B

Type

X

Plans

B-122775

Permit Number

424

Street Number

SHEPP CT

Street Name

BEL

Community Code

125-590-062

APN

# SONOMA COUNTY
# BUILDING INSPECTION

575 ADMINISTRATION DRIVE
SANTA ROSA, CA 95403-2884
TELEPHONE (707) 527-2221

JOB ADDRESS 424 Shepp Ct

**OWNER**
NAME George R. Dutton
MAILING ADDRESS 100 Stony Pt Rd #255 TEL NO 545-8420
CITY Santa Rosa ZIP CODE CA 95401

**PROJECT**
ADDRESS 424 ~~427~~ Shepp Court
CITY Santa Rosa, CA 95407
SUBDIVISION NAME Shepp Court III UNIT NO LOT 26 BLOCK
ASSESSOR'S PARCEL NO 125-590-026
NEAREST CROSS STREET Dutton Ave.

**CONTRACTOR**
NAME
ADDRESS TEL NO
CITY ZIP CODE
STATE LIC NO LIC CLASS

**DESIGNER**
NAME
ADDRESS TEL NO.
CITY ZIP CODE

CERTAIN AREAS WITHIN SONOMA COUNTY MAY BE GEOLOGICALLY HAZARDOUS. YOU ARE INVITED TO REVIEW ANY GEOLOGIC DATA THAT THIS DEPT HAS AVAILABLE TO AID YOU IN MAKING A DETERMINATION AS TO THE SUITABILITY OF A PROPOSED BUILDING SITE.

CONDITION OF SOIL AT JOB SITE
☐ ORIGINAL ☐ ENGINEERED FILL ☐ LOOSE FILL

SITE REVIEW See B120424
BY: DATE:
REQUIRED REPORTS:
☐ GEOLOGY ☐ SOILS ☐ COMPACTION
FLOOD ZONE ☐ ____
☐ YES ☑ NO 100 YR. FLOOD ELEV. ____

**SEWER CONNECTION:** SANITATION ENGINEER
APPROVED BY ____ DATE / /

**ROAD ENCROACHMENT:**
APPROVED BY: ____ DATE: ____

**SEPTIC TANK INSTALLATION:** HEALTH DEPARTMENT
PERMIT NUMBER ____ OR CLEARANCE ____
DATE REC'D / / DATE ISSUED / /

(1) **LICENSED CONTRACTORS DECLARATION:** I hereby affirm 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.
Contractor's Signature ____ Lic. # ____

(2) **OWNER-BUILDER DECLARATION:** I hereby affirm 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 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 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 through his 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 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 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. ____
Owner's Signature [signature]

(3) **WORKER'S COMPENSATION DECLARATION:** I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof filed with the Building Inspection Department (Sec. 3800, Lab. C.).
Policy No. ____ Insurance Co. ____
Applicant's Signature ____ Expiration Date ____

(4) **CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE:** 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 Workers' Compensation Laws of California.
Owner's or Contractor's Signature [signature]

(5) **CONSTRUCTION LENDING AGENCY:** I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).
Lender's Name ____
Lender's Address ____

WORK AUTHORIZED Revise B120425 to the #12/09 plan (addendum)

NEW ☑ ADDITION ☐ ALTERATION ☐ REPAIR ☐ MOVING ☐ OCC CHG ☐

| | SIZE IN SQUARE FEET | RATE PER SQUARE FOOT | VALUE |
|---|---|---|---|
| FLOOR AREA | 81 | 72.9 | 5905 |
| GARAGE CARPORT | | | |
| DECK AWNING | | | |
| | | | |

FEES - Per Chapter 7, et seq. Sonoma County Code TOTAL ▶ 5905

| | |
|---|---|
| ☑ BUILDING | 72.50 |
| ☐ PLAN CHECK | |
| ☑ PLUMBING | 25.00 |
| ☑ ELECTRICAL | 25.00 |
| ☑ MECHANICAL | 25.00 |
| ☐ GRADING | |
| ☐ SITE/PROP | |
| ☑ PLANNING | 15.00 |
| ☐ FIRE | |
| ☑ SEISMIC | .60 |
| ☐ INVEST. FEES | |
| ☑ PROCESSING FEE | 16.00 |
| **TOTAL $** | 179.10 |

☑ PLANS APPROVED ☐ NO PLANS SUBJECT TO FIELD INSPECTION
APPROVED BY: RC DATE: 11-29-93

**PERMITTEE**
THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS, AND IS SUBJECT TO EXPIRATION IF WORK THEREUNDER IS SUSPENDED FOR 180 DAYS.
NAME George R. Dutton
ADDRESS 100 Stony Pt Rd #255 CITY Santa Rosa ZIP 95401
I certify that I have read this application and state that the above information is correct and that I am the owner or the duly authorized agent of the owner. I agree to comply with all County 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 from the Worker's Compensation provisions of the Labor Code, I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workmen's Compensation law, this permit shall be deemed revoked.
SIGNATURE [signature] DATE 12/27/93
☐ CONTRACTOR ☑ OWNER ☐ AGENT FOR CONTRACTOR ☐ AGENT FOR OWNER

**PLANNING DEPARTMENT**
ZONING R1-B6 Planned FILE NO ____ ACRES .41
EXISTING USE Vacant
PROPOSED USE SFD/gar 1/1
YARDS FRONT 20m LEFT SIDE 5'm RIGHT SIDE 5m REAR 20m

**PLANNING APPROVALS**
FOR PERMIT ISSUANCE BY ____ DATE ____
FOR OCCUPANCY BY M. Hackel DATE 12/28/93

REMARKS ____

SOUND MITIGATION: ☐ REQUIRED ☑ EXEMPT
DEVELOPMENT FEES: ☑ REQUIRED ☐ EXEMPT

DATE RECEIVED ____ REC'D BY ____ PREVIOUS PERMIT NO. ____ DATE CLEARED FOR ISSUANCE 12-28-93 BY ____

| TYPE OF CONSTRUCTION | OCCUPANCY |
|---|---|
| VN | R3/M |
| NO OF STORIES 1 | NO OF BEDROOMS 3 |
| CERTIFICATE OF OCC. | |
| FINAL DATE 1-21-94 INSPECTOR | |

**MACHINE SPACE FOR PERMIT FEE**

| | |
|---|---|
| # | 0122775 |
| BLDG. | $72.50 |
| BLDG. | $25.00 |
| BLDG. | $25.00 |
| BLDG. | $25.00 |
| PLANIG | $15.00 |
| EQ PGM | $0.60 |
| BLDG. | $16.00 |
| ***TTL | $179.10 |
| CHECK | $179.10 |
| CHNG | $0.00 |

INCORPORATED CITY ☐ YES ☑ NO
NEAREST CROSS STREET Dutton Ave
MAP REFERENCE
PERMIT NUMBER 122775
INSPECTION AREA 3

BD-001 (REV 4/92)

| INSPECTION RECORD | DATE | NAME | REMARKS |
|---|---|---|---|
| SURVEY | | | |
| FOUNDATION FORMS - SET BACK | 4-13-94 | | |
| SLAB | 4-18-94 | | |
| UFER GROUND | 4-13-94 | | |
| CONC BLOCK | | | |
| RETAINING WALLS | | | |
| MASONRY | | | |
| FIREPLACE - FOOTING ☐ | | | |
| HEARTH ☐ THROAT ☐ CHIMNEY ☐ | | | |
| UNDERFLOOR/SLAB ELEC | 4-16-94 | | |
| UNDERFLOOR/SLAB MECH | | | |
| UNDERFLOOR/SLAB PLUMB | | | |
| UNDERFLOOR/SLAB FRAME | | | |
| ELEC ROUGH | 4-20-94 | | |
| MECH ROUGH | | | |
| PLUMB ROUGH | | | |
| GAS TEST | | | |
| FRAME ROUGH | | | |
| DIAPHRAGMS | | | |
| ROOF NAILING | | | |
| SHEAR WALLS | 5-26-94 | PM By | |
| HOLD DOWNS | | | |
| SIDING | | | |
| [S] CH | | | |
| ATION CONTROL | | | |
| INSULATION ROOF ☐ WALLS ☐ FLOORS ☐ | | | |
| WALL BOARD | 6-10-94 | | |
| FIREWALLS | | | |
| GAS SERVICE EQUIP | | | |
| ELEC SERVICE EQUIP | | | |
| PANEL BOARDS | | | |
| SMOKE DETECTOR | 7-21-94 | | |
| STAIRWAYS - HANDRAILS | | | |
| SUSPENDED CEILINGS | | | [redacted] |
| FIRE DAMPERS | | | |
| RAMPS - RAILS | | | |
| HANDICAP REQ | | | |
| ENERGY REQ | | | |
| TEMP OCCUPANCY | | | |
| TEMP ELEC | | | |
| TEMP GAS | | | |
| FINAL | | | |
| FIRE DEPT | | | INSP by Sonoma Co. Dept of Fire SVCS Reg. |
| HEALTH DEPT / PUBLIC WORKS | | | |
| PLANNING | | | |
| ELEC METER AUTH | | | |
| GAS METER AUTH | | | |
| PLUMBING FINAL | 7-21-94 | | |
| ELEC FINAL | | | |
| MECH FINAL | | | |
| AIR QUALITY CONTROL | | | |
| GRADING FINAL | | | |
| SWIMMING POOL PRE - GUNITE | | | |
| PRE - DECK | | | |
| PRE - PLASTER | | | |
| | 7-21-94 | | |

PERMIT # 12775

PLAN RETENTION REQUIRED
YES ☑ NO ☐

[3]

Project Name: SHEPP RESIDENCE PLAN 1318 | Date: 8/30/1993
Address: SHEPP SUBDV. SANTA ROSA, CA. | Building Permit No
Designer: MIKE CRAIGIE | Checked by / Date
Documentation: Sol*Data Energy Consulting | COMPLY 24 User 1004

GENERAL INFORMATION

| | |
|---|---|
| Compliance Method: | COMPLY 24 version 4.10 |
| Climate Zone: | 2 |
| Conditioned Floor Area: | 1318 sqft |
| Building Type: | Single Fam Det |
| Building Front Orientation: | Four Cardinal Orientations |
| Number of Dwelling Units: | 1 |
| Floor Construction Type: | Raised Floor |

BUILDING SHELL INSULATION

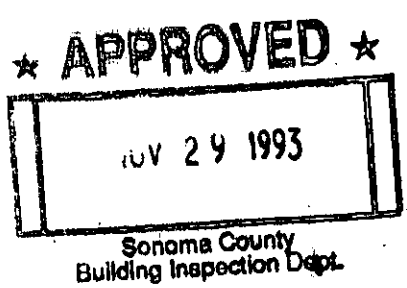
| Component | U-Value | Location/Comments |
|---|---|---|
| R-13 Wall - 5/8 Plywd. | 0.083 | HOUSE - PLAN 1318 |
| Solid Wood Door | 0.387 | HOUSE - PLAN 1318 |
| R-30 Roof(R.30.2x4.24) | 0.031 | HOUSE - PLAN 1318 |
| R-19 Floor(F.19.2x8.16) | 0.037 | HOUSE - PLAN 1318/R-6 Crawlspace |

FENESTRATION

| Orient. | Area | U-Val | Type | Shading Devices Interior | Exterior | OH | SF | Frame Type |
|---|---|---|---|---|---|---|---|---|
| Front | 40.0 | 0.87 | Double | Std Drape | Standard Bug Scr | N | N | Metal |
| Front | 20.0 | 0.87 | Double | Std Drape | Standard Bug Scr | Y | N | Metal |
| Left | 18.5 | 0.87 | Double | Std Drape | Standard Bug Scr | N | N | Metal |
| Back | 23.0 | 0.87 | Double | Std Drape | Standard Bug Scr | Y | N | Metal |
| Back | 80.0 | 0.77 | Double | Std Drape | Standard Bug Scr | Y | N | Metal |
| Right | 20.0 | 0.87 | Double | Std Drape | Standard Bug Scr | N | N | Metal |
| Right | 20.0 | 0.87 | Double | Std Drape | Standard Bug Scr | Y | N | Metal |

THERMAL MASS

| Type | Covering | Area (sf) | Thick (in) | Location/Description |
|---|---|---|---|---|
| NONE | | | | |



Project Name: SHEPP RESIDENCE PLAN 1318 | Date: 8/30/1993

Documentation: Sol*Data Energy Consulting | COMPLY 24 User 1004

| HVAC SYSTEMS System Type | Minimum Efficiency | Distrib Type and Location | Duct RVal | TStat Type | Location/Comments |
|---|---|---|---|---|---|
| Furnace | 0.780 AFUE | Ducts in Crawl | 4.2 | SetBck | HOUSE - PLAN 1318 |
| No Cooling | 10.000 SEER | Ducts in Crawl | 4.2 | SetBck | |

| WATER HEATING SYSTEMS System Name | Distribution Type | Water Heater Type | No. in Sys | Energy Factor | Tank Size (gal) | Ext. Insul R-Val |
|---|---|---|---|---|---|---|
| GAS 40 Gal: EF=0.61 | Standard | StorGas | 1 | 0.61 | 40.0 | 12.0 |

| WATER HEATER EQUIPMENT DETAIL System Name | System Type | AFUE /Rec Eff | Rated Input | Stdby Loss | Tank R-Val | Pilot Light |
|---|---|---|---|---|---|---|
| GAS 40 Gal: EF=0.61 | DomesticHW | 0.850 | 40000 | 0.036 | 0.0 | 0 |

SPECIAL FEATURES/REMARKS

Water heater is a State PRV-40-NOCT or equal. **Note:** Glass U-values are per the default values given in Table G-4 of the Residential Energy Manual. Standard U-values for wall, roof and floor assemblies are taken from Tables G-16 and G-17 and G-18 of the Residential Energy Manual.

COMPLIANCE STATEMENT

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 & 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility. When this certificate of compliance is submitted for a single building plan to be built in multiple orientations, any shading feature that is varied is indicated in the Special Features/Remarks section

DESIGNER or OWNER
(Per Business & Professions Code)
MIKE CRAIGIE

SANTA ROSA, CA.
538-7361 Lic #:

(signature) (date) 8/30/93

DOCUMENTATION AUTHOR
Skeer
Sol*Data Energy Consulting
908-A College Avenue
Santa Rosa, CA 95404
(707) 545-4440

(signature) Skeer (date) 8/30/93

ENFORCEMENT AGENCY
Name:
Title:
Agency:
Telephone:

★ APPROVED ★
NOV 29 1993
Sonoma County
Building Inspection Dept.

(signature/stamp) (date)

Project Name: SHEPP RESIDENCE PLAN 1318 | Date: 8/30/1993

Documentation: Sol*Data Energy Consulting | COMPLY 24 User 1004

NOTE: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. Items marked with an asterisk (*) may be superseded by more stringent compliance requirements listed on the Certificate of Compliance. When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as binding minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

BUILDING ENVELOPE MEASURES — Enforcement

o Sec. 150(a): Minimum R-19 ceiling insulation. * _____

o Sec. 150(b): Loose fill insulation manufacturers labeled R-Value. _____

o Sec. 150(c): Minimum R-13 wall insulation in framed walls (does not apply to exterior mass walls). * _____

o Sec. 150(d): Minimum R-13 raised floor insulation in framed floors; Minimum R-8 in concrete raised floors. * _____

o Sec. 150(l): Slab edge insulation - water absorption rate no greater than 0.3%, water vapor transmission rate no greater than 2.0 perm/inch. _____

o Sec. 118: Insulation specified or installed meets California Energy Commission quality standards. Indicate Type & form. _____

o Sec. 116-117: Fenestration Products, Ext Doors & Infil/Exfil Controls
  a. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage.
  b. Manufactured fenestration products have label w/certified U-Value
  c. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed. _____

o Sec. 150(g): Vapor barriers mandatory in Climate Zones 14 and 16 only. _____

o Sec. 150(f): Special infiltration barrier installed to comply with Sec. 151 meets Commission quality standards. _____

o Sec. 150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs
  1. Masonry and factory-built fireplaces have:
     a. Closeable metal or glass door
     b. Outside air intake with damper and control
     c. Flue damper and control
  2. No continuous burning gas pilots allowed. _____

Project Name: SHEPP RESIDENCE PLAN 1318 | Date: 8/30/1993

Documentation: Sol*Data Energy Consulting | COMPLY 24 User 1004

SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES Enforcement

o Sec. 110-13: HVAC equipment, water heaters, showerheads and faucets certified by the Commission. _____

o Sec. 150(i): Setback thermostat on all applicable heating systems. _____

o Sec. 150(j): Pipe and Tank Insulation
1. Indirect hot water tanks (eg unfired storage tanks or backup solar hot water tanks) have insulation blanket (R-12 or greater) or combined interior/exterior insulation (R-16 or greater).
2. First 5 feet of pipes closest to water heater tank, non-recirculation systems, insulated (R-4 or greater.
3. All buried or exposed piping insulated in recirculation sections of hot water system.
4. Cooling system piping below 55 F insulated.
5. Piping insulated between heating source and indirect hot water tank. _____

o Sec. 150(m) Ducts and Fans *
1. Ducts constructed, installed and sealed to comply with UMC Sections 1002 and 1004; ducts insulated to a minimum R-4.2 or ducts enclosed entirely within conditioned space.
2. Exhaust systems have backdraft or automatic dampers.
3. Gravity ventilating systems serving conditioned space have either automatic or readily accessible manually operated dampers. _____

o Sec. 114:Pool and Spa Heating Systems and Equipment
1. System is certified with 78% thermal efficiency, on-off switch, weatherproof operating instructions, no electric resistance heating and no pilot light.
2. System is installed with:
   a. At least 36" pipe between filter and heater for future solar heating.
   b. Cover for outdoor pools or outdoor spas.
3. Pool system has directional inlets and a circulation pump time switch. _____

o Sec. 115: Gas-fired central furnace, pool heater, spa heater or household cooking appliance have no continuously burning pilot light. (Exception: Non-electrical cooking appliance with pilot < 150 Btuh) _____

LIGHTING MEASURES

o Sec. 150(k): Lighting - 40 lumens/watt or greater for general lighting in kitchens and rooms with water closets; and recessed ceiling fixtures IC (insulation cover) approved. _____

# INSTALLATION CERTIFICATE — CF-6R

Use of this form to satisfy the requirements of the Administrative Code is optional, but the information must be provided and posted.

Lot 8 408 Shepp ct. S.R.
Site Address — Permit Number

An installation certificate is required to be posted at the building site prior to the issuance of the occupancy permit; this form may be used to meet these requirements. All appliance categories listed below are the actual equipment installed. Note that the efficiency and type of the appliance installed must be equivalent or better than the appliance specified on the certificate of compliance (Form CF-1R). This certificate (or its equivalent) shall be prepared and signed by the person(s) assuming overall responsibility for the appliance installation. Refer to the reverse side of this certificate for an explanation of information required.

I, the undersigned, verify that the equipment listed in the category above my signature is the actual equipment installed and that the equipment meets or exceeds the requirements of the Appliance Efficiency Standards. In addition, I have verified that the equipment is equivalent to or more efficient than the equipment specified on the Certificate of Compliance submitted to demonstrate compliance with the Energy Efficiency Standards for residential buildings.

## HVAC SYSTEMS:

### *Heating Equipment*

| Heating Equip. Type (Packaged heat pump, etc) | CEC Certified Manuf. Make & Model Number | Actual Efficiency (AFUE, etc.) | Distribution Type and Location | Duct or Piping R-Value | Heating Load Before Over-Sizing (Btuh) | Heating Equipment Capacity (Btuh) |
|---|---|---|---|---|---|---|
| GAS FAU | Rheem RGJH 045 NAUER | 80.5 | under floor | 4.5 | 38,000 | 40,000 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### *Cooling Equipment*

| Cooling Equipment Type (Packaged heat pump, etc) | CEC Certified Compressor Unit Manuf. Make & Model Number | Actual Efficiency (SEER) | Duct Location | Duct R-value |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

JAYHAWK HVAC
Lic. # 646082
3200 Dutton Ave, Suite 114
Santa Rosa, CA 95407
(707) 526-5709

Jay W. Dulan 7-15-94
Signature, Date

HVAC Subcontractor (Co. Name)
OR General Contractor OR Owner

## WATER HEATING SYSTEMS

| Distrib. System Type | Water Heater Type/# | CEC Certified Manuf. Make & Model # | Energy Factor/ Effic. | Tank Volume (gallons) | Insul Wrap R-value | Internal Insul. R-value | Standby Loss (%) | Pilot Light (Btuh) | Rated Input kW/Btu | Solar/ Wood Credits |
|---|---|---|---|---|---|---|---|---|---|---|
| UNDER FLOOR | NAT GAS | STATE PRV 40 | .61 | 40 | | R-16 | NA | NA | 40,000 | |
| | | NO CAD 42 CW | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## FAUCETS & SHOWER HEADS:

All faucets and showerheads installed are listed in the Commissions Directory Of Certified Faucets And Showerheads, pursuant to Title-24, Part 6, Subchapter 2, Section 111.

Tim Kane 7-15-94
Signature, Date

Kane Plumbing
Plumbing Subcontractor (Co. Name)
OR General Contractor OR Owner

Revised December 1992

# INSTALLATION CERTIFICATE

CF-6R

The following is an explanation of many of the input values required on the opposite side of this form:

## *HVAC SYSTEMS*

***Heating Equipment Type;*** *must be one of the following:*

| | |
|---|---|
| *Furnace:* | Gas or oil-fired central furnaces & space heaters. |
| *Boiler:* | Gas or oil-fired boilers. |
| *PckgHeatPump:* | Packaged central heat pumps. |
| *SplitHeatPump:* | Split central heat pumps. |
| *RoomHeatPump:* | Room heat pump. |
| *LrgPckgHeatPump:* | Large Packaged Heat Pumps (≥65,000 Btuh output). |
| *Electric:* | Electric resistance heating HSPF=3.413. Radiant electric resist. heating HSPF=3.55 |
| *CombinedHydro:* | Reference water heater under water heating systems, below. |

* Refer to CEC publication "Appliance Efficiency Regulations", P400-92-029.

***CEC Certified Manuf. Make & Model Number;*** *from applicable CEC appliance directory.*

***Actual efficiency;*** *from applicable CEC appliance directory.*

***Distrib type & location;*** *Distrib type is "Ducts", "Piping" or both. Duct location is "Attic", "Crawlspace", "CVCcrawlspace" or "Conditioned space". Piping location is to be listed as "Cond." or "Uncond.".*

***Duct or Piping R-Value;*** *from the Directory Of Certified Insulation Materials and/or manuf's data.*

***Heating Load Before Oversizing;*** *refer to CEC -approved heading load calculation procedure. This is the heating load result prior to application of the factor recommended in the load calculation procedure for oversizes the appliance to account for the use of a setback thermostat.*

***Heating Equipment Capacity;*** *from the applicable CEC appliance directory. Note; location elevations over 2000 ft above sea level require a derating of output capacity (refer to manufacturers literature).*

***Cooling Equipment Type;*** *must be one of the following:*

| | |
|---|---|
| *SplitAirCond:* | Split system air conditioner. |
| *PckgAirCond:* | Packaged air conditioner. |
| *SplitHeatPump:* | Split system heat pump. |
| *PckgHeatPump:* | Packaged heat pump. |
| *RoomHeatPump:* | Room heat pump. |
| *LgPckgHeatPump:* | Large Packaged Heat Pumps (≥65,000 Btuh output). Substitute EER for SEER when SEER is not available. |
| *RoomAirCond:* | Room air conditioner. Min. SEER varies* |
| *LrgPckgAirCond:* | Large Packaged Heat Pumps (≥65,000 Btuh output). Substitute EER for SEER when SEER is not available. |
| *EvapDirect:* | Direct Evaporative Cooling System. The SEER is fixed at SEER=11.0. The duct condition is to be fixed at location=attic and duct insulation R-value=4.2. |
| *EvapIndirect:* | Indirect Evaporative Cooling System. The SEER is fixed at SEER=13.0. The duct condition is to be fixed at location=attic and duct insulation R-value=4.2. |

* Refer to CEC publication "Appliance Efficiency Regulations", P400-92-029.

## *WATER HEATING SYSTEMS*

**Distribution system type:** refer to Residential Manual for more details.

| | | | |
|---|---|---|---|
| *Standard:* | Standard | *POU/HWR:* | Point of use/Hot water recovery |
| *Pipe Insulation:* | Pipe Insulation | *Recirc/NoControl:* | Recirculation loop with no control |
| *Recirc/Timer:* | Recirculation loop with a timer | *Recirc/Demand:* | Recirculation loop with demand control |
| *Recirc/Time+Temp:* | Recirc. loop with timer and temp control | *Recirc/Temp:* | Recirculation loop with temperature control |

The table below summarizes the water heating system items needed by water heater type.

| Input item | NAECA Storage Gas or Oil | NAECA Storage Electric | NAECA Heat Pump | Instant. Gas | Instant. Electric | Large Storage Gas | Indirect Gas (Boiler) |
|---|---|---|---|---|---|---|---|
| Energy Factor | Yes | Yes | Yes | | Yes | | |
| Pilot Input, Btu | | | | Yes | | | Yes |
| Recov. Eff., fraction | | | | Yes | | Yes | (AFUE) |
| Standby Loss, % | | | | | | Yes | |
| Tank Volume, gal. | Yes | Yes | Yes | | | Yes | Yes |
| Tank Insulation, R | | | | | | Yes | Yes |
| Ext. Insulation, R | Yes | Yes | Yes | | | Yes | Yes |

**Additional Information Required if Combined Hydronic System:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rated Input, kBtuh | Yes | | | | | Yes | Yes |
| Rated Input, kWl | | Yes | Yes | | | | |
| Rec. Eff, fraction | Yes | | | | | | |

WEATHERGUARD INSULATION
1556 GRENACHE WAY
SANTA ROSA, CA 95403
707-528-1107/LIC # 640307 C2

*****INSULATION CERTIFICATE*****

THIS IS TO CERTIFY THAT INSULATION HAS BEEN INSTALLED AT THE ADDRESS LISTED BELOW IN CONFORMANCE WITH THE CURRENT ENERGY REGULATIONS, CALIFORNIA ADMINISTRATIVE CODE, TITLE 24:

ADDRESS: **SHEPP SUBDIVISION, SANTA ROSA, CA LOT #6**

FLOOR:
MANUFACTURER: WESTERN FIBERGLASS

| | | |
|---|---|---|
| **UNDERFLOOR** | THICKNESS/TYPE: 6 1/4" UF BATT | R-VALUE: R-19 |
| | THICKNESS/TYPE: | R-VALUE: |
| | THICKNESS/TYPE: | R-VALUE: |

WALLS:
MANUFACTURER: WESTERN FIBERGLASS

| | | |
|---|---|---|
| **EXTERIOR WALLS** | THICKNESS/TYPE: 3 5/8" UF BATT | R-VALUE: R-13 |
| | THICKNESS/TYPE: | R-VALUE: |
| | THICKNESS/TYPE: | R-VALUE: |

CEILING:
MANUFACTURER: WESTERN FIBERGLASS (BATT) & UNITED FIBERS-CORDEX AFT (BLOW)

| | | |
|---|---|---|
| **SLOPED CEILING** | THICKNESS/TYPE: 10" UF BATT | R-VALUE: R-30 |
| **FLAT CEILING** | THICKNESS/TYPE: 8.5" BLOW | R-VALUE: R-30 |
| | THICKNESS/TYPE: | R-VALUE: |
| | THICKNESS/TYPE: | R-VALUE: |

AIR INFILTRATION SEALANT INSTALLED: YES |X| NO | |

**WEATHERGUARD INSULATION** LIC #640307

BY: Fred Rezzonico DATE 7/14/94
FRED REZZONICO/OWNER
SUB-CONTRACTOR

DATE
BY: _____
AZEVEDO CONSTRUCTION /GENERAL CONTRACTOR ---LIC #

DF

DENNIS FAGENT ASSOCIATES

STRUCTURAL ENGINEERS

1410 NEOTOMAS AVENUE ■ SUITE 106 ■ SANTA ROSA, CA 95405 ■ (707) 523-4934

# STRUCTURAL CALCULATIONS

Shepp III Court Subdivision
Plan ~~#1226~~ (1318)
Santa Rosa, CA

## PREPARED FOR

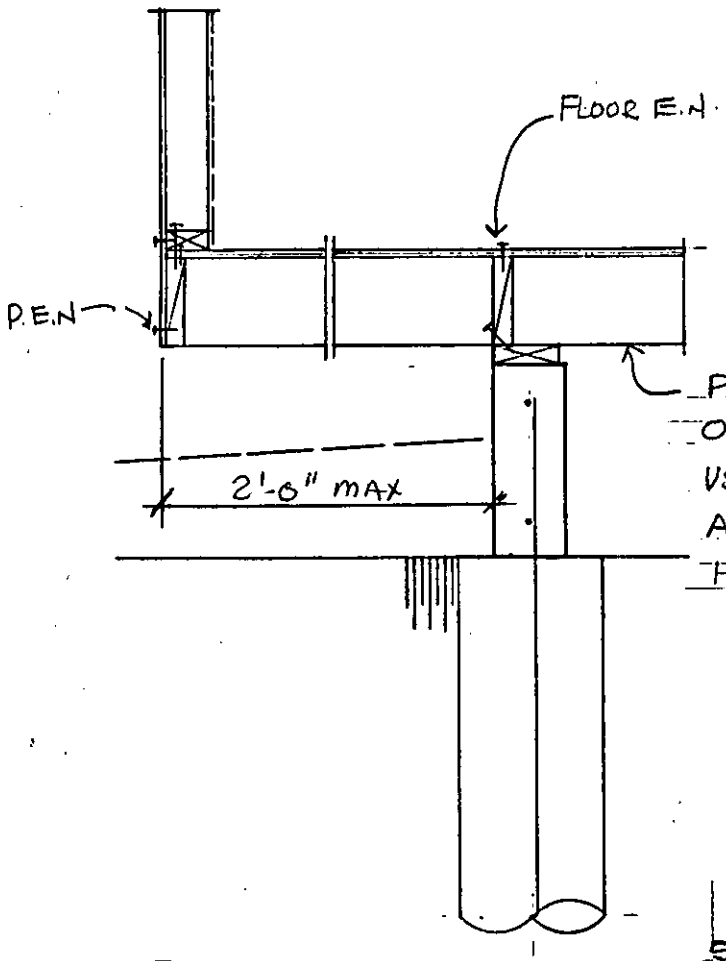
Dutton Enterprises
100 Stony Point Road, Suite 255
Santa Rosa, CA 95401


DF# 92133
December 1, 1992

| TITLE / PROJECT NAME | CKR | JOB # |
|---|---|---|
| SHEPPS III SUBDIVISION | DF | DF 92133 |
| **SECTION** | **ENG** | **PAGE** |
| F.J. FOR 2' CANT. @ REAR. | DF | |

ZUCCO FAGENT ASSOCIATES
STRUCTURAL ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
DENNIS FAGENT
No. S 2777
Exp. 3-31-95
STRUCTURAL
STATE OF CALIFORNIA




PROVIDE 2x8 FJ @ 12" O.C.
OR 2x10 FJ. @ 16" O.C.
USE DBL FJ. BELOW
ALL WINDOW/DOOR
HDR TRIMMERS

SEE (1/S2) OTHERWISE

SK-1

★ APPROVED ★

NOV 29 1993

Sonoma County
Building Inspection Dept.

GIBLIN ASSOCIATES
CONSULTING GEOTECHNICAL ENGINEERS
POST OFFICE BOX 6172 SANTA ROSA, CA 95406
TELEPHONE (707) 528-3078 FACSIMILE (707) 528-2837



91001 SHEPP

# Report
# Soil Investigation
# Shepp III Subdivision
# Santa Rosa, California



Prepared for
Mr. Fred Sheppard and Mr. Mike Dashner
1683 Dutton Avenue
Santa Rosa, CA 95407

MJS 91-100

APN 125-590-57

By
GIBLIN ASSOCIATES
Consulting Geotechnical Engineers



Gregory J. Bowlby
Staff Engineer

Jere A. Giblin
Civil Engineer - No. 19796



Job No. 1260.1
January 20, 1992

subject to severe ground shaking during earthquakes. It will be necessary to design and construct the project in strict accordance with current standards for earthquake resistant construction.

## RECOMMENDATIONS

### Site Grading

The site should be cleared of existing obstructions, debris, and brush. Designated trees should be removed and the roots excavated. The resultant voids should be backfilled with compacted soil as subsequently described. Dense growths of grass and vegetation should be removed from the site. The areas to be graded then should be stripped of the upper few inches of soil containing root growth and organic matter. We anticipate that the required depth of stripping will average about three inches. The strippings should be removed from the site or stockpiled for reuse as topsoil.

Wells, septic tanks, or other voids encountered or created should be removed, filled with compacted soil or compacted granular material, or capped with concrete, as determined by the soil engineer. Existing leach fields, if encountered within planned building areas, should be removed and replaced with properly compacted fill.

After stripping, excavation can be performed as necessary. We anticipate that with the exception of organic matter, rubbish, debris and rocks or hard fragments larger than four inches in

diameter, the excavated material will be suitable for reuse as compacted fill.

Areas to receive compacted fill should be prepared by scarifying the natural soil to a depth of at least six inches, moisture conditioning to at least two percentage points wet of optimum and compacting to at least 90 percent relative compaction.* Approved fill materials then should be spread in approximately eight-inch thick loose lifts, moisture conditioned to slightly above optimum (at least two percent for on-site clayey soils), and compacted to at least 90 percent relative compaction.

Imported fill, if required, should be approved by a soil engineer prior to use. Imported fill should be nonexpansive and have a Plasticity Index of 15 or less. The imported fill material should be free of organic matter and rocks or hard fragments larger than four inches in diameter.

Finished slopes should be trimmed to expose dense material and should be no steeper than two horizontal to one vertical (2:1). Slopes over three feet high should be planted with fast growing, deep-rooted ground cover to reduce erosion.

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* Relative compaction refers to the in-place dry density of fill expressed as a percentage of maximum dry density of the same material determined in accordance with the ASTM D 1557-78 laboratory compaction test procedure.

Foundations

Drilled piers should be at least 10 inches in diameter and seven feet deep. The portion of the piers extending more than two and one-half feet beneath the surface can be designed to impose 700 pounds per square foot (psf) in skin friction. End bearing should be neglected because of the difficulty of cleaning out small diameter pier holes and the uncertainty of mobilizing end bearing and skin friction simultaneously. Where planned fills in building areas exceed 18 inches and weak, porous, upper soils are not recompacted, the piers should be deepened an amount equal to the thickness of fill over 18 inches.

To prevent the wet concrete from settling, the pier holes should contain not more than three inches of slough. The slough may need to be tamped prior to concrete placement, as determined by the soil engineer.

Piers beneath perimeter and bearing walls should be interconnected with grade beams designed to support the structural loads. In lieu of grade beams under bearing walls, the framing must be sufficient to carry the loads as required by the Uniform Building Code. Piers should be reinforced for their full depth with at least one No. 4 reinforcing bar. The pier reinforcing should extend into the grade beams.

Although no caving soils or ground-water were encountered within the anticipated pier depths during our exploration, such conditions could be encountered during drilled pier installations. If caving soils or perched ground-water are encountered,

it may be necessary to case the holes, dewater the holes or place concrete by an approved pumping or tremmie method.

Because of the presence of very stiff to hard soils with gravel or rock fragments at the site, difficult drilling conditions could be encountered. Such soil conditions can offer significant resistance to typical light-weight pier drilling equipment. Possible reduced production rates or the need for heavier equipment should be recognized.

Slab-on-Grade

Concrete slabs-on-grade can be used in garages but should not, in general, be used within living areas. Slab-on-grade subgrade should be smooth, firm and uniform. The subgrade soils should be thoroughly moisture conditioned prior to concrete placement. Slabs should be underlain with a capillary moisture break and cushion layer consisting of at least four inches of clean, free-draining crushed rock or gravel. The crushed rock or gravel should be at least 1/4-inch and no larger than 3/4-inch in size. Moisture vapor will condense on the underside of slabs. Where passage of moisture vapor through the slabs would be detrimental, an impermeable moisture vapor barrier should be provided between the drainrock and the slabs. Two inches of clean, moist sand should be placed on top of a plastic membrane, if used, to aid in slab curing and help provide puncture protection.

Slabs should be at least four inches thick, reinforced with at least wire mesh to reduce cracking, and be carefully separated from foundations. Felt paper, expansion joint material or other positive and low friction separations should be used.

Roadway Pavement

For planning purposes, we assume that the street in the subdivision will be constructed of asphalt concrete and aggregate base materials.

The Expansion Index test results indicate that the near-surface soils tested have an Expansion Index of 36 and would be classified as low in activity. The City of Santa Rosa requires a moisture vapor barrier for new street construction on soils having an Expansion Index value of 50 or higher.

The asphalt concrete and aggregate base materials used should conform to the quality requirements of the current edition of the Caltrans Standard Specifications and requirements of the City of Santa Rosa.

Prior to placement of the aggregate base, the utility trench backfills should be properly compacted. The subgrade soils should be uniformly moisture conditioned to slightly above optimum. The above-optimum moisture content should be maintained until covered with aggregate base. After moisture conditioning, the upper six inches of subgrade soils should be uniformly compacted to at least 95 percent to provide a firm and nonyielding surface.

Aggregate base material should be placed in layers, moisture conditioned and compacted to at least 95 percent. Completed base work should also provide a firm and nonyielding surface.

Soil Engineering Drainage

Ponding water will cause softening of the site soils and would be detrimental to foundations. It is important that lots be sloped to drain away from foundations. A gradient of at least one-half inch per foot extending at least four feet out should be maintained. The roofs should be provided with gutters, and the downspouts should discharge onto paved areas or splash blocks draining at least 30 inches away from foundations.

Water should be intercepted above slopes and diverted into drainage facilities. With a drilled pier and grade beam system, there is a potential for outside water to seep under grade beams and collect in under-floor areas. Careful attention to fine (finish) grading around houses should be provided. No loose or poorly compacted materials should be allowed adjacent to grade beams, and the installation of under-floor drainage inlets and pipelines should be considered.

Supplemental Geotechnical Services

We should review final grading and foundation plans for conformance with the intent of our recommendations. During site grading operations, the soil engineer should provide intermittent observation and testing to determine the conditions encountered

and modify our recommendations, if warranted. Field and laboratory tests should be performed to ascertain that the specified moisture content and degree of compaction are being attained.

The soil engineer should observe pier drilling operations to verify that the conditions are as anticipated and to modify our recommendations, if warranted.

## LIMITATIONS

We have performed the investigation and prepared this report in accordance with generally accepted standards of the soil engineering profession. No other warranty, neither express nor implied, is given.

Subsurface conditions are complex and may differ from those indicated by surface features or encountered at test boring locations. Therefore, variations in subsurface conditions not indicated on the logs could be encountered.

Supplemental services as recommended herein are in addition to this investigation and are charged for on an hourly basis in accordance with our Standard Schedule of Charges. Such supplemental services are performed on an as-requested basis, and we can accept no responsibility for items we are not notified to check nor for use or interpretation by others of the information contained herein.

If the project is revised, or if conditions different from those described in this report are encountered during construc-

# NOTES

1. **IMPROVEMENT DRAWINGS:** For storm drainage, utilities, street construction, curb & gutter, sidewalk, perimeter fencing or retaining walls, and any other sitework required as part of the subdivision refer to the improvement plans. Any above noted information shown on this site plan is for plancheck reference only, and is not part of this permit application or scope of work.
2. **MAP:** Lot dimensions, setbacks, and easements are based on the subdivision map(s).
3. **SOIL REPORT:** Refer to the Soil Report for site grading requirements.
4. **SOIL ENGINEER:** Soil engineer shall observe and test fill placement, and observe pier holes prior to installation of foundation.
5. **FINISH GRADING:** Slope finish grade away from the foundation at 1/4"/ft. min. for a minimum of 4'.
6. **SUBFLOOR AREA:** Provide positive drainage from all parts of the subfloor area.
7. **CURB CUTS:** Construct curb cuts per city standards.
8. LIMIT SITE GRADING TO DRIVEWAY, GARAGE & UNDERFLOOR AREA
9. REMOVE EXCESS DIRT TO AN APPROVED SITE

**ADDRESS:**

**SUBDIVISION:** SHEPP SUB.

**LOT NO.:** 4

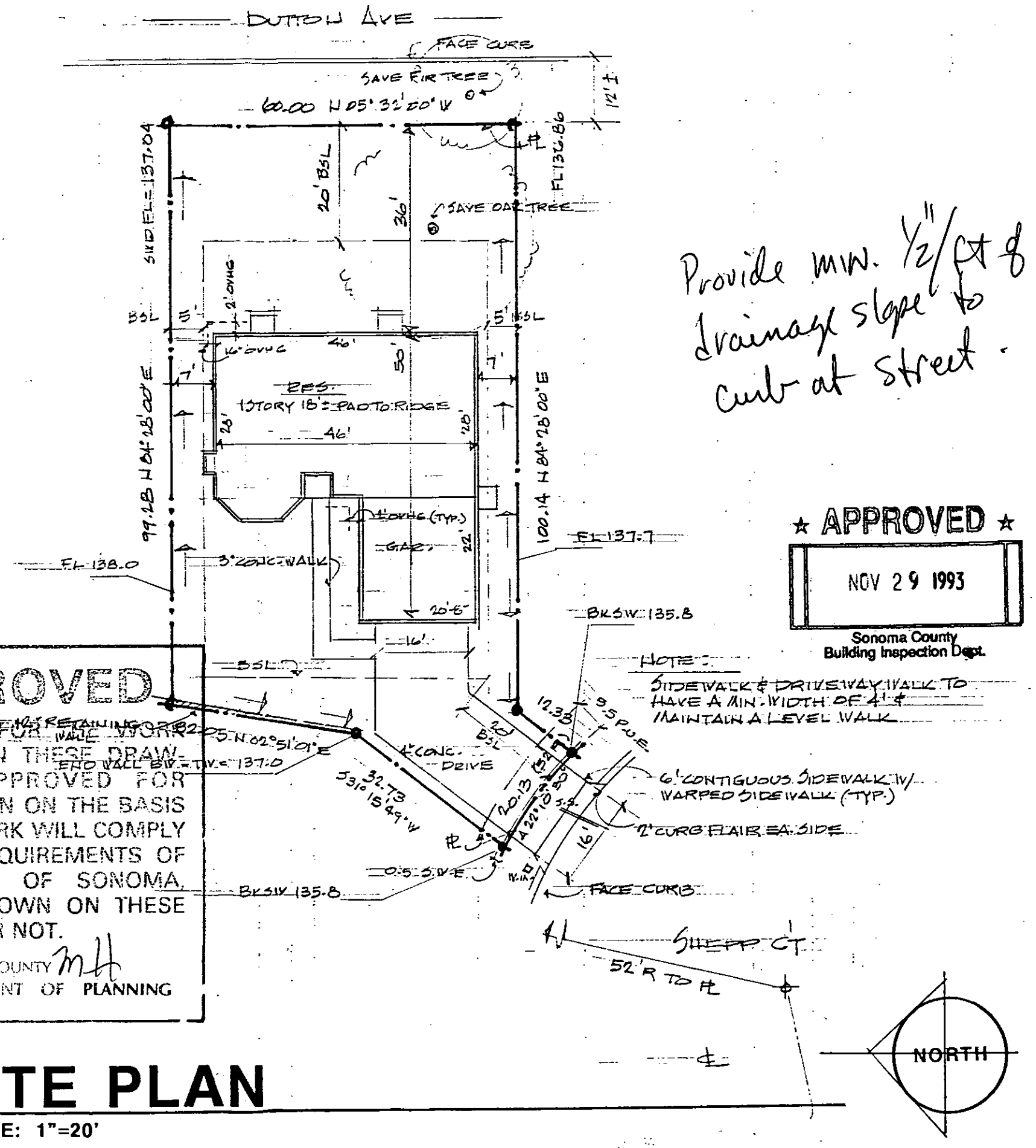
**FLOOR PLAN:**
1318 EL. "A"

**BUILDING ELEVATIONS**
Pad grade= 138.2
Top of subfloor= 140.5
Top of garage slab= 139.0
(@ front of gar.)

**FINAL MAP:**
FINITE ENGINEERING

**IMPROVEMENT PLANS:**
FINITE ENGINEERING

**SOIL REPORT:**
GIBLIN ASSOC. 1/20/92
JOB # 1260-1




Provide min. 1/2"/ft & drainage slope to curb at street.

## APPROVED

THE PERMIT FOR THE WORK INDICATED ON THESE DRAWINGS IS APPROVED FOR CONSTRUCTION ON THE BASIS THAT ALL WORK WILL COMPLY WITH ALL REQUIREMENTS OF THE COUNTY OF SONOMA, WHETHER SHOWN ON THESE DRAWINGS OR NOT.

SONOMA COUNTY DEPARTMENT OF PLANNING

## ★ APPROVED ★

NOV 29 1993

Sonoma County Building Inspection Dept.

# SITE PLAN

**SCALE: 1"=20'**

DESIGN BY:
MICHAEL CRAIGIE
5675 ST. HELENA RD. S.R. 95404 PH. 538-7361

RESIDENCE :
SHEPP SUB.

JOB NO.: 92027 DATE: 8/26/93