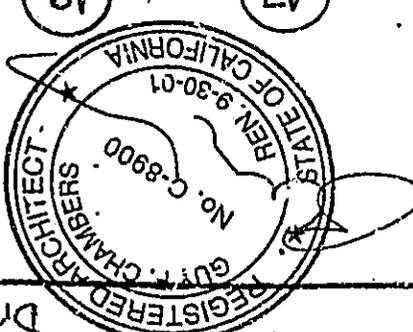
A-1

Date 1-17-01
Drawn By _____
Checked By _____
Project No. _____

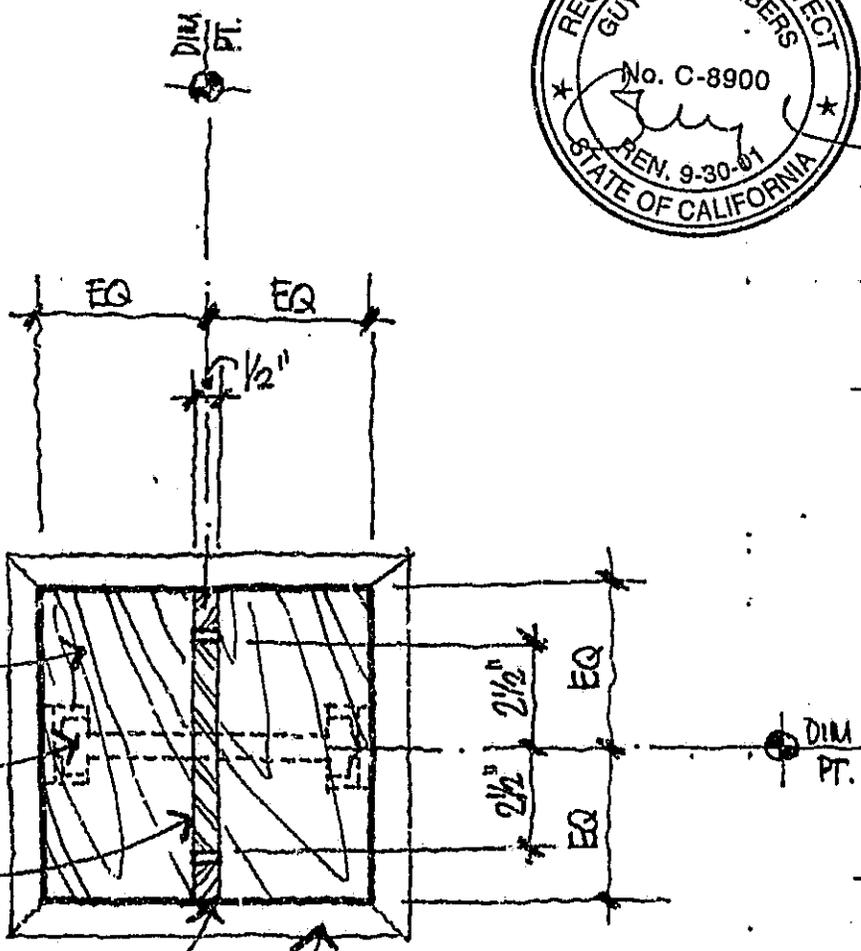
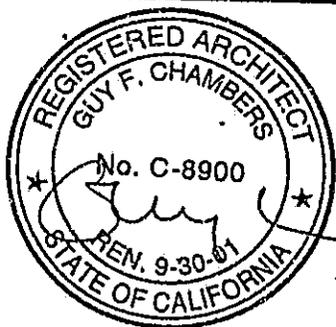
ALL WOOD TO BE PRESSURE TREATED - NO STAIN.



PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT
APPROVED
MUE
FEB 28 2001



Architectural Drawings



8x8 P.T. COLUMN.

3/4" L.B.S
COUNTERSINK & RUSSED
BELOW

1/2" x 5" x 2 L6"
GALV. STL PLATE
SEE FIG DETAIL FOR

WOOD PLUG TO
MATCH P.T. COLUMN
TYP.

CONC. PEDESTAL
BASE BELOW

★ APPROVED ★
FEB 28 2001.
PEP, IT AND RESOURCE
MANAGEMENT DEPARTMENT

BAR

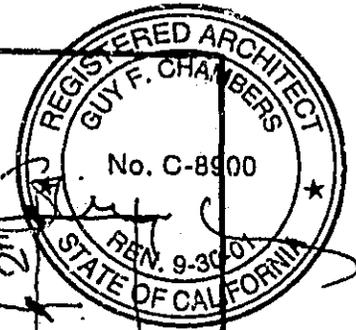
PLAN @ WOOD POST BASE

Date 1-17-01
Drawn By _____
Checked By _____
Project No _____

A-2

ARCHITECTURE PLANNING INTERIOR DESIGN
2640 RUSH STREET SAN FRANCISCO CA 94109
415.441.4775 415.354.2443 FAX
WWW.BARARCH.COM

3" = 1'-0"



3/4" ϕ M.B. w/
WASHERS THRU 7/8" ϕ
HOLE IN KNIFE PLATE.
COUNTERSINK &
PLUG EXPOSED ENDS

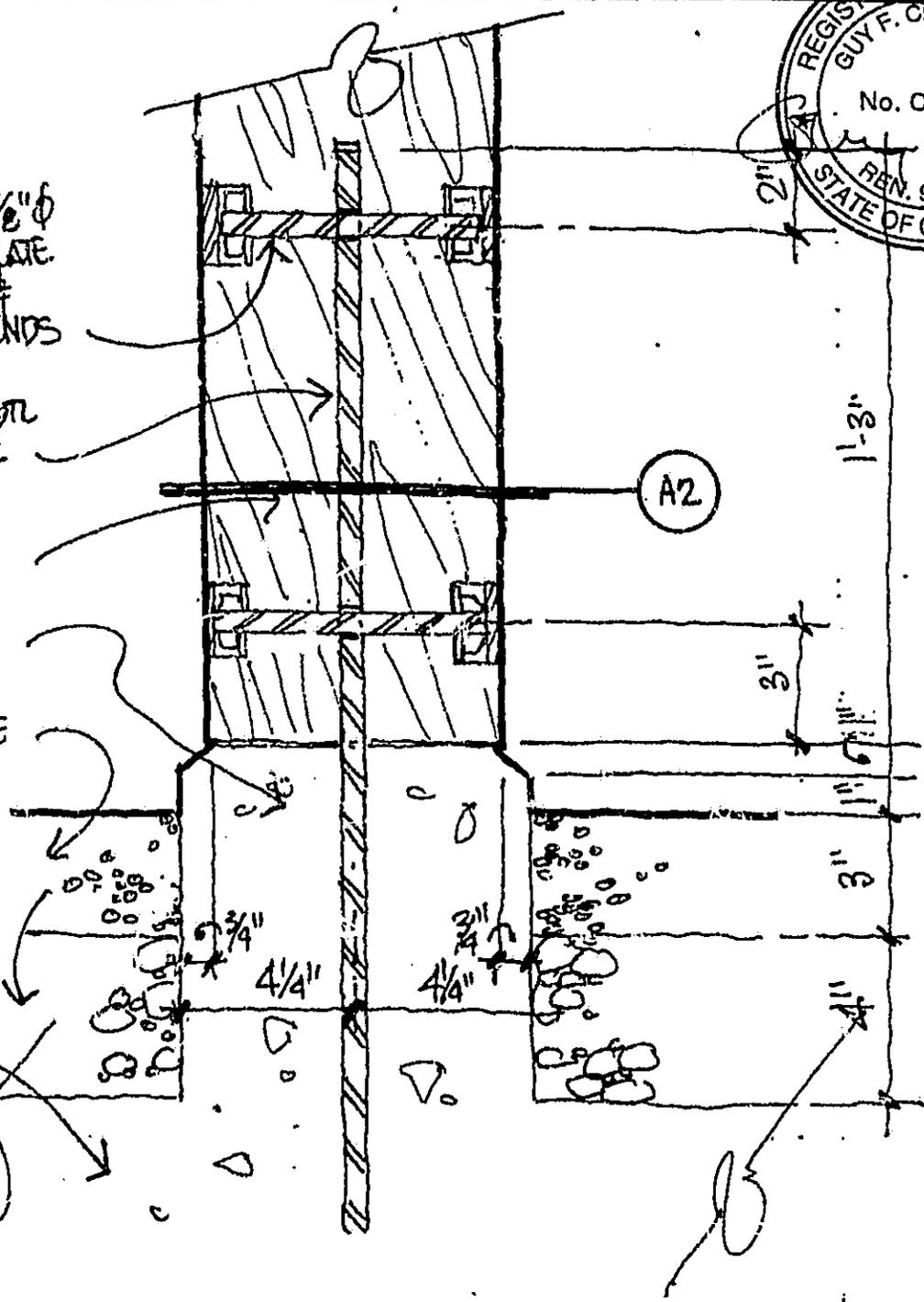
1/2" x 5" x 2'-6" STL
PLATE. SSD FOR
STRESS

8x8 PT. POST

CONC. PEDestal

DS. & SUBBASE

CONC. FTG
SSD



BAR

ARCHITECTURAL PLANNING INTERIOR DESIGN
1540 BUSH STREET SAN FRANCISCO CA 94109
415.441.4771 415.378.2363 FAX
WWW.BARARCH.COM

SECTION @ WOOD POST BASE

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FEB 28 2001

3" = 1'-0"

PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT

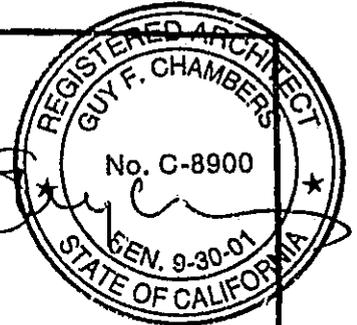
Date 1-17-01
Drawn By _____
Checked By _____
Project No _____

A-3

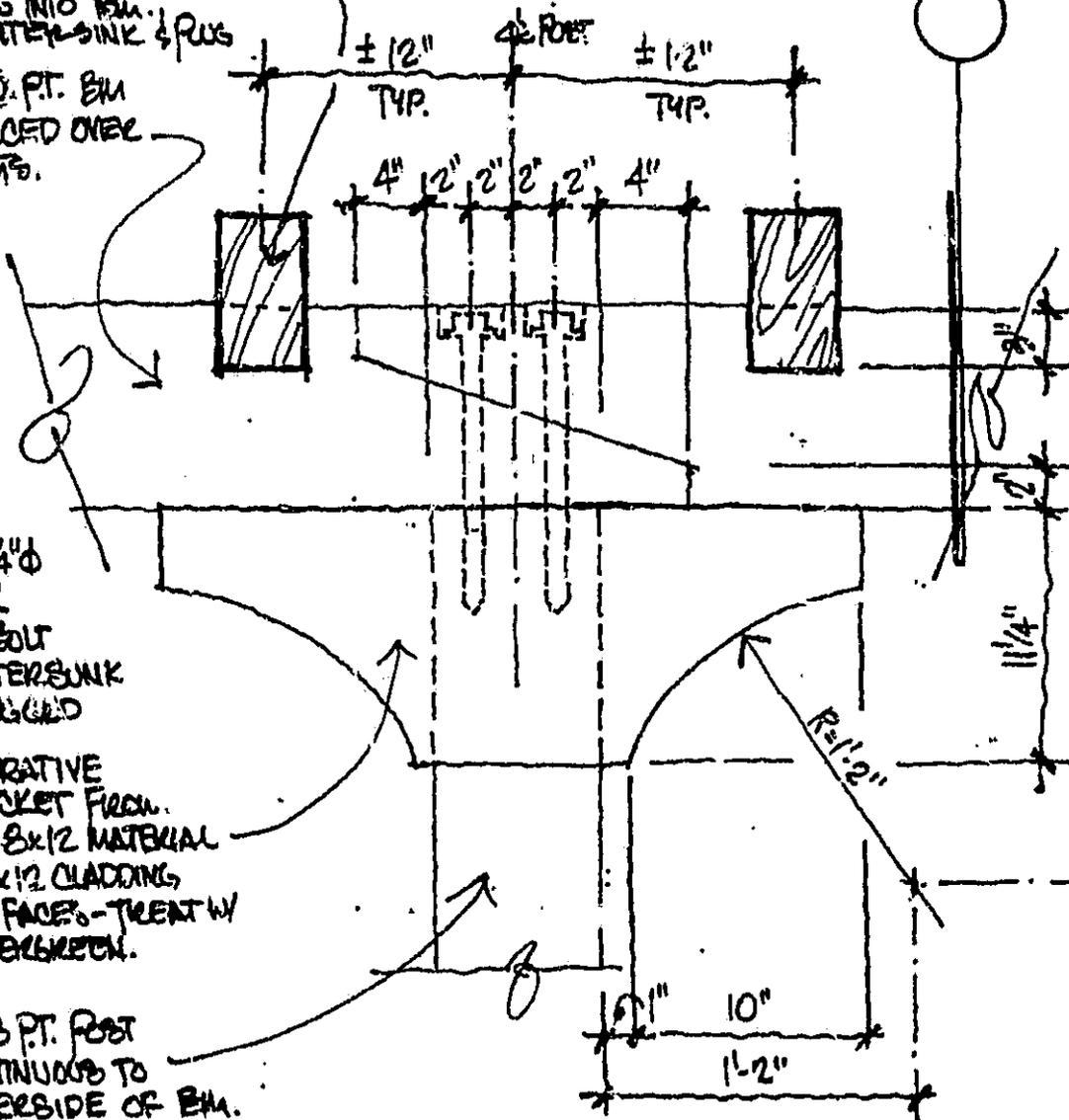
☆ APPROVED ☆

FEB 28 2001

PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT



4x8 FT.
TRELLIS MEMBER
@ ± 2'-0" O.C.
NOTCH OVER BR.
& LAG INTO BR.
COUNTERSINK & PULL
8x10 FT. BR.
SPliced OVER
POSTS.



(2) 3/4" Ø
x 14" L
LAG BOLT
COUNTERSINK
& PULL

DECORATIVE
BRACKET FROM
PT. 8x12 MATERIAL
w/ 1x1/2 CLADDING
BOTH FACES - TREAT w/
COFFERCRETE.

8x8 FT. POST
CONTINUOUS TO
UNDERSIDE OF BR.

BAR

TRELLIS/BRACKET @ WOOD POST

Date 1-17-01
Drawn By _____
Checked By _____
Project No _____

A-4

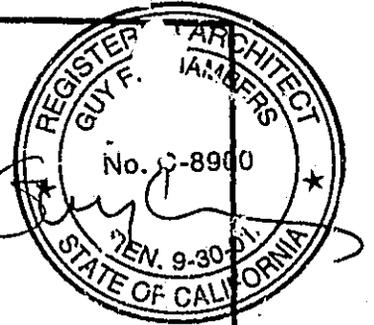
ARCHITECTURE PLANNING INTERIOR DESIGN
1848 BUSH STREET SAN FRANCISCO CA 94109
415.441.1777 415.398.2823 FAX
WWW.BARARCH.COM

1-1/2" = 1'-0"

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PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT



8x10 P.T. POST

4x8 P.T. TRELLIS MEMBER @ 24" O.C.

2" 8" 2'-0"



1 1/2"

R=11"

ALIGN W/
R.SIDE F.O.
STONE COL.
BEYOND.

DM.
PT.

1x CLADDING GLUED
& FINISH NAILED TO
POST & DECORATIVE BRACKET.
SAND 1x FLUSH TO F.O.
BRACKET.

8x8 P.T. POST

BAR

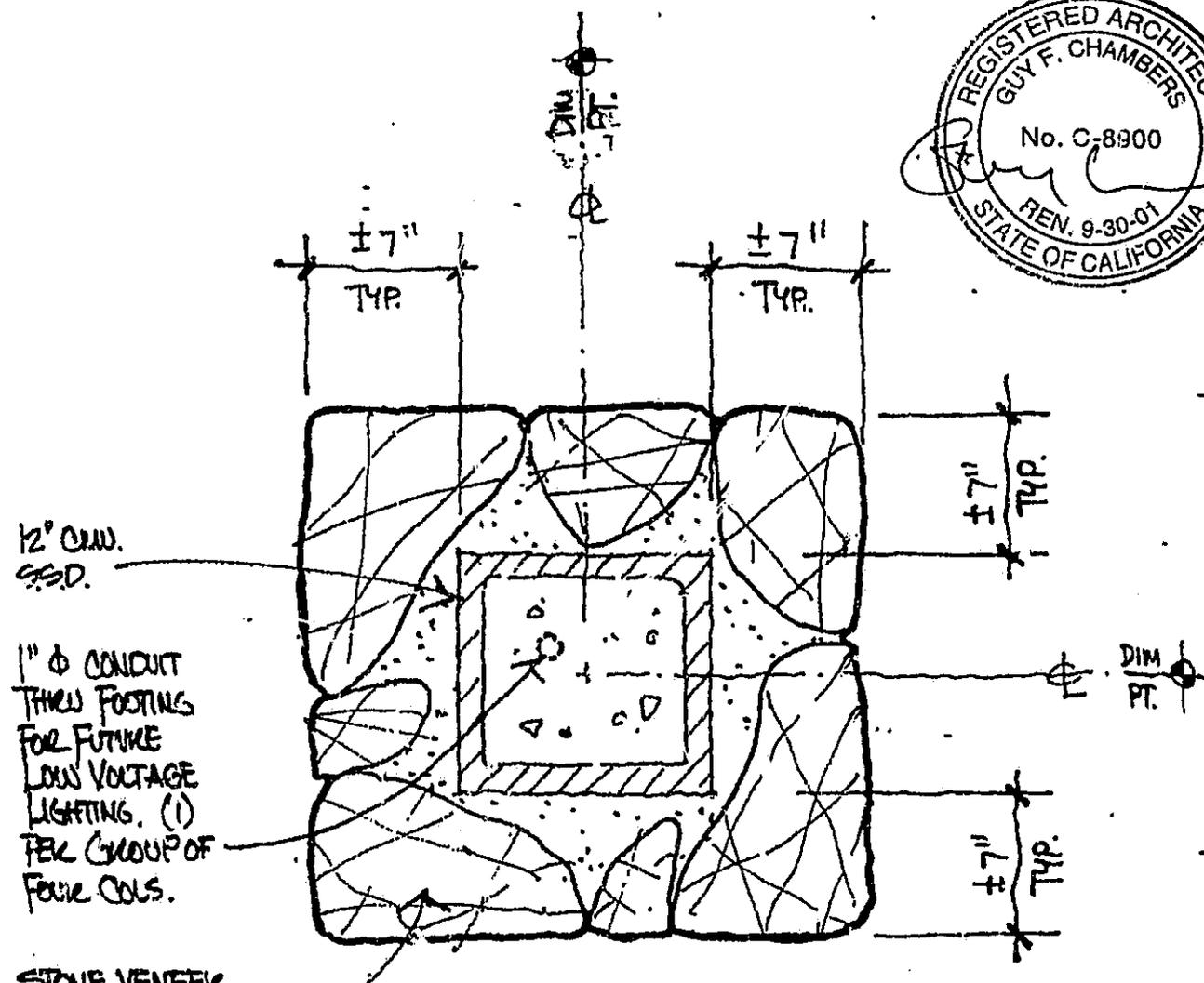
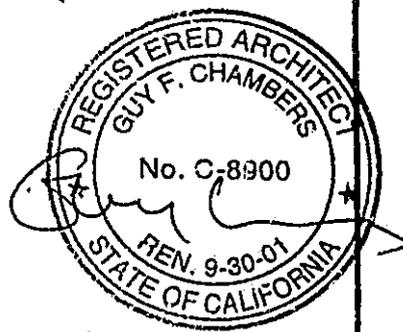
TRELLIS @ WOOD POST

Date 1-17-01
Drawn By _____
Checked By _____
Project No _____

A-5

ARCHITECTURAL PLANNING INTERIOR DESIGN
1540 BUSH STREET SAN FRANCISCO CA 94109
415-441-8771 415-536-2567 FAX
WWW.BARARCH.COM

1-1/2" = 1'-0"



12" CW. G.S.D.

1" Ø CONDUIT THREE FOOTINGS FOR FUTURE LOW VOLTAGE LIGHTING. (1) PER GROUP OF FOUR COLS.

STONE VENEER ANCHORED PER CODE

★ APPROVED ★

FEB 28 2001

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

B A R

ARCHITECTURE PLANNING INTERIOR DESIGN

1540 BUSH STREET SAN FRANCISCO CA 94109

415.441.8860 415.441.8860 FAX

WWW.BARARCHITECTS.COM

PLAN @ STONE COLUMN

1-1/2" = 1'-0"

Date 1-17-01

Drawn By _____

Checked By _____

Project No _____

A-6

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1500 15TH STREET SAN FRANCISCO CA 94103
(415) 441-8380 FAX (415) 441-8381
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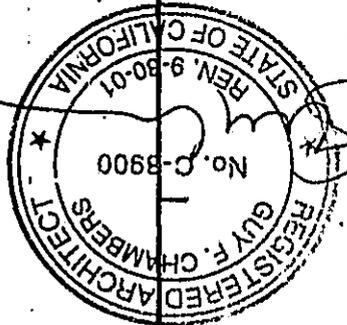
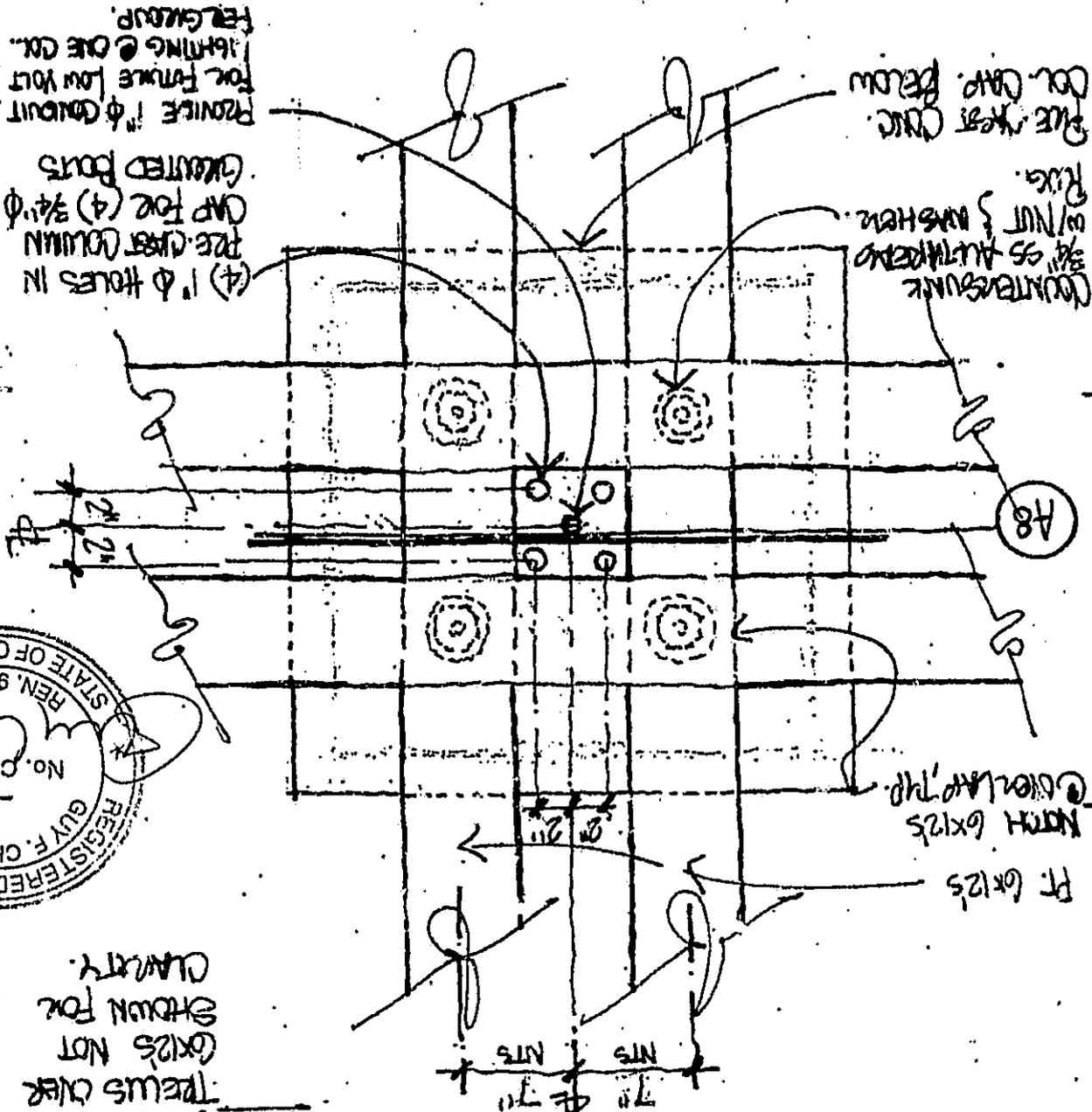
BAR

PLAN @ TRELLIS OVER STONE COLUMN

1-1/2" = 1'-0"

A-7

Date: 1-17-01
Drawn By: _____
Checked By: _____
Project No: _____



NOTE: DECORATIVE
TRELLIS OVER
COLUMNS NOT
SHOWN FOR
CLARITY.

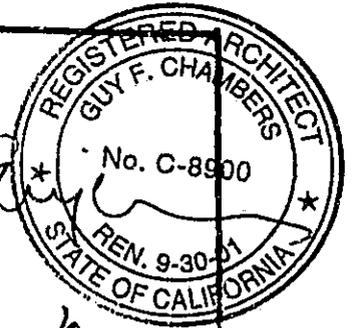
PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT
FEB 28 2001

★ APPROVED ★

★ APPROVED ★

FEB 28 2001

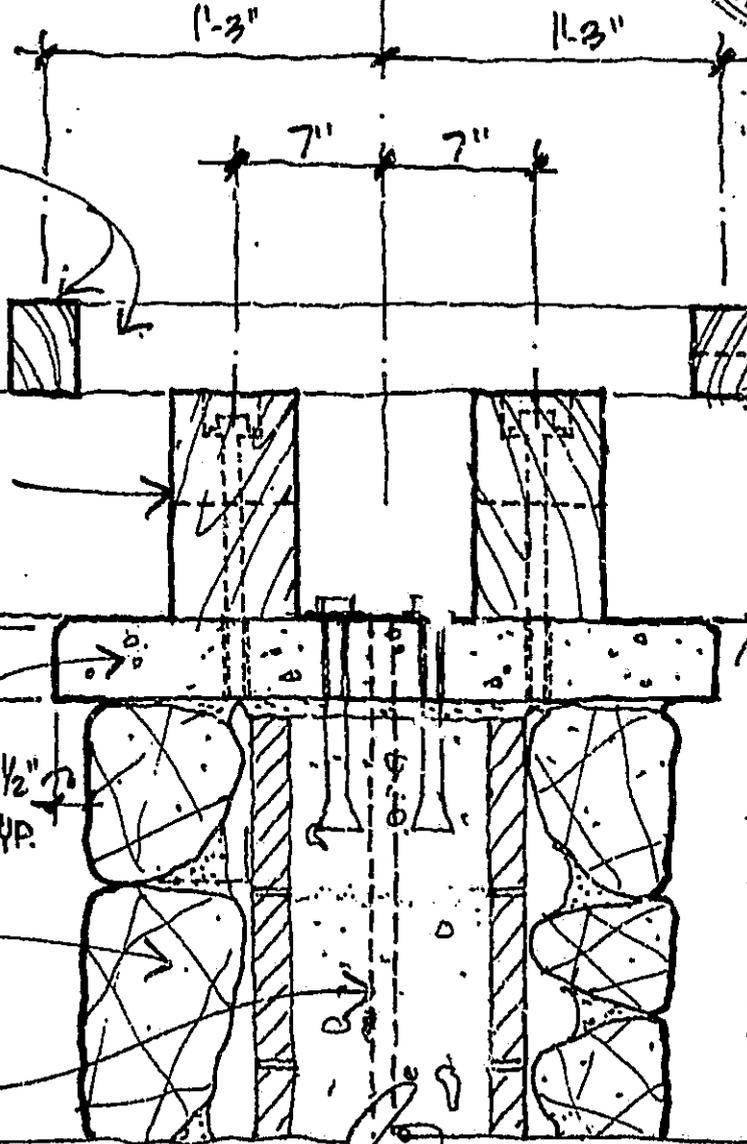
PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT



3x4 P.T. TRUSS
MEMBERS @ 2'-6" o.c.
EA. WAY. NOTCH MEMBERS
@ INTERSECTION. PERIMETER
MEMBER EA. SIDE TO
REMAIN UN-NOTCHED

COL.

6x12 P.T. BMS
NOTCHED @ INTERSECTIONS.
FASTEN TO PRE-CAST CAP
W/ SS. 3/4" Ø ALL-THREAD
ECCENTRIC INTO 1" Ø HOLE
IN CAP. COUNTERSINK
NUT & WASHER AND
PLUG HOLE



PRE-CAST CONC.
COLUMN CAP.

STONE VENEER
OVER 1/2" CMU.
S.S.D.

1" Ø CONDUIT @ (1)
COLUMN PER GROUP
OF FOUR FOR FUTURE
LOW VOLTAGE LIGHTS.

BAR

SECTION @ STONE COLUMN CAP

Date 1-17-01
Drawn By _____
Checked By _____
Project No _____

A-8

1-1/2" = 1'-0"

ARCHITECTURE PLANNING INTERIOR DESIGN
1440 WASH STREET, SAN FRANCISCO CA 94109
415.441.4771 415.634.2323 FAX
WWW.SARARCH.COM

3x4 FT. TRELLIS
MEMBERS @ 2'-6" O.C.
BOTH DIRECTIONS

COL.

3'-6"

1'-3"

1'-3"

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FEB 28 2001

PERMIT AND
MANAGEMENT

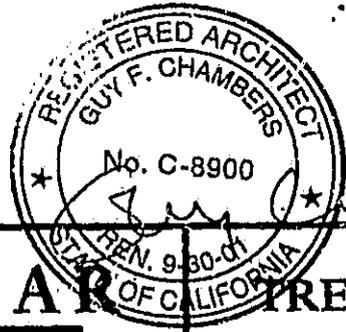
R=1'-2"

6x12 P.T. RMS
PRE-CAST CONC.
CAP.

WOOD POST & TRELLIS
IN FOREGROUND

STONE VENEER
COLUMN

A6



B A R TRELLIS @ STONE COLUMN

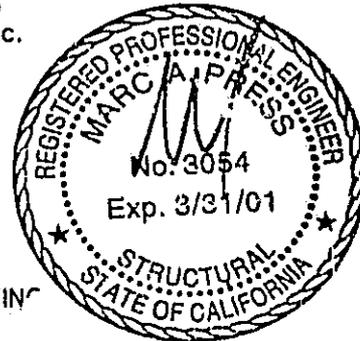
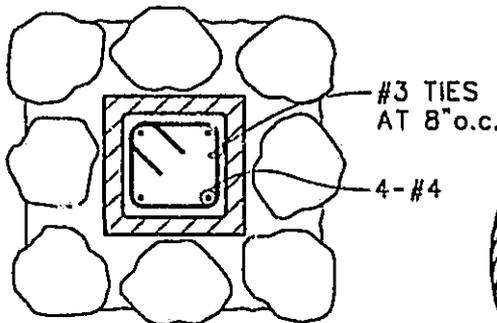
Date 1-17-01
 Drawn By _____
 Checked By _____
 Project No _____

A-9

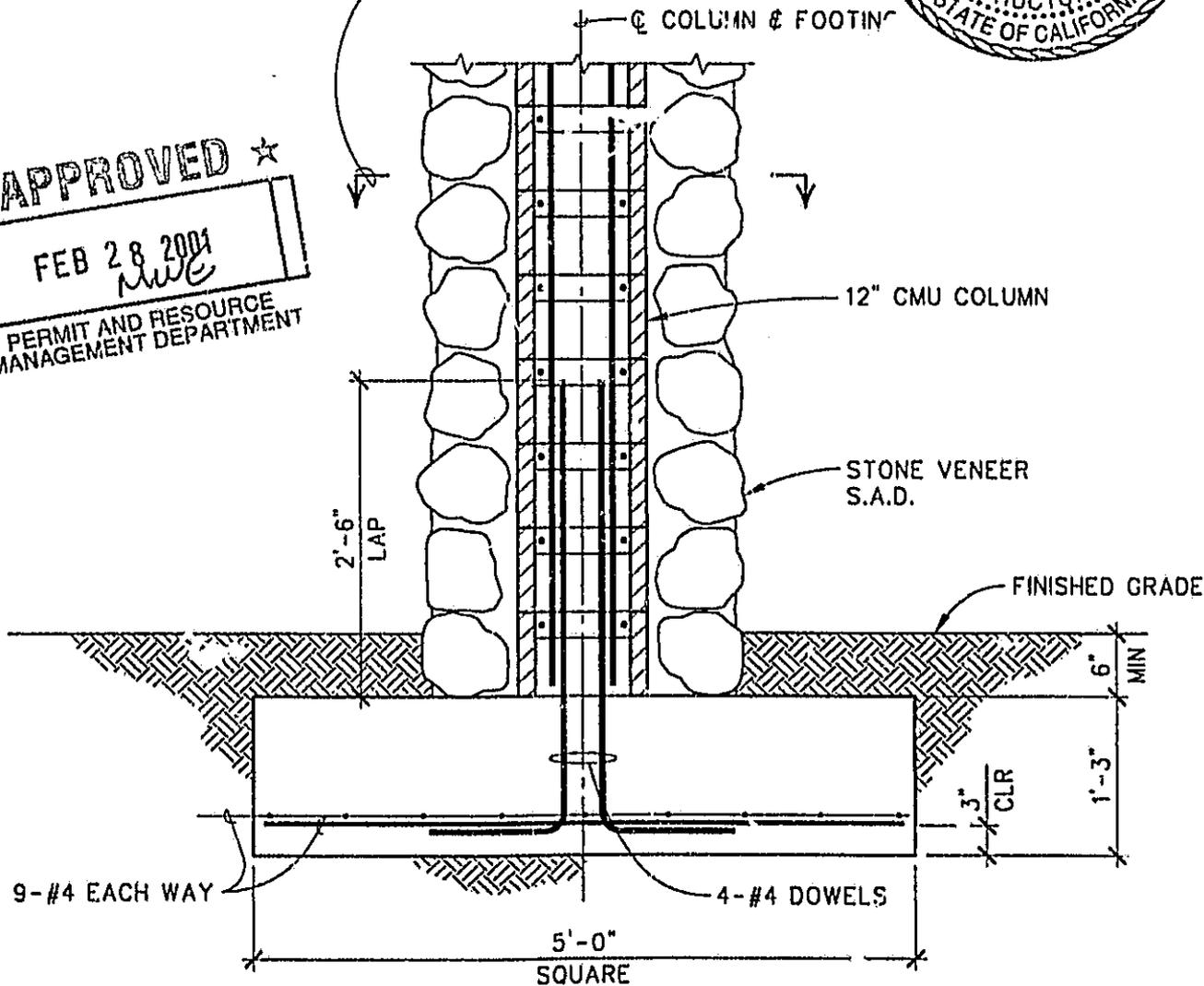
ARCHITECTURAL PLANNING LETS/DB DESIGN
 1540 BUSH STREET SAN FRANCISCO CA 94109
 415.441.4771 415.441.4772 FAX
 WWW.BANARCH.COM

1-1/2" = 1'-0"

Engineer



★ APPROVED ★
 FEB 28 2004
nwe
 PERMIT AND RESOURCE
 MANAGEMENT DEPARTMENT



Consulting Engineers

180 Pacific Avenue
San Francisco, California 94111
(415) 989-1004 Fax 989-1552

PROJECT NAME
STONESTREET
SONOMA COUNTY, CALIFORNIA

JOB NO.
99048

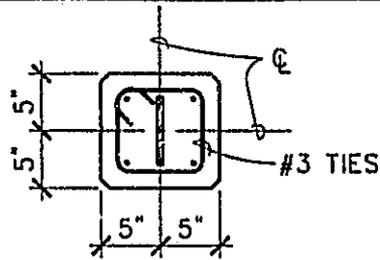
SHEET TITLE
STONE COLUMN FOOTING

SHEET NO.
SK-01

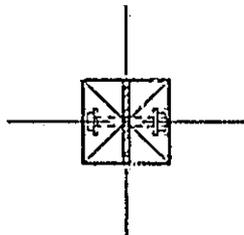
SIGNED

DATE

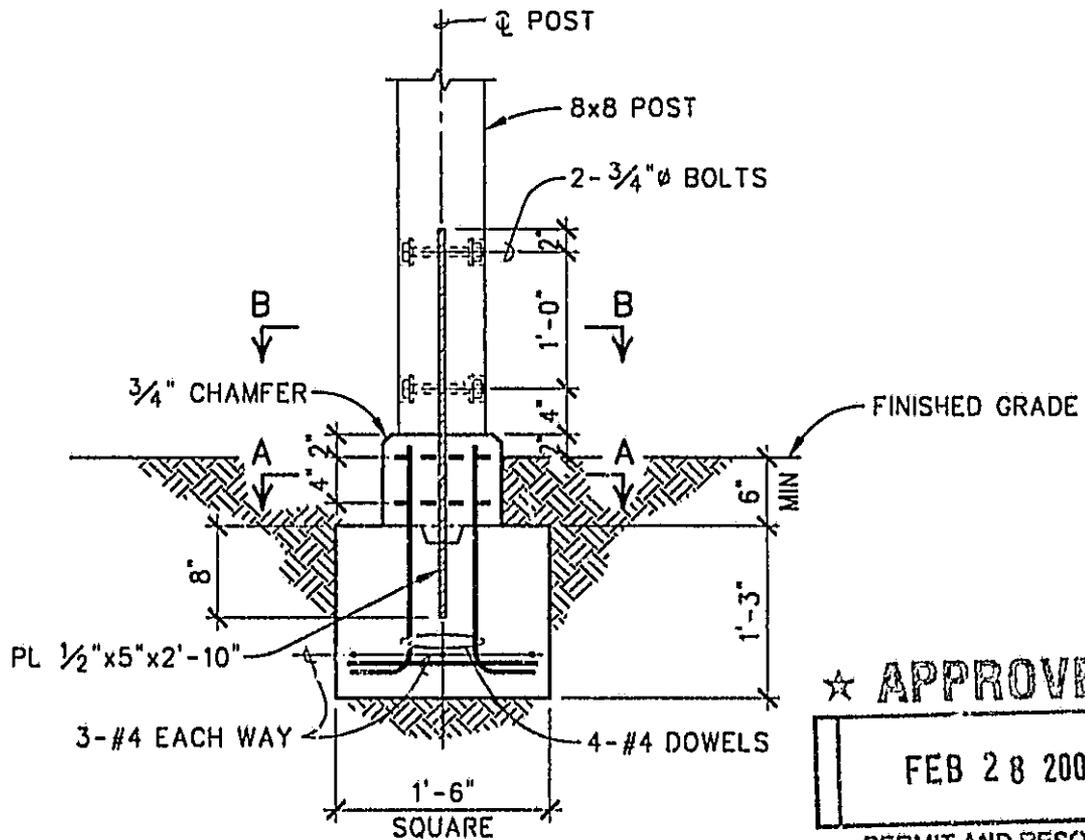
01-10-01



SECTION A-A



SECTION B-B



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FEB 28 2001

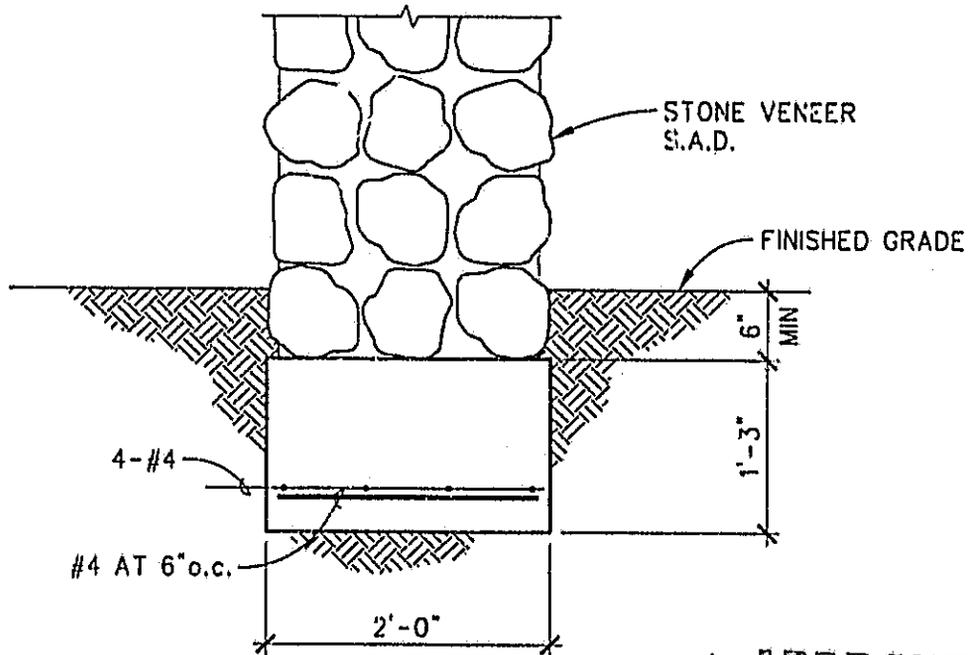
PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT



Consulting Engineers

180 Pacific Avenue
San Francisco, California 94111
(415) 989-1004 Fax 989-1552

PROJECT NAME STONESTREET SONOMA COUNTY, CALIFORNIA		JOB NO. 99048
SHEET TITLE 8x8 POST FOOTING		SHEET NO. SK-02
SIGNED	DATE 01-10-01	



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FEB 28 2001

PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT



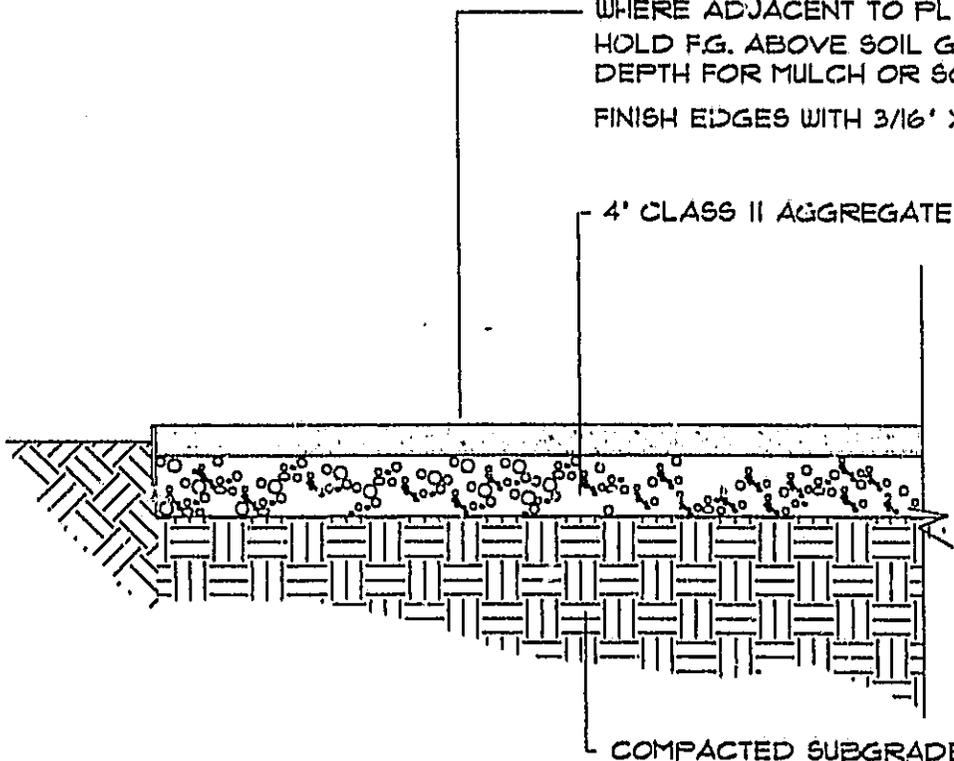
Consulting Engineers

180 Pacific Avenue
San Francisco, California 94111
(415) 989-1004 Fax 989-1552

PROJECT NAME STONESTREET SONOMA COUNTY, CALIFORNIA		JOB NO. 99048
SHEET TITLE STONE WALL FOOTING		SHEET NO. SK-03
SIGNED	DATE 01-10-01	

3' LAYER DECOMPOSED GRANITE W/ ROAD OYL
 (MATCH (E) PAVING FINISH)
 COMPACT TO BRING FLUSH W/ ADJACENT PAVING.
 WHERE ADJACENT TO PLANTING AREA,
 HOLD FG. ABOVE SOIL GRADE TO ALLOW
 DEPTH FOR MULCH OR SOD.
 FINISH EDGES WITH 3/16' X 4' STEEL HEADER

4' CLASS II AGGREGATE BASE



COMPACTED SUBGRADE

★ APPROVED

FEB 28 2001

PERMIT AND RESOURCE
 MANAGEMENT DEPARTMENT

STEPHANIE MCALLISTER
 Landscape Architecture

145 Keller Street
 Petaluma, CA 94952
 707 778-7693
 FAX 707 778-7647

DECOMPOSED GRANITE PAVING

1" = 1'-0"

DATE 01-17-01

L-1

FILE

* APPROVED *
BLD07-0474
FEB 28 2001
PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT

SET



Fire

JG mwe
2/27/01

COUNTY OF SONOMA
DEPARTMENT OF EMERGENCY SERVICES
FIRE SERVICES o EMERGENCY MANAGEMENT o HAZARDOUS MATERIALS

VERNON A. LOSH II, DIRECTOR

FOR THE
GEYSERVILLE FIRE PROTECTION DISTRICT

TO: Permit and Resource Management Department
(Building Department)

FROM: Jerry Faddis, Fire Plan Check Specialist II.
c/o PRMD 2550 Ventura Ave. Santa Rosa 95403
(707) 565-2410 or JFADDIS@SONOMA-COUNTY.ORG

DATE: Feb. 26, 2001

SUBJECT: BLD01- 0473 & 0474
Address: 7111 Hwy. 128
Applicant: Steve Von Raesfeld 421 Aviation Blvd. SR 95403
Scope: Rock Wall Entry /Rose Arbor

The Department of Emergency Services (DES) Plan check fee for this permit is \$140.00 and the field inspection fee is \$210.00. These fees will be collected when the permit is issued by the Sonoma County Permit and Resources Management Department.

This proposal is in reasonable compliance with the Uniform Fire Code and Fire Safe Standards as adopted by the County of Sonoma and approved with the following conditions:

Knox Key Access Box

Make application for and install a Fire Department Knox Box. The "Knox Box" provides emergency access to keys in the event of an emergency. Contact the local Fire Department for application information.

Inspections Prior to final approval, all Fire Safe Standards and/or Uniform Fire Code conditions must be verified by field inspection by a member of the Sonoma County Department of Emergency Services. There shall be inspections of the following portions of this project:

- 1) Fire Final (198)

Your job has been billed for 3 hour(s) of field inspection. If more time is needed to inspect this project, you will be billed at a rate of \$ 70.00/hr., one-hour minimum. Automated inspection requests shall be made at least 72 hours in advance by calling the Permit and Resource Management Department at (707) 565-3551.

cc: file
applicant



70 mwg
2/27/01
E

**COUNTY OF SONOMA
DEPARTMENT OF EMERGENCY SERVICES**

FIRE SERVICES o EMERGENCY MANAGEMENT o HAZARDOUS MATERIALS

VERNON A. LOSH II, DIRECTOR

**FOR THE
GENESVILLE FIRE PROTECTION DISTRICT**

TO: Permit and Resource Management Department
(Building Department)

FROM: Jerry Faddis, Fire Plan Check Specialist II.
c/o PRMD 2550 Ventura Ave. Santa Rosa 95403
(707) 565-2410 or JFADDIS@SONOMA-COUNTY.ORG

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cc: file
applicant

STRUCTURAL CALCULATIONS

Site Wall Design at
STONESTREET WINERY

SONOMA, CALIFORNIA

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
Design Loads	1
6' High site wall design	3
4' High site wall design	5

Prepared for:

Kendall-Jackson Winery, LTD.

February 23, 2001



DESIGN LATERAL FORCES

REFERENCE : UBC '97

STRUCTURAL DWGS - S1.1

$$F_p = \frac{a_p C_a I_p}{R_p} \left(1 + 3 \frac{h_x}{h_r} \right) W_p \quad (\text{Section 1632.2})$$

$$F_{p \max} = 4 C_a I_p W_p$$

$$F_{p \min} = 0.7 C_a I_p W_p$$

$$a_p = 1.0 \quad (\text{Table 16-0})$$

$$R_p = 3.0 \quad (\text{Table 16-0})$$

$$I_p = 1.0 \quad (\text{Table 16-K})$$

$$C_a = 0.44 (N_a) = 0.44 (1.3) = 0.572 \quad (\text{Table 16-0})$$

$$\therefore F_p = \frac{(1.0)(0.572)(1.0)}{3.0} \left(1 + 3 \left(\frac{6'}{6'} \right) \right) W_p$$

$$= 0.76 W_p$$

$$F_{p \max} = 4 (0.572)(1.0) W_p = 2.29 W_p$$

$$F_{p \min} = 0.7 (0.572)(1.0) W_p = 0.4 W_p$$

The average coefficient over the entire height of wall may be taken as

$$\frac{(0.76 + 0.4)}{2} W_p = 0.58 W_p$$

Average width of wall over ht is $\frac{1.5 + 2'}{2} = 1.75'$

$$\therefore W_p = 1.75' \times 150 \text{ pcf} = 263 \text{ psf}$$

$$\text{Allowable } F_p = \frac{0.58}{1.4} \times 263 = 109 \text{ psf}$$

kpff Consulting Engineers

180 Pacific Avenue
San Francisco, California 94111
(415) 989-1004 FAX (415) 989-1552

project **STONE STREET**

by **RMF**

sheet no.

2/9

location

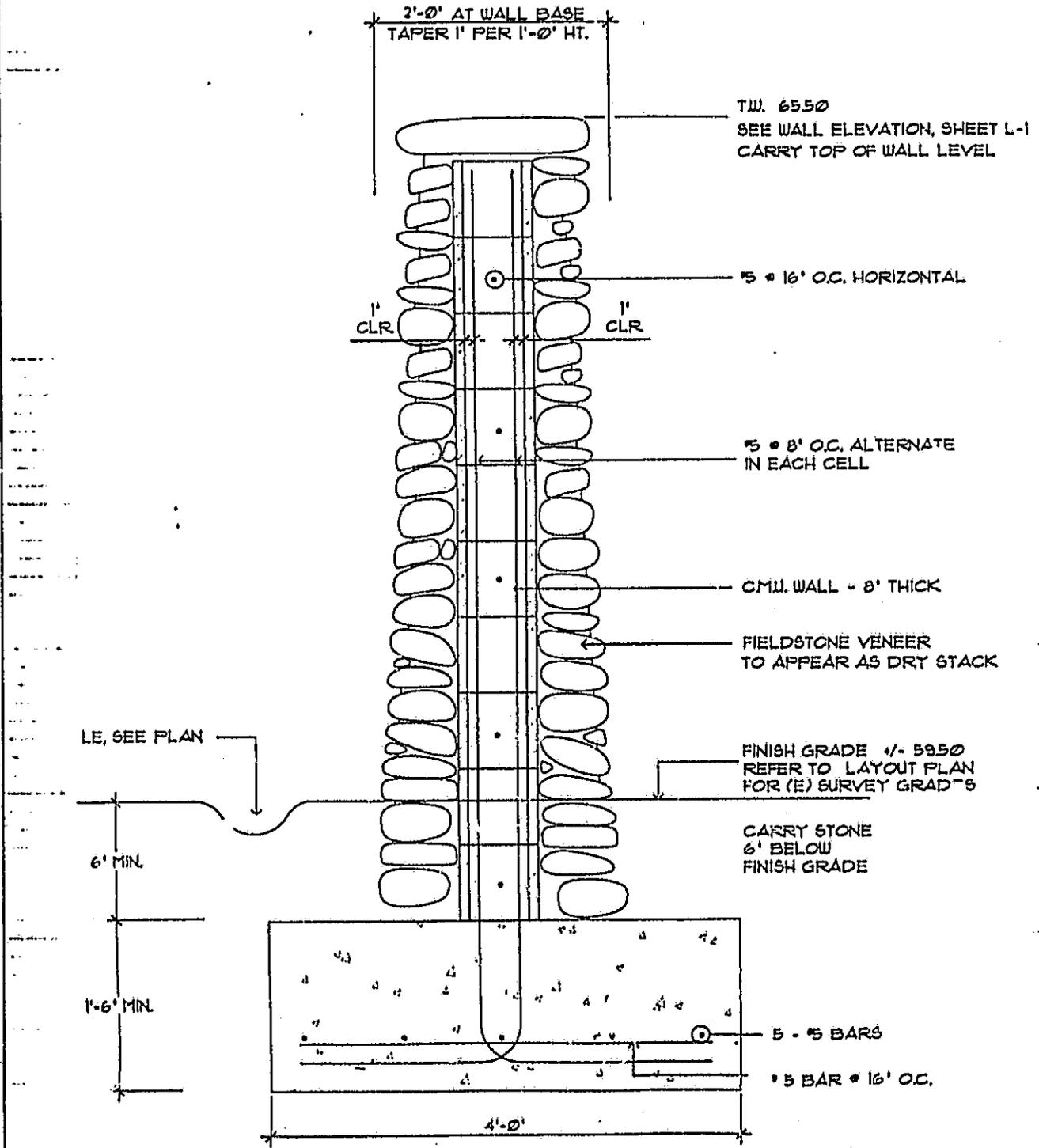
date **2/23/01**

client

job no.

99048.08

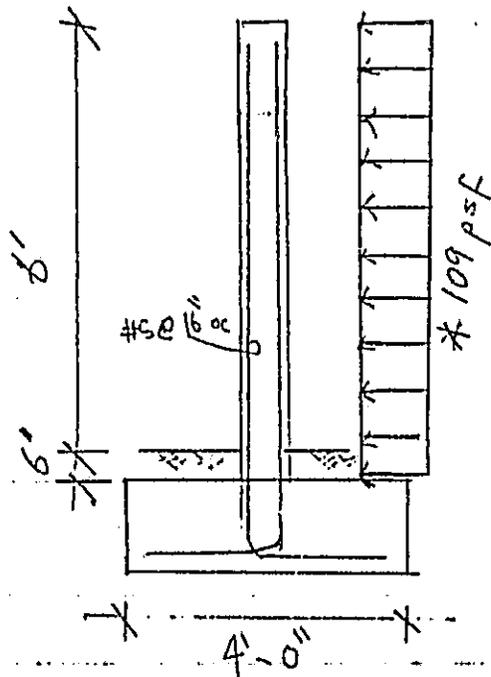
REFERENCE: DETAIL 2/L-2



2

STONE WALL SECTION - 6 FOOT HEIGHT
1" = 1'-0"

DESIGN 6' HIGH STONEWALL



* The force F_p is conservatively applied as a uniformly distributed load

$$M \text{ (cantilever)} = \frac{wL^2}{2} = \frac{109 \text{ psf} (6.5')^2}{2} = 2303 \frac{\text{ft} \cdot \text{ft}}{\text{ft}}$$

Calculate capacity of wall

$$d = 7.625' - 8\frac{1}{2} = 5.125'$$

$$\#5 @ 16" \text{ oc} \quad A_s = 0.23 \frac{\text{in}^2}{\text{ft}}$$

$$\rho = \frac{A_s}{bd} = \frac{0.23}{12(5.125)} = 0.0037$$

$$k = \sqrt{2\rho n + (\rho n)^2} - \rho n = \sqrt{2(0.0037)(25.8) + (0.0037 \times 25.8)^2} - (25.8 \times 0.0037)$$

$$= \sqrt{0.193 + 0.0091} - 0.095$$

$$= 0.35$$

$$j = 1 - k/3 = 0.88$$

project	STONE STREET	by	RMF	sheet no.	4/9
location		date	2/23/01	job no.	99048.08
client					

DESIGN 6' HIGH WALL (cont.)

$$f_s = \frac{M}{A_s j d} = \frac{2303 \times 12}{(0.23)(0.88)(5.125)} = 26,642 \text{ psi}$$

$$< \frac{4}{3}(24,000 \text{ psi}) = 32,000 \text{ psi} \therefore \text{OK}$$

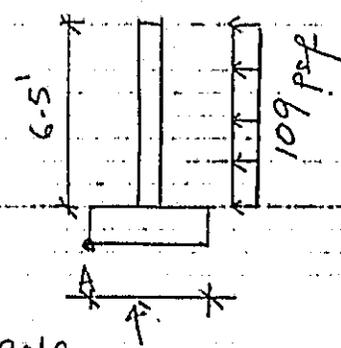
$$f_b = \frac{2(2303) \times 12}{(0.88)(0.36)(12)(5.125)^2} = 503 \text{ psi}$$

$$< \frac{4}{3} \left(\frac{1500}{3} \right) = 557 \text{ psi} \therefore \text{OK}$$

8" CMU w/ #5 @ 16" oc is OK

Check Global Stability

$$H_{OT} = 2303 \frac{\#-ft}{ft}$$



$$W_{Wall} = 263 \times 6.5 = 1710 \text{ plf}$$

$$W_{Fry} = 4' \times 15' \times 150 \text{ pcf} = 900 \text{ plf}$$

$$M_{R_{ot}} = (1710 \text{ plf} + 900 \text{ plf}) \frac{4'}{2} = 5220 \frac{\#-ft}{ft}$$

$$\frac{0.9 M_e}{H_{OT}} = 2.0 > 1.5 \therefore \text{OK}$$

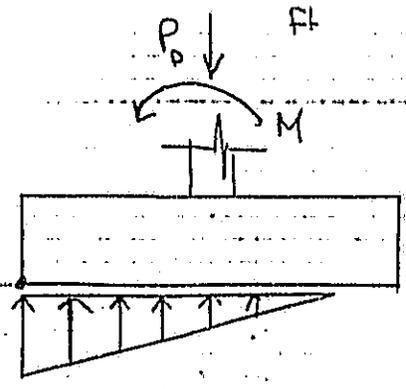
Check Soil Pressure

$$P_D = 1710 \text{ plf} + 900 \text{ plf} = 2610 \text{ plf}$$

$$M = M_R - H_{OT} = 5220 - 2303 = 2917 \frac{\#-ft}{ft}$$

$$\frac{M}{P} = 1.12 \quad e = \frac{4'}{2} - 1.12 = 0.88$$

$$\frac{e}{b} = 0.67$$



project STONESTREET	by RMP	sheet no. 5/9
location	date 2/23/01	job no. 99048.08
client		

DESIGN 6' HIGH WALL (cont)

- Check Soil Pressure

Since $e > \frac{b}{6}$ $P_{max} = \frac{2P}{3ab}$

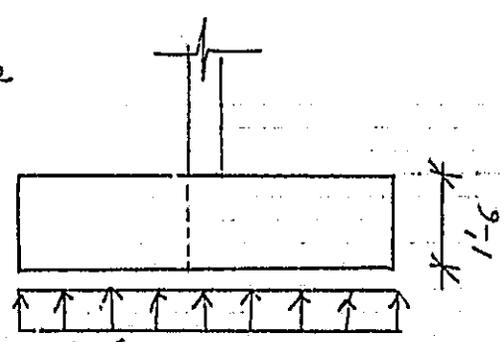
$\therefore P_{max} = \frac{2P}{3ab} = \frac{2(26101\text{lb})}{3(1.12' \times 1')} = 1553 \frac{\text{psf}}{\text{ft}}$

$P_{max} = 1553 \text{ psf} < 3500 \text{ psf} \therefore \text{OK}$

Design ftg. Rebar.

Design for max soil pressure
- conservative.

$P_{max} = 1.4(3500) = 4900 \text{ psf}$
for ultimate



Moment at Dashed line = $\frac{4.9 \text{ psf}}{2} (2' - \frac{4''}{12})^2 = 6.81 \frac{\text{k-ft}}{\text{ft}}$

$d = 18'' - 4'' = 14''$

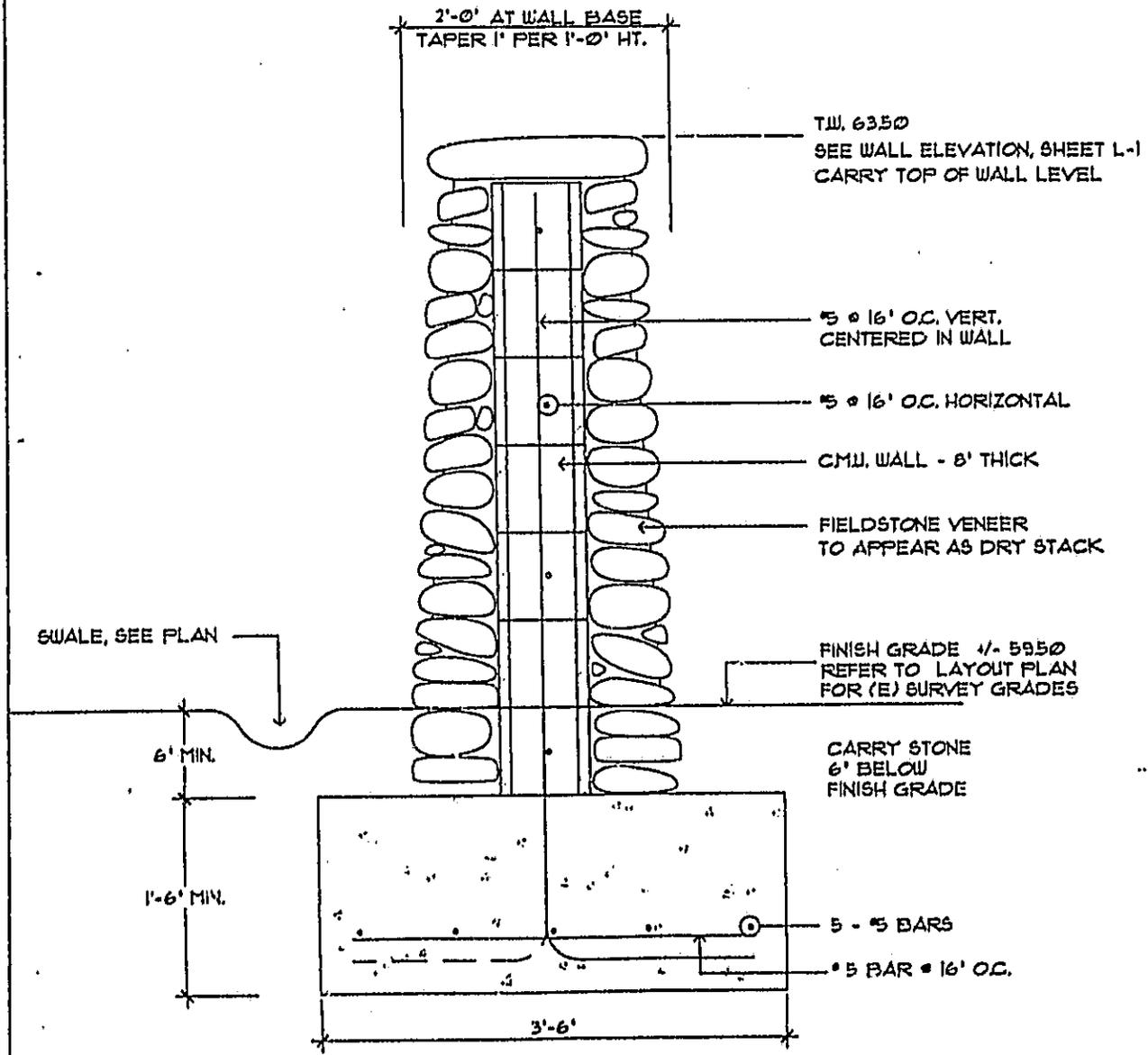
$A_s \text{ Req'd} = \frac{M_u}{\phi f_y d} = \frac{6.81 \times 12}{0.9(60)(0.9)(14'')} = 0.12 \frac{\text{in}^2}{\text{ft}}$

$A_{s \text{ min trans}} = 0.0018 bh = 0.0018 (12'')(18'') = 0.39 \frac{\text{in}^2}{\text{ft}}$
#5 @ 8" oc - $A_s = 0.47 > 0.39 \frac{\text{in}^2}{\text{ft}}$

$A_{s \text{ min long}} = 0.0018 bh = 0.0018 (4' \times 12'')(18'') = 1.55 \text{ in}^2$

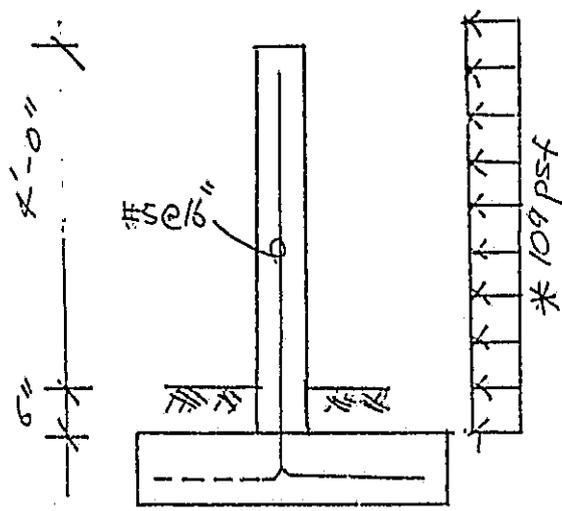
Use #5 @ 8" oc trans, & #5 long. 5-#5 bars

REFERENCE: DETAIL **1/L-2**



STONE WALL SECTION - 4 FOOT HEIGHT
 1" = 1'-0"

DESIGN A 4' HIGH STONEWALL



* The \sim ro fp is conservatively applied as a uniformly distributed load

$$M(\text{cont.lev.}) = \frac{wl^2}{2} = \frac{109 \text{ pcf} (4.5')^2}{2} = 1104 \frac{\#-ft}{ft}$$

Calculate capacity of wall

$$d = \frac{7.625''}{2} = 3.81''$$

$$\#5 @ 16'' \text{ OC} \rightarrow A_s = 0.23 \text{ in}^2/\text{ft}$$

$$\rho = \frac{A_s}{bd} = \frac{0.23 \text{ in}^2/\text{ft}}{12''(3.81'')} = 0.00503$$

$$k = \sqrt{2\rho n + (\rho n)^2} - \rho n$$

$$= \sqrt{2(0.00503)(25.8) + (0.00503(25.8))^2} - (0.00503)(25.8)$$

$$= \sqrt{0.26 + 0.0168} - 0.13$$

$$= 0.396$$

$$j = 1 - \frac{k}{3} = 0.87$$

project	STONE STREET	by	RMF	sheet no.	8/9
location		date	2/23/01	fig no.	
client					99048.08

DESIGN 4' HIGH STONEWALL (cont.)

$$f_s = \frac{M}{k_s d} = \frac{1104 \#-ft / ft \times 12}{(0.23)(0.87)(3.81)} = 17,377 \frac{\text{psi}}{\text{psi}} < \frac{4}{3}(24,000 \text{ psi}) = 32,000 \text{ psi} \therefore \text{OK}$$

$$f_{vm} = \frac{2M}{k b d^2} = \frac{2(1104)12}{0.87(0.396)(12)(3.81)^2} = 442 \text{ psi} < \frac{4}{3} \left(\frac{1500 \text{ psi}}{3} \right) = 667 \text{ psi} \therefore \text{OK}$$

8" CMU wall w/ #5 @ 16" oc OK

- Check Global Stability

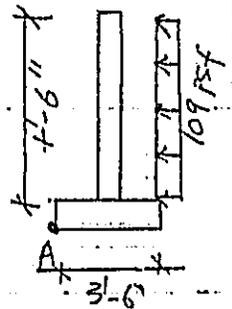
$$M_{ot} = 1104 \frac{\#-ft}{ft}$$

$$W_{wall} = 263 \text{ psf} \times 4.5' = 1184 \text{ p/ft}$$

$$W_{ftg} = 3.5' \times 1.5' \times 150 \text{ psf} = 788 \text{ p/ft}$$

$$M_R @ t = \frac{(1184 \text{ p/ft} + 788 \text{ p/ft}) \times 3.5'}{2} = 3450 \frac{\#-ft}{ft}$$

$$\frac{0.9 M_R}{M_{ot}} = 2.8 > 1.5 \therefore \text{OK for stability}$$



- Check Soil Pressure

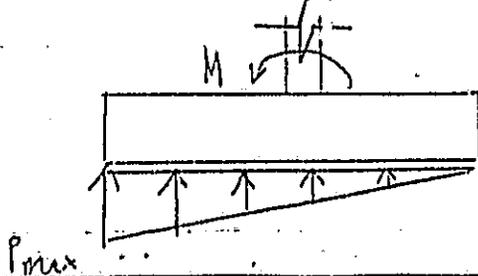
$$P_D = 1184 \text{ p/ft} + 788 \text{ p/ft} = 1972 \text{ p/ft}$$

$$M = M_R - M_{ot} = 3450 - 1104 = 2346 \frac{\#-ft}{ft}$$

$$\frac{M}{P} = \frac{2346}{1972} = 1.2'$$

$$e = \frac{3.5'}{2} - 1.2' = 0.55' \text{ ft}$$

$$\frac{b}{6} = \frac{3.5'}{6} = 0.58'$$



DESIGN 4'-0" HIGH STONEWALL (cont.)

since $e < \frac{b}{6}$ $P_{max} = \frac{P}{A} + \frac{M}{S}$

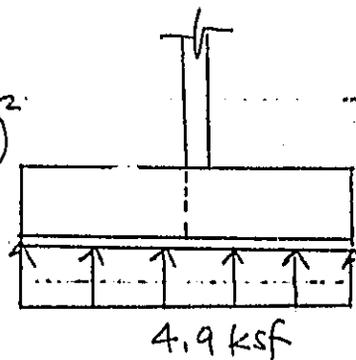
$$\begin{aligned} \therefore P_{max} &= \frac{1972 \text{ plf}}{3.5' \times 1'} + \frac{2346 \text{ #-ft/ft}}{\frac{1(3.5)^2}{6}} \\ &= 563 \text{ plf} + 1150 \text{ plf} \\ &= 1712 \text{ plf} < 3500 \text{ psf} \quad \therefore \text{OK} \end{aligned}$$

- Design ftg. Rebar

Design for max soil pressure - conservative

$P_{max} = 1.4(3500 \text{ psf}) = 4900 \text{ psf}$
 ↑ for ultimate

Moment @ dashed line = $\frac{4.9 \text{ ksf}}{2} \left(\frac{3.5}{2} - \frac{4''}{12} \right)^2$
 $= 4.92 \frac{\text{k-ft}}{\text{ft}}$



$d = 18'' - 4'' = 14''$

$A_s \text{ reqd} = \frac{M_u}{\phi f_y j d} = \frac{4.92 \times 12}{0.9(60)(0.9)(14)} = 0.09 \frac{\text{in}^2}{\text{ft}}$

$A_s \text{ min trans} = 0.0018 b h = 0.0018 (12)(12) = 0.39 \frac{\text{in}^2}{\text{ft}}$
 $\#5 @ 8'' \text{ oc} - A_s = 0.46 \frac{\text{in}^2}{\text{ft}}$

$A_s \text{ min long.} = 0.0018 b h = 0.0018 (3.5)(12)(12)$
 $= 1.36 \text{ in}^2$
 5-#5 bars