

B

Type

Pians

B-154183

Permit Number

7520

Street Number

Bar Caglia Rd.

Street Name

GRA

Community Code

130-261-008

APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 527-1900 FAX (707) 527-1103

Please Print
Your Name:

FRANK GLAZIER

Date
Applied:

5-25-99

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address:	7520 BARCAGLIA Rd.	City:	Sebastopol	ZIP:	95422
Cross-Street:	GRAVENSTONE Hwy	APN:	130-261-008	Project Phone #:	()
Directions:		Subd. Name:		Project Fax #:	()
Describe Project:	CONCRETE WATER STOR. TANK	Unit #:		Lot #:	
		Living Area:		Contract Price:	
		Garage:			
		Decks:	1050 sq ft		4,950.

OWNER NAME AND ADDRESS			APPLICANT NAME AND ADDRESS		
Name:	JOE BARCAGLIA		Name:		
Mailing Address:	7520 BARCAGLIA Rd.		Mailing Address:		
City:	State:	ZIP:	City:	State:	ZIP:
Sebastopol	CA	95422			
Day Ph: ()	Fax: ()		Day Ph: ()	Fax: ()	

CONTRACTOR INFORMATION			OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)		
Company Name:	GLAZIER & GLAZIER INC		Name:	BURTON ENGINEERS	
Address:	50 FALLON Rd.		Address:	24 WESTERN AVE.	
City:	State:	ZIP:	City:	State:	ZIP:
Petaluma	CA	94952	Petaluma	CA	94952
Day Ph: ()	Fax: ()		Day Ph: ()	Fax: ()	
763-1027	SAME				

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: STATE COMP INS. FUND
Policy No: 713 2986 98

(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: 10-1-99 Applicant: Frank Glazier

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

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 1 (commencing with Section 7000) of Division 3 of the Business and Professions Code) and 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: _____

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 Lic. No: 373850

Exp. Date: 5/31/99 Contractor: Frank Glazier

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.

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

PERMITTEE SIGNATURE: Frank Glazier
ADDRESS: 50 FALLON Rd. Petaluma 94952
CITY: Petaluma ZIP: 94952

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

Permit # B-154183 Area 4

Permit Coordinator

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: VAB6-2000 File No: _____ Acres: 57.000

Existing Use/Structures: Vineyard

Proposed Use/Structures: water tank

Zoning Min. Yard Requirements: Front 155' Left 70' 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: _____ By: K. P. Colby

Date: 5/25/99

Conditions: *reduction to 35' from 67' based on vineyard location screening from road structure

Sewer Connection: ☐ Available ☐ Fees Paid

Approved by: _____ Date: _____

Road Encroachment: ☐ Fees Paid

Approved by: _____ Date: _____

Septic System Permit/Clearance # _____

Approved by: _____ Date: _____

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

Site Review: N/A TO VIOLATION B

By: _____ Date: _____

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

Required Reports: ☐ Geology ☐ Soils ☐ Compaction

Code Enforcement Violation: ☒ Yes ☐ No VER99-0053

Work Authorized: _____

Tank

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

☒ Signs Approved

☐ No Plans Subject to Field Inspection

Planchet Cleared By: Wm Kelly 5/25/99 Date: 5/25/99

Permit Cleared By: Ch 5/25/99 Date: 5/25/99

Type of Construction	Occupancy	No. of Stories	No. of Bedrooms
LN	U-1		

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

Final Date: 10/08/02 Inspector: DP

Machine Space for Permit Fee

#	012605 05/25/99
#	0154183
SIERRA	\$207.90
**TTL	\$207.90
CHECK	\$207.90
CHNG	\$0.00

JOB ADDRESS: 7520 BARCAGLIA Rd SEBASTOPOL REFERENCE PERMIT NUMBER: B-154183 INSPECTION AREA: 4

SPECIAL INSPECTION REQUIRED?		☐ YES	☐ NO	IF YES, SEE ADDITIONAL SHEET
INSPECTION RECORD	DATE	NAME	REMARKS	
FOUNDATION				
FORMS/SETBACK				
FOOTING				
WALLS				
UFER GROUND #				
CAISSONS/PIERS				
SLAB	For note T-11	6-17-77	[Signature]	
MASONRY				
RETAINING WALLS				
FIREPLACE				
FOOTING				
HEARTH/PROTECTION				
THROAT				
CHIMNEY				
UNDERFLOOR/SLAB				
U/F ELECTRICAL				
U/F MECHANICAL				
U/F PLUMBING				
U/F FRAMING				
U/F INSULATION				
DIAPHRAGMS				
SHEAR WALLS				
☐ INTERIOR				
☐ EXTERIOR				
ROOF DIAPHRAGM				
FLOOR DIAPHRAGM				
SIDING/SHEATHING				
HOLD DOWNS				
STUCCO/PLASTER/LATH				
CLOSE-IN				
ROUGH ELECTRICAL				
ROUGH MECHANICAL				
ROUGH PLUMBING				
ROUGH FRAME				
SMOKE DETECTORS				
INSULATION				
WALLBOARD				
STUCCO/PLASTER/SCRATCH				
TUB/SHOWER PAN				
SUSPENDED CEILING				
ROUGH ELECTRICAL				
ROUGH MECHANICAL				
EXISTING				
STAIRS/HANDRAILS				
RAMPS				
CORRIDORS/DOORS				
HANDICAP REQS.				
ENERGY REQS.				
TEMP OCCUPANCY				
TEMP. ELECTRIC				
TEMP. GAS				
ELEC. METER AUTH.				
PANEL BOARDS/SERVICE				
GAS METER AUTH.				
GAS PRESSURE TEST				
HOUSE				
YARD				
MANUF. HOME FOUNDATION				
MANUF. HOME INSTALLATION			FIRE INSP. REQ'D ☐ Yes ☐ No	
CONTINUITY			Inspected by:	
STAIRS/SKIRTS				
RIDGE BOLTING				
SWIMMING POOL				
PRE-GUNITE				
PRE-DECK				
PRE-PLASTER/FENCE			CLEARANCES:	
GRADING FINAL			FIRE	
ELECTRICAL FINAL			HEALTH DEPT.	
MECHANICAL FINAL			PLANNING	
PLUMBING FINAL			SANITATION	
FINAL			N.C.A.P.C.D.	
OCCUPANCY (OK TO OCCUPY)			PLAN RETENTION REQUIRED	
			Yes ☐ No ☐	

SPECIAL INSPECTION REQUIRED		☐ YES	☐ NO	IF YES, SEE ADDITIONAL SHEET
INSPECTION RECORD	DATE	NAME	REMARKS	
FOUNDATION			*Site review @ foundation*	
FORMS/SETBACK				
FOOTING				
WALLS				
UPPER GROUND #				
CAISSONS/PIERS				
SLAB				
MASONRY				
RETAINING WALLS				
FIREPLACE				
FOOTING				
HEARTH/PROTECTION				
THROAT				
CHIMNEY				
UNDERFLOOR/UNDERSLAB				
U/F ELECTRICAL				
U/F MECHANICAL				
U/F PLUMBING				
U/F FRAMING				
U/F INSULATION				
SHEAR WALLS				
☐ INTERIOR				
☐ EXTERIOR				
DIAPHRAGMS				
☐ ROOF				
☐ FLOOR				
SIDING/SHEATHING				
HOLD DOWNS				
CLOSE-IN				
ROUGH ELECTRICAL				
ROUGH MECHANICAL				
ROUGH PLUMBING				
ROUGH FRAME				
SMOKE DETECTORS				
INSULATION				
WALLBOARD				
STUCCO/PLASTER				
☐ LATH				
☐ SCRATCH				
TUB/SHOWER PAN				
SUSPENDED CEILING				
ROUGH ELECTRICAL				
ROUGH MECHANICAL				
EXITING				
STAIRS/HANDRAILS				
RAMPS				
CORRIDORS/DOORS				
HANDICAP REQUIREMENTS				
ENERGY REQUIREMENTS				
TEMPORARY OCCUPANCY				
TEMPORARY ELECTRICAL				
TEMPORARY GAS				
ELECTRIC METER AUTHORIZATION				
PANEL BOARDS/SERVICE				
GAS METER AUTHORIZATION				
GAS PRESSURE TEST				
HOUSE				
YARD				
MANUF. HOME FOUNDATION				
MANUF. HOME INSTALLATION			FIRE INSPECTION REQUIRED ☐ Yes ☐ No	
CONTINUITY			Inspected by:	
STAIRS/SKIRTS				
RIDGE BOLTING				
SWIMMING POOLS				
PRE-GUNITE				
PRE-DECK			CLEARANCES:	
PRE-PLASTER/FENCE			FIRE ☐ Local ☐ County	
GRADING FINAL			HEALTH DEPARTMENT	
ELECTRICAL FINAL			ZONING	
MECHANICAL FINAL			SANITATION	
PLUMBING FINAL			N.C.A.P.C.D.	
FINAL				
OCCUPANCY (OK TO OCCUPY)			PLAN RETENTION REQUIRED? ☐ Yes ☐ No	

PERMIT #

COUNTY OF SONOMA

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA

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

BUILDING PERMIT RECEIPT

B-154183

Site Location Information
Address: 7520 BARCAGLIA RD GRA
Cross Street: GRAVENSTEIN HWY

Printed By: CNIEDERM 09:34 May 25, 1999

APN: 130-261-008

Initialized By: FWILLIAM B-BLD 9801

Owner
CORDOZA-BELL ROSE MARIE TR
200 CELIA PL
LAS VEGAS NV

891284951

Applicant
GLAZIER & GLAZIER
50 FALLON RD
PETALUMA CA

94952

707 763 1027

Contractor
GLAZIER & GLAZIER
50 FALLON RD
PETALUMA CA

707 763 1027

94952
Lic. #: 373850

Architect or Engineer

Lic. #:

Permit Description: 10,500 CONCRETE WATER TANK -SFD STOCK PLAN
Valuation/Contract Price: \$4,950.00
Plancheck Multiplier: 1.00
Occupancy Type

Status: PC APRVD

Issued:

Type: SOTH

Penalty Multiplier (Where Applicable):

Factor	Sq. Feet	Valuation
Subtotal:		.00
Multiplier 1.00:		.00
Addl Fixed Amount:		4,950.00
Total Valuation:		4,950.00

Table Date: 07/01/1998

Item #	Item Account Code	Description	Fee	Prev. Paid
0011	1341 3505	INSPECTIONS - OTHER	\$.00	\$.00
0012	1341 3505	INSP. OUTSIDE NORMAL HRS	\$.00	\$.00
0013	1341 3505	REINSPECTION(S) FEE	\$.00	\$.00
0018	3141 1004	APPLICATION PROCES'G FEE	\$36.00	\$.00
0050	327023-4040	S.M.I.P. RESIDENTIAL	\$.50	\$.00
0060	1341	BLDG PERM PLAN CHECK FEE	\$.00	\$.00
0062	1341	ADDITIONAL PLANCHCK FEE	\$.00	\$.00
0100	1341 3502	SITE REVIEW/ELEV. CERT.	\$73.00	\$.00
0119	649103-3661	CO FIRE MARSHAL REVIEW	\$.00	\$.00
0120	1341 3504	FIRE STDS INSPECT - PRMD	\$.00	\$.00
0121	1341	FIRE SAFE STDS &REF PRMD	\$.00	\$.00
0122	1341 3504	ELECTRICAL FEE	\$.00	\$.00
0123	1341 3504	MECHANICAL FEE	\$.00	\$.00
0124	1341 3504	PLUMBING FEE	\$.00	\$.00
0132	1341 3504	BUILDING PERMIT FEE	\$79.40	\$.00
0220	1600	VIO. PENALTY FEE (BLDG)	\$.00	\$.00
0221	4114	VIO. INVEST. FEE (BLDG)	\$.00	\$.00
0707	3140 6054	REF.-GRADING/DRAIN. PLAN	\$.00	\$.00
0708	3140 6055	REF.-GRD/DRAIN DAM/DRVWY	\$.00	\$.00
1165	3829 6146	ZONING PERMITS W/O D.R.	\$19.00	\$.00
2000	335208	CTY-WDE CE TRAFFIC MIT	\$.00	\$.00
2001	335307	CTY-WDE NO TRAFFIC MIT	\$.00	\$.00
2002	335406	CTY-WDE SO TRAFFIC MIT	\$.00	\$.00
2003	335505	CTY-WDE WE TRAFFIC MIT	\$.00	\$.00
2005	335042	EASTMN LN TRAFFIC MIT	\$.00	\$.00
2006	335075	MOORLAND AV DRAINAGE MIT	\$.00	\$.00
2007	335034	LARK/WIKIUP TRAFFIC MIT	\$.00	\$.00
2008	335059	SONOMA VLY TRAFFIC MIT	\$.00	\$.00
5011	1341-WAIVED 3505	INSPECTIONS - OTHER	\$.00	\$.00
5012	1341-WAIVED 3505	INSP. OUTSIDE NORMAL HRS	\$.00	\$.00
5013	1341-WAIVED 3505	REINSPECTION(S) FEE	\$.00	\$.00
5018	3141-WAIVED 1004	PROCESSING FEE	\$.00	\$.00
5060	1341-WAIVED	BLDG PERM PLAN CHECK FEE	\$.00	\$.00
5062	1341-WAIVED	ADDITIONAL PLANCHCK FEE	\$.00	\$.00
5100	1341-WAIVED 3502	SITE REVIEW/ELEV. CERT.	\$.00	\$.00
5119	649103-3661-WAIVED	CO FIRE MARSHAL REVIEW	\$.00	\$.00
5120	1341-WAIVED 3504	FIRE STDS INSPECT - PRMD	\$.00	\$.00
5121	1341-WAIVED	FIRE SAFE STDS &REF PRMD	\$.00	\$.00
5122	1341-WAIVED 3504	ELECTRICAL FEE	\$.00	\$.00
5123	1341-WAIVED 3504	MECHANICAL FEE	\$.00	\$.00
5124	1341-WAIVED 3504	PLUMBING FEE	\$.00	\$.00
5132	1341-WAIVED 3504	BUILDING PERMIT FEE	\$.00	\$.00
5220	1600-WAIVED	VIOLATION PENALTY FEE	\$.00	\$.00
5221	4114-WAIVED 2001	VIOLATION INVESTIG FEE	\$.00	\$.00
5707	3140-WAIVED 6054	REF.-GRADING/DRAIN. PLAN	\$.00	\$.00
5708	3140-WAIVED 6055	REF.-GRD/DRAIN DAM/DRVWY	\$.00	\$.00
6165	3829-WAIVED 6146	ZONING PERMITS W/O D.R.	\$.00	\$.00
7000	335208-4040-WAIVED	PRM-CO-WDE CE DEV FEE TR	\$.00	\$.00
7001	335307-4040-WAIVED	PRM-CO-WDE NO DEV FEE TR	\$.00	\$.00
7002	335406-4040-WAIVED	PRM-CO-WDE SO DEV FEE TR	\$.00	\$.00
7003	335505-4040-WAIVED	PRM-CO-WDE WE DEV FEE TR	\$.00	\$.00
7005	335042-4040-WAIVED	PRM-EASTMN LN DEV FEE TR	\$.00	\$.00
7006	335075-4040-WAIVED	PRM-MOORLAND DEV FEE TR	\$.00	\$.00
7007	335034-4040-WAIVED	PRM LARK/WIK SP PLN DEV	\$.00	\$.00
7008	335059-4040-WAIVED	PRM-SONOMA VLY DEV FEE T	\$.00	\$.00

Permit qualified for fee waiver (Y/N): N

\$207.90

\$.00

Total Calculated Fees
Previously Paid

\$207.90
\$.00

CASH REGISTER
VALIDATION
REQUIRED
BELOW

Balance Due

\$207.90

B. ROOF SLAB CHECK, 10,500-GALLON TANK:

Check bending in each half and tension-ring forces for center portion:

Span, ft: 6.3

Dead load, psf: 75.0

Live load: 20.0

Conc $f'_c = 2000$ psi

Steel $f_y = 40000$ psi

Factored $w = 1.4 \times DL + 1.7 \times LL = 1.4 \times 75 + 1.7 \times 20 = 139$ plf

Factored $M = w \times (L)^2 / 10 = 552$ lb-ft/ft

Dimensions: depth = 6 in; #4@18 bars; $A_s = 0.13$ sq in

Depth $d = 6.0 - 1.5 - 0.50/2 = 4.25$ in

$Rho = A_s / (b \times w / d) = 0.0018$

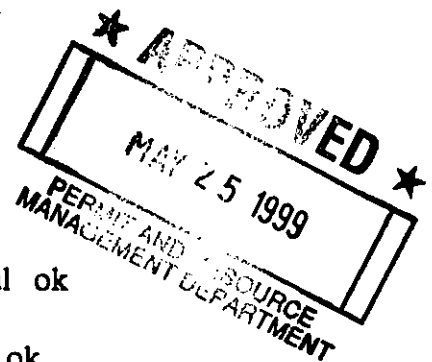
$\omega = A_s / (b \times w \times d) \times f_y / f'_c = 0.051$

$a_u = \phi \times f_y \times (1 - 0.59 \times \omega) / 12000 = 2.91$

Min. $A_s = M / a / d = 552 / 2.91 / 4.25 / 1000 = 0.04$ sq in vs. 0.13 actual ok

Concrete $K_u = \phi \times f'_c \times \omega \times (1 - 0.59 \times \omega) = 89.6$

Max concrete $M_u = K_u \times b \times w \times d^2 / 12 = 1618$ lb-ft vs. 552 actual ok



6-inch concrete slab
#4@18 bars

CENTER PORTION $D+L$

$$= \frac{\pi}{4} \times (6.3')^2 \times (75+20) \text{ PSF}$$

$$= 2300 \text{ LB}$$

TOTAL RING TENSION

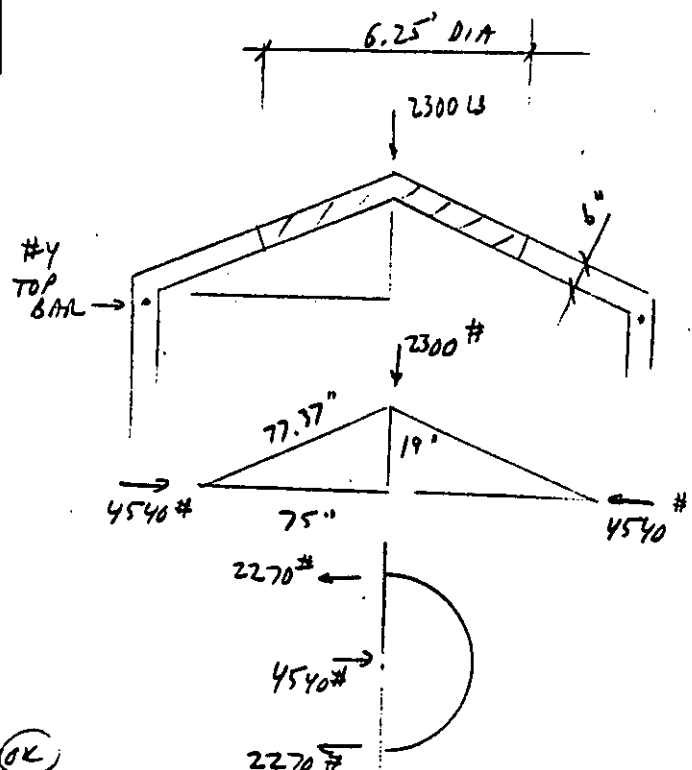
$$= 2300 \text{ LB} \times \frac{75''}{19''} = 9080 \text{ LB}$$

$$50\% \text{ EACH HALF} = 4540 \text{ LB}$$

$$\text{REBAR TENSION} = \frac{4540}{2} = 2270 \text{ LB}$$

$$\#4 \text{ BAR GOOD FOR } 20 \text{ KSI} \times 0.20 \text{ IN}^2$$

$$= 4 \text{ K} > 2270 \text{ LB} \text{ (OK)}$$



B-154183

STRUCTURAL CALCULATIONS:
2000, 4000, 8000 and 10,500-GALLON
CONCRETE WATER TANKS:

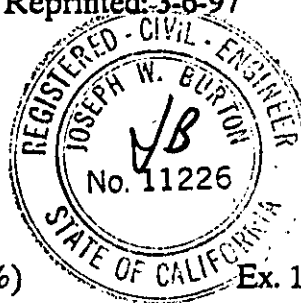
Burton Engineers
P.O. Box 5957
Petaluma, CA 94955
(707) 763-2461

Job 1190
Sheet 1
of 2 sheets
10-29-91

Reprinted: 3-6-97

ASSUMPTIONS:

water weight, pcf:	62.4
concrete f'c, psi:	2000
rebar grade:	40
max rebar tension, ksi:	20
max keyway shear, psi:	50.5 (38 psi x 133%)



Ex. 12-00

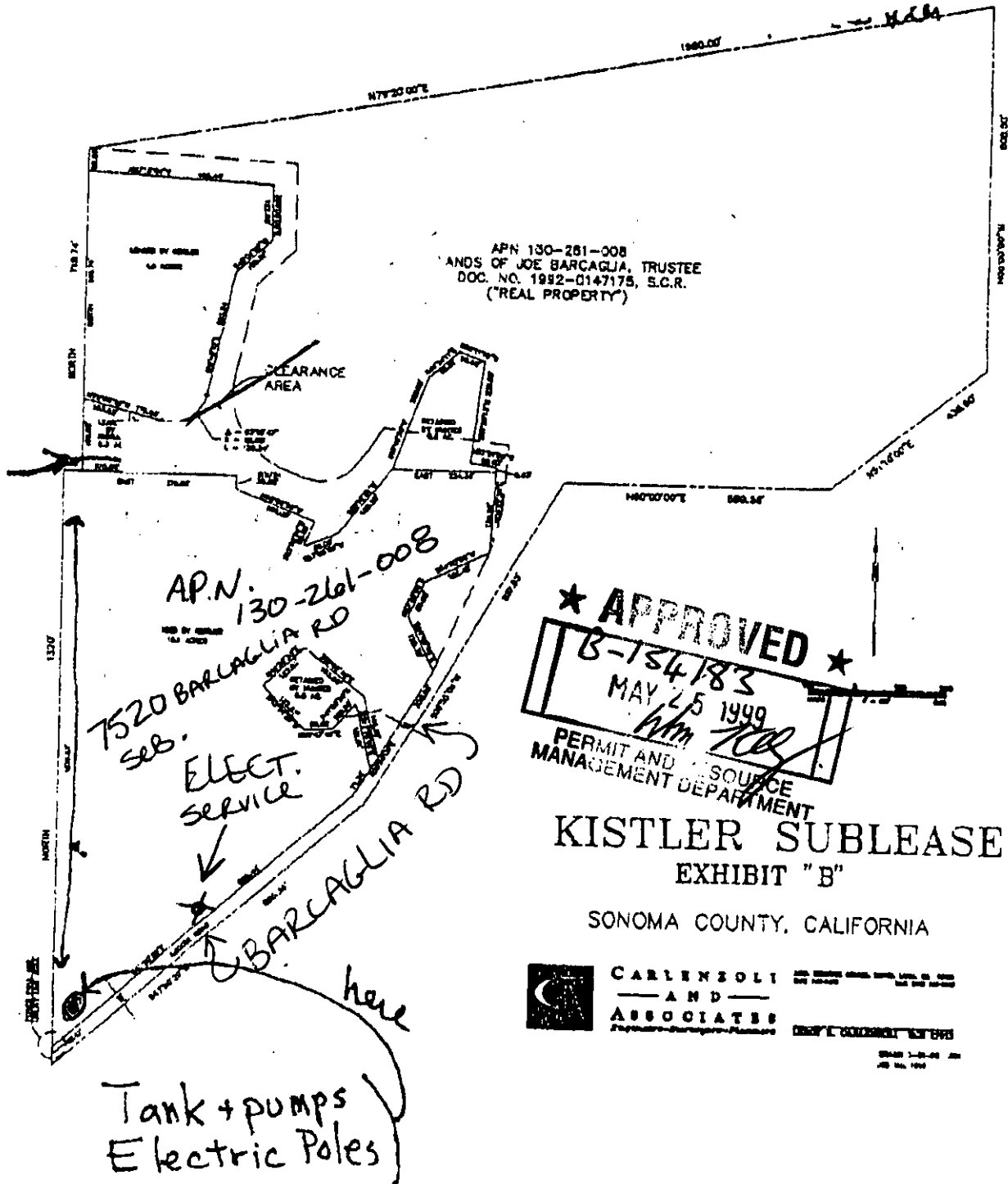
tank size, gallons:	2000	4000	8000	10500
diameter D, ft:	7.0	10.0	12.5	12.5
height H, ft:	6.95	6.81	8.71	11.44
bottom pressure PR, psf:	433	425	544	714
ring tension, PR*D/2, klf:	1.52	2.12	3.40	4.46
bottom bars:	#3@6	#3@6	#4@6	#4@6
area, sq.in/lf:	0.22	0.22	0.39	0.39
rebar tension, ksi:	6.87	9.62	8.65	11.36
mid-D pressure PR, psf:	217	212	272	357
ring tension, PR*D/2, klf:	0.76	1.06	1.70	2.23
middepth bars:	#3@12	#3@12	#4@12	#4@12
area, sq.in/lf:	0.11	0.11	0.20	0.20
rebar tension, ksi:	6.87	9.62	8.65	11.36
keyway area A, pi*D*2":	528	754	942	942
tank DL:				
walls, (H+1')*0.5*pi*D*150:	13.1	18.4	28.6	36.6
roof, pi/4*D^2*0.5*150:	2.9	5.9	9.2	9.2
water, pi/4*D^2*H*62.4:	16.7	33.4	66.7	87.6
total W, k:	32.7	57.7	104.5	133.4
seismic V, 0.4*1*2.75*W/6:	6.0	10.6	19.2	24.5
keyway shear, V/A, psi:	11.4	14.0	20.3	26.0

★ APPROVED ★

MAY 25 1999

PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT

B-154183



UNDEVELOPED VINYARD LAND.
ELECT SERVICE FOR VINYARD PUMP SYSTEM
100 AMP 1Ø 240 V. 15 HP TOTAL.

B-154183

Kistler Barcaglia Road Tank Site

**ZONING
APPROVAL**
WORK INDICATED ON THESE
DRAWINGS IS APPROVED ON THE
BASIS THAT ALL WORK WILL
COMPLY WITH ALL REQUIREMENTS
OF THE COUNTY OF SONOMA
WHETHER SHOWN ON THESE
DRAWINGS OR NOT.
PERMIT AND RESOURCE
MANAGEMENT DEPARTMENT

Mailbox
71847

Medium Tree

based on

White
House

Tank

15' to
edge of
road

35'

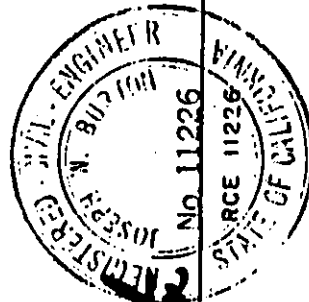
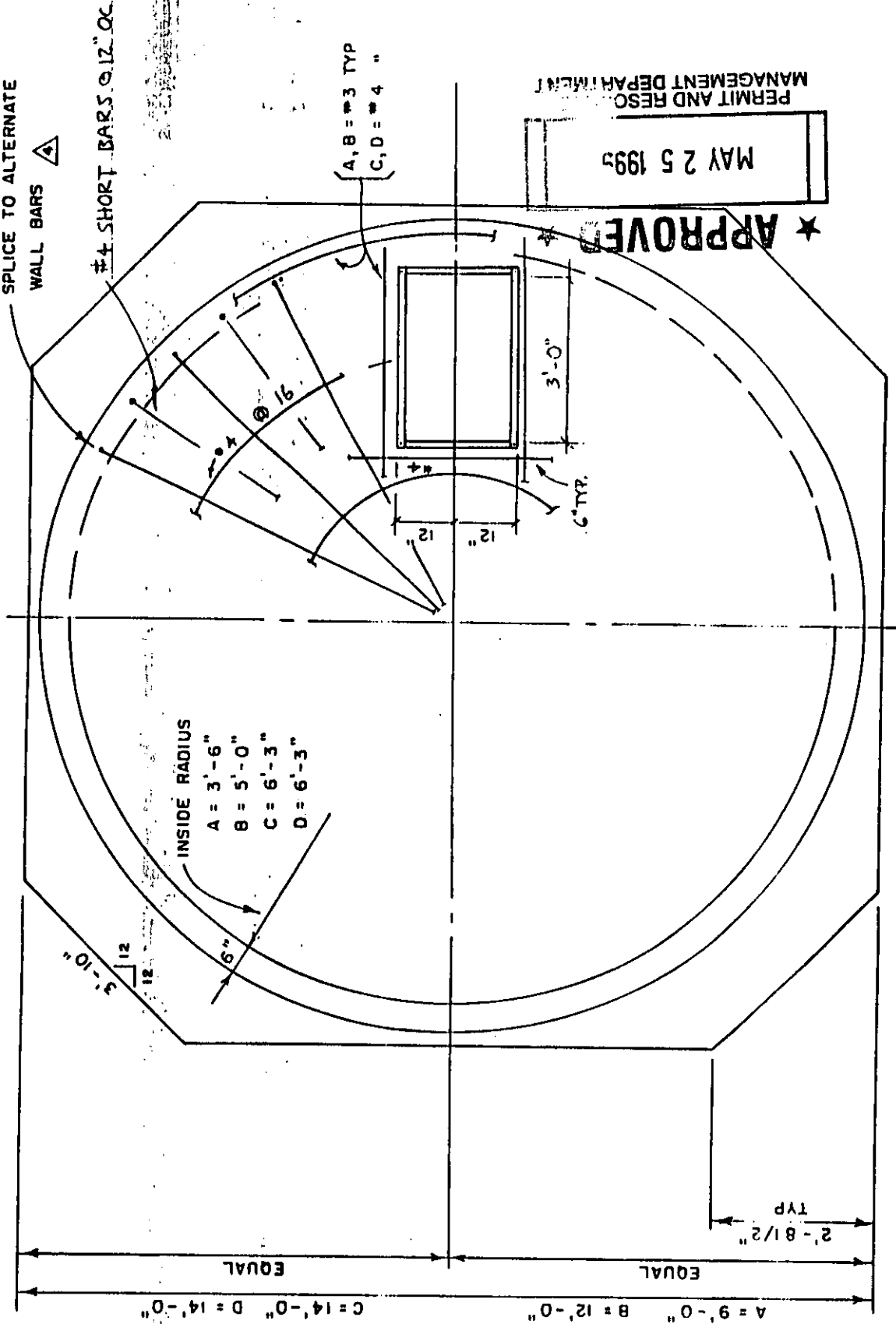
Road is 10 feet below
grade level at
Tank Site

Big
Tree

Mailboxes
786087890
↑ Hwy 116
ca. 1000' away

NOTES

1. ALL WORK SHALL CONFORM TO LOCAL BUILDING CODE.
2. CONCRETE SLAB AND TANK $f'_c = 2,000 \text{ PSI}$ 3
3. A = DIMENSION FOR 2,000 - GALLON TANK
 B = " " 4,000 - " "
 C = " " 8,000 - " "
 D = " " 10,500 - " "
4. REBAR: ASTM A615, GRADE 40. STAGGER ADJACENT HORIZONTAL SPLICES. MIN. LAP SPLICE: 20" #4, 12" #3. 2
5. THIS PLAN IS REDUCED - SCALE EQUIVALENT OF STANDARD TANK PLAN DATED SEPTEMBER 23, 1976 FROM THIS OFFICE.



W. Burton

JOSEPH W. BURTON
LIC. EX. 12/00

APPROVED FOR REPRODUCTION

STANDARD 2,000 TO 10,500 - GALLON CONCRETE WATER TANKS
GLAZIER & GLAZIER BUILDERS, INC.

BURTON ENGINEERS
PETALUMA

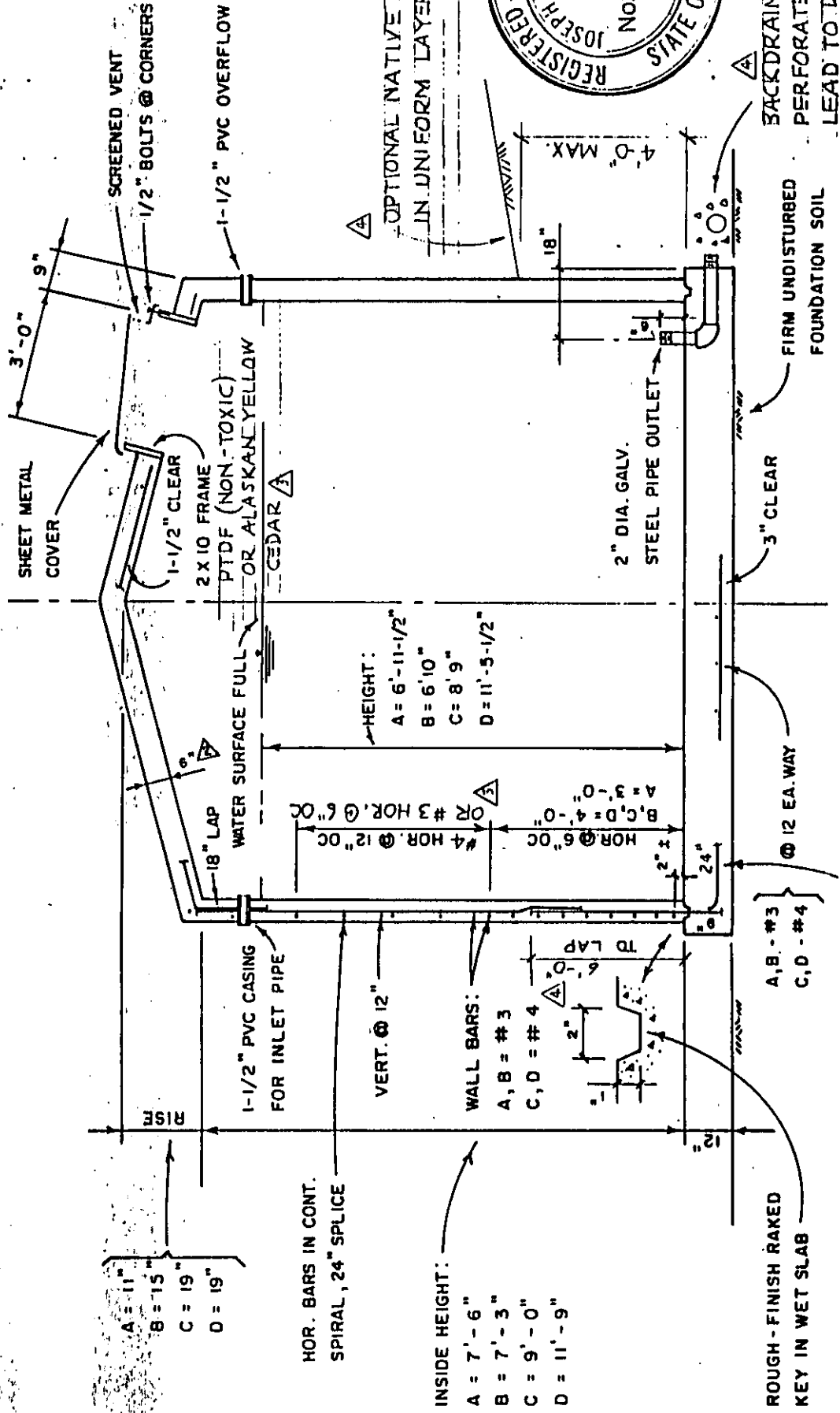
SEPT. 23, 1976

REVISED: 6-1-93
CURRENT PRINTING DATE: 10-2-97
SHEET 1 OF 2
DWG. 1190-1

APPROVED
MAY 25 1995
PERMIT AND RESO.
MANAGEMENT DEPARTMENT

B-154183

★ APPROVED ★



HOOK REQD. ONLY FOR BACKFILL
OVER FOUR FEET HIGH ¹/₂

CURRENT PRINTING DATE: 12-16-97

REVISED: 4-6-98/5

SHEET 2 OF 2

B-154183

