



DEPARTMENT OF PLANNING AND BUILDING

THIS IS A NEW PROJECT REFERRAL

DATE: 5/22/2013

TO: _____

FROM: Xzandrea Fowler, Coastal Team

PROJECT DESCRIPTION: DRC2012-00098 LEWIS- Minor Use Permit for a 306 square foot lower level deck. Site located off Berwick Drive in Cambria. APN: 023-062-011.

Return this letter with your comments attached no later than: 14 days from receipt of this referral. CACs please respond within 60 days. Thank you.

PART 1 - IS THE ATTACHED INFORMATION ADEQUATE TO COMPLETE YOUR REVIEW?

- YES (Please go on to PART II.)
- NO (Call me ASAP to discuss what else you need. We have only 10 days in which we must obtain comments from outside agencies.)

PART II - ARE THERE SIGNIFICANT CONCERNS, PROBLEMS OR IMPACTS IN YOUR AREA OF REVIEW?

- YES (Please describe impacts, along with recommended mitigation measures to reduce the impacts to less-than-significant levels, and attach to this letter)
- NO (Please go on to PART III)

PART III - INDICATE YOUR RECOMMENDATION FOR FINAL ACTION.

Please attach any conditions of approval you recommend to be incorporated into the project's approval, or state reasons for recommending denial.

IF YOU HAVE "NO COMMENT," PLEASE SO INDICATE, OR CALL.

Date

Name

Phone

GENERAL APPLICATION FORM

San Luis Obispo County Department of Planning and Building

File No _____

DRC2012-00098

LEWIS MICHAEL S

APPLICATION TYPE - CHECK ALL THAT APPLY

- Emergency Permit
- Site Plan
- Conditional Use Permit/Development Plan
- Curb, Gutter & Sidewalk Waiver
- Tree Permit
- Minor Use Permit

MINOR USE PERMIT
 MUP FOR 306 SQ FT LOWER LEVEL DECK
 NC/ CAMB XDF
 AS LCP RSF TH

APPLICANT INFORMATION

Check box for contact person assigned to this project
 Landowner Name _____ Daytime Phone _____
 Mailing Address _____ Zip Code _____
 Email Address: _____

Applicant Name MICHAEL S LEWIS Daytime Phone 714 563 8300
 Mailing Address 691 PARTRIDGE DR BREA CA Zip Code 92823
 Email Address: _____

Agent Name MATTHEW JOCHIM Daytime Phone 805 927 5952
 Mailing Address 2424 LEOVA DR CAMBRIA CA Zip Code 93428
 Email Address: _____

PROPERTY INFORMATION

Total Size of Site: 3500 Assessor Parcel Number(s): 023 062 011
 Legal Description: _____
 Address of the project (if known): 2056 BERWICK DR CAMBRIA CA 93428
 Directions to the site (including gate codes) - describe first with name of road providing primary access to the site, then nearest roads, landmarks, etc.: _____

Describe current uses, existing structures, and other improvements and vegetation on the property:
SINGLE FAMILY RESIDENCE - FLOWERS/LANDSCAPING/BUSHES

PROPOSED PROJECT

Describe the proposed project (inc. sq. ft. of all buildings): 306 SQ FT LOWER LEVEL DECK

LEGAL DECLARATION

I, the owner of record of this property, have completed this form accurately and declare that all statements here are true. I do hereby grant official representatives of the county authorization to inspect the subject property.

Property owner signature Michael Lewis Date 5/1/13

FOR STAFF USE ONLY
 Reason for Land Use Permit: _____

CONSENT OF LANDOWNER

San Luis Obispo County Department of Planning and Building

File No _____

I (we) the undersigned owner of record of the fee interest in the parcel of land located at (print address):
2056 BERWICK DR CAMBRIA CA, identified as Assessor Parcel Number
023062011, for which a construction permit, land use permit, land
division, general plan or ordinance amendment, or LAFCo application referral is being filed with the county
requesting an approval for: DECK (specify type of project, for example:
addition to a single family residence; or general plan amendment), do hereby certify that:

1. Such application may be filed and processed with my (our) full consent, and that I (we) have authorized the agent named below to act as my (our) agent in all contacts with the county and to sign for all necessary permits in connection with this matter.
2. I (we) hereby grant consent to the County of San Luis Obispo, its officers, agents, employees, independent contractors, consultants, sub-consultants and their officers, agents, and employees to enter the property identified above to conduct any and all surveys and inspections that are considered appropriate by the inspecting person or entity to process this application. This consent also extends to governmental entities other than the county, their officers, agencies, employees, independent contractors, consultants, sub-consultants, and their officers agents or employees if the other governmental entities are providing review, inspections and surveys to assist the county in processing this application. This consent will expire upon completion of the project.
3. If prior notice is required for an entry to survey or inspect the property. Please contact:
Print Name: _____
Daytime Telephone Number: _____
4. I (we) hereby give notice of the following concealed or unconcealed dangerous conditions on the property _____

PERSON OR ENTITY GRANTING CONSENT:

Print Name: MICHAEL S LEWIS
Print Address: 2056 BERWICK DR CAMBRIA CA 93428
Daytime Telephone Number: 714 563 8300 WORK #
Signature of landowner: Michael Lewis Date: 5/1/13

AUTHORIZED AGENT:

Print Name: MATTHEW JOCHIM
Print Address: 2424 LEGNA DR CAMBRIA CA 93428
Daytime Telephone Number: 805 929 8952
Signature of authorized agent: [Signature] Date: 05/1/13

LAND USE PERMIT APPLICATION

San Luis Obispo County Department of Planning and Building

File No _____

Type of project: Commercial Industrial Residential Recreational Other

Describe any modifications/adjustments from ordinance needed and the reason for the request (if applicable): BUILDING DECK

Describe existing and future access to the proposed project site: SINGLE FAMILY RESIDENCE HOME
NEW DECK WILL BE ACCESSIBLE FROM BACK YARD + HOUSE

Surrounding parcel ownership: Do you own adjacent property? Yes No
If yes, what is the acreage of all property you own that surrounds the project site? _____

Surrounding land use: What are the uses of the land surrounding your property (when applicable, please specify all agricultural uses):

North: SFR South: SFR
East: SFR West: SFR

For all projects, answer the following:

Square footage and percentage of the total site (approximately) that will be used for the following:

Buildings: _____ sq. feet _____% Landscaping: _____ sq. feet _____%

Paving: _____ sq. feet _____% Other (specify) _____

Total area of all paving and structures: _____ sq. feet acres

Total area of grading or removal of ground cover: _____ sq. feet acres

Number of parking spaces proposed: _____ Height of tallest structure: _____

Number of trees to be removed: _____ Type: _____

Setbacks: Front _____ Right _____ Left _____ Back _____

Proposed water source: On-site well Shared well Other _____

Community System - List the agency or company responsible for provision: _____

Do you have a valid will-serve letter? Yes No (If yes, please submit copy)

Proposed sewage disposal: Individual on-site system Other _____

Community System - List the agency or company responsible for sewage disposal: _____

Do you have a valid will-serve letter? Yes No (If yes, please submit copy)

Fire Agency: List the agency responsible for fire protection: CFD

For commercial/industrial projects answer the following:

Total outdoor use area: _____ sq. feet acres

Total floor area of all structures including upper stories: _____ sq. feet

For residential projects, answer the following:

Number of residential units: _____ Number of bedrooms per unit: _____

Total floor area of all structures including upper stories, but not garages and carports: _____

Total of area of the lot(s) minus building footprint and parking spaces: _____

ENVIRONMENTAL DESCRIPTION FORM

San Luis Obispo County Department of Planning and Building

File No _____

The California Environmental Quality Act (CEQA) requires all state and local agencies to consider and mitigate environmental impacts for their own actions and when permitting private projects. The Act also requires that an environmental impact report (EIR) be prepared for all actions that may significantly affect the quality of the environment. The information you provide on this form will help the Department of Planning and Building determine whether or not your project will significantly affect the quality of the environment.

To ensure that your environmental review is completed as quickly as possible, please remember to:

- a. Answer **ALL** of the questions as accurately and completely as possible.
- b. Include any additional information or explanations where you believe it would be helpful or where required. Include additional pages if needed.
- c. If you are requesting a land division or a re-zoning, be sure to include complete information about future development that may result from the proposed land division or rezoning.
- d. Include references to any reports or studies you are aware of that might be relevant to the questions asked or the answers you provide.

Should a determination be made that the information is inaccurate or insufficient, you will be required to submit additional information upon request.

Physical Site Characteristic Information

Your site plan will also need to show the information requested here:

1. Describe the topography of the site:
Level to gently rolling, 0-10% slopes: 3500 sq ft acres
Moderate slopes of 10-30%: _____ acres
Steep slopes over 30%: _____ acres
2. Are there any springs, streams, lakes or marshes on or near the site? Yes No
If yes, please describe: _____
3. Are there any flooding problems on the site or in the surrounding area? Yes No
If yes, please describe: _____
4. Has a drainage plan been prepared? Yes No
If yes, please include with application.
5. Has there been any grading or earthwork on the project site? Yes No
If yes, please explain: _____
6. Has a grading plan been prepared? Yes No
If yes, please include with application.
7. Are there any sewer ponds/waste disposal sites on/adjacent to the project? Yes No
8. Is a railroad or highway within 300 feet of your project site? Yes No
9. Can the proposed project be seen from surrounding public roads? Yes No
If yes, please list: _____

Water Supply Information

1. What type of water supply is proposed?
 Individual well Shared well Community water system
2. What is the proposed use of the water?
 Residential Agricultural - Explain _____
 Commercial/Office - Explain _____
 Industrial – Explain _____
3. What is the expected daily water demand associated with the project? 0
4. How many service connections will be required? N/A
5. Do operable water facilities exist on the site?
 Yes No If yes, please describe: COMMUNITY WATER SYSTEM
6. Has there been a sustained yield test on proposed or existing wells?
 Yes No If yes, please attach.
7. Does water meet the Health Agency's quality requirements?
Bacteriological? Yes No
Chemical? Yes No
Physical Yes No
Water analysis report submitted? Yes No
8. Please check if any of the following have been completed on the subject property and/or submitted to County Environmental Health.
 Well Driller's Letter Water Quality Analysis OK or Problems
 Will Serve Letter Pump Test _____ Hours _____ G.P.M.
 Surrounding Well Logs Hydrologic Study Other _____

Please attach any letters or documents to verify that water is available for the proposed project.

Sewage Disposal Information

If an on-site (individual) subsurface sewage disposal system will be used:

1. Has an engineered percolation test been accomplished?
 Yes No If yes, please attach a copy.
2. What is the distance from proposed leach field to any neighboring water wells? _____ feet
3. Will subsurface drainage result in the possibility of effluent reappearing in surface water or on adjacent lands, due to steep slopes, impervious soil layers or other existing conditions?
 Yes No
4. Has a piezometer test been completed?
 Yes No
5. Will a Waste Discharge Permit from the Regional Water Quality Control Board be required?
 Yes No (a waste discharge permit is typically needed when you exceed 2,500 gallons per day)

If a community sewage disposal system is to be used:

1. Is this project to be connected to an existing sewer line? Yes No
Distance to nearest sewer line: _____ Location of connection: _____
2. What is the amount of proposed flow? _____ G.P.D.
3. Does the existing collection treatment and disposal system have adequate additional capacity to accept the proposed flow? Yes No

Solid Waste Information

1. What type of solid waste will be generated by the project?
 Domestic Industrial Agricultural Other, please explain? N/A
2. Name of Solid Waste Disposal Company: _____
3. Where is the waste disposal storage in relation to buildings? _____
4. Does your project design include an area for collecting recyclable materials and/or composting materials? Yes No

Community Service Information

1. Name of School District: _____
2. Location of nearest police station: _____
3. Location of nearest fire station: _____
4. Location of nearest public transit stop: _____
5. Are services (grocery/other shopping) within walking distance of the project? Yes No
If yes, what is the distance? _____ feet/miles

Historic and Archeological Information

1. Please describe the historic use of the property:

2. Are you aware of the presence of any historic, cultural or archaeological materials on the project site or in the vicinity? Yes No
If yes, please describe: _____
3. Has an archaeological surface survey been done for the project site? Yes No
If yes, please include two copies of the report with the application.

Commercial/Industrial Project Information

Only complete this section if you are proposing a commercial or industrial project or zoning change.

1. Days of Operation: _____ Hours of Operation: _____
2. How many people will this project employ? _____
3. Will employees work in shifts? Yes No
If yes, please identify the shift times and number of employees for each shift _____
4. Will this project produce any emissions (i.e., gasses, smoke, dust, odors, fumes, vapors)?
 Yes No If yes, please explain: _____
5. Will this project increase the noise level in the immediate vicinity? Yes No
If yes, please explain: _____
(If loud equipment is proposed, please submit manufacturers estimate on noise output.)
6. What type of industrial waste materials will result from the project? Explain in detail: _____
7. Will hazardous products be used or stored on-site? Yes No
If yes, please describe in detail: _____
8. Has a traffic study been prepared? Yes No If yes, please attach a copy.

9. Please estimate the number of employees, customers and other project-related traffic trips to or from the project: Between 7:00 - 9:00 a.m. _____ Between 4:00 to 6:00 p.m. _____
10. Are you proposing any special measures (carpooling, public transit, telecommuting) to reduce automobile trips by employees Yes No
If yes, please specify what you are proposing: _____
11. Are you aware of any potentially problematic roadway conditions that may exist or result from the proposed project, such as poor sight distance at access points, connecting with the public road?
 Yes No If yes, please describe: _____

Agricultural Information

Only complete this section if your site is: 1) Within the Agricultural land use category, or 2) currently in agricultural production.

1. Is the site currently in Agricultural Preserve (Williamson Act)? Yes No
2. If yes, is the site currently under land conservation contract? Yes No
3. If your land is currently vacant or in agricultural production, are there any restrictions on the crop productivity of the land? That is, are there any reasons (i.e., poor soil, steep slopes) the land cannot support a profitable agricultural crop? Please explain in detail: _____

Special Project Information

1. Describe any amenities included in the project, such as park areas, open spaces, common recreation facilities, etc.(these also need to be shown on your site plan): _____

2. Will the development occur in phases? Yes No
If yes describe: _____
3. Do you have any plans for future additions, expansion or further activity related to or connected with this proposal? Yes No If yes, explain: _____

4. Are there any proposed or existing deed restrictions? Yes No
If yes, please describe: _____

Energy Conservation Information

1. Describe any special energy conservation measures or building materials that will be incorporated into your project *: N/A

*The county's Building Energy Efficient Structures (BEES) program can reduce your construction permit fees. Your building must exceed the California State Energy Standards (Title 24) in order to qualify for this program. If you are interested in more information, please contact the Building Services Division of the Department of Planning and Building at (805) 781-5600.

Environmental Information

1. List any mitigation measures that you propose to lessen the impacts associated with your project:

2. Are you aware of any unique, rare or endangered species (vegetation or wildlife) associated with the project site? Yes No
If yes, please list: _____
3. Are you aware of any previous environmental determinations for all or portions of this property? Yes No
If yes, please describe and provide "ED" number(s): _____

Other Related Permits

1. List all permits, licenses or government approvals that will be required for your project (federal, state and local): CCSD _____

(If you are unsure if additional permits are required from other agencies, please ask a member of the Planning Department staff currently assigned in either Current Planning or the Environmental Division.)

If your property is near an agricultural operation in the unincorporated area of the County which satisfies the above requirements, you may at times be subject to one or more inconveniences and/or discomfort arising from that operation. Such inconveniences may include (depending upon the type of agricultural operation protected), but are not necessarily limited to, the following: noise, odors, fumes, dust, legal pesticide use, fertilizers, smoke, insects, farm personnel and truck traffic, visual impacts, night time lighting, operation of machinery and the storage, warehousing and processing of agricultural products or other inconveniences or discomforts associated with the protected agricultural operations. For additional information pertaining to this disclosure and the Right to Farm Ordinance, or concerns with an agricultural operation, please contact the San Luis Obispo County Agricultural Commissioner's Office.

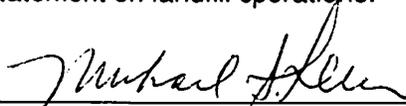
HAZARDOUS WASTE AND SUBSTANCE SITES AND LANDFILL DISCLOSURE - Please verify whether your project is on the Known Hazardous Waste and Substances Sites List pursuant to AB 3750 and if you are within ½ mile of certain landfills (see back of sheet).

PLEASE COMPLETE AND SIGN BELOW

I acknowledge that I have read and understand the information and policy and detailed above: (1) Time Limits for processing and (2) Public Notice Distribution requirements and (3) the Right to Farm Disclosure.

AND

I acknowledge that I have reviewed the list of Identified Hazardous Waste and Substances Sites List and the Landfill Disclosure on the back of this form and find the following: (1) The site is not shown on the list of Identified Hazardous Waste and Substances Site; (2) The site is not shown on the list dated April 1998, or any later list published by the State Office of Planning and Research and (3) I have read the disclosure statement on landfill operations.



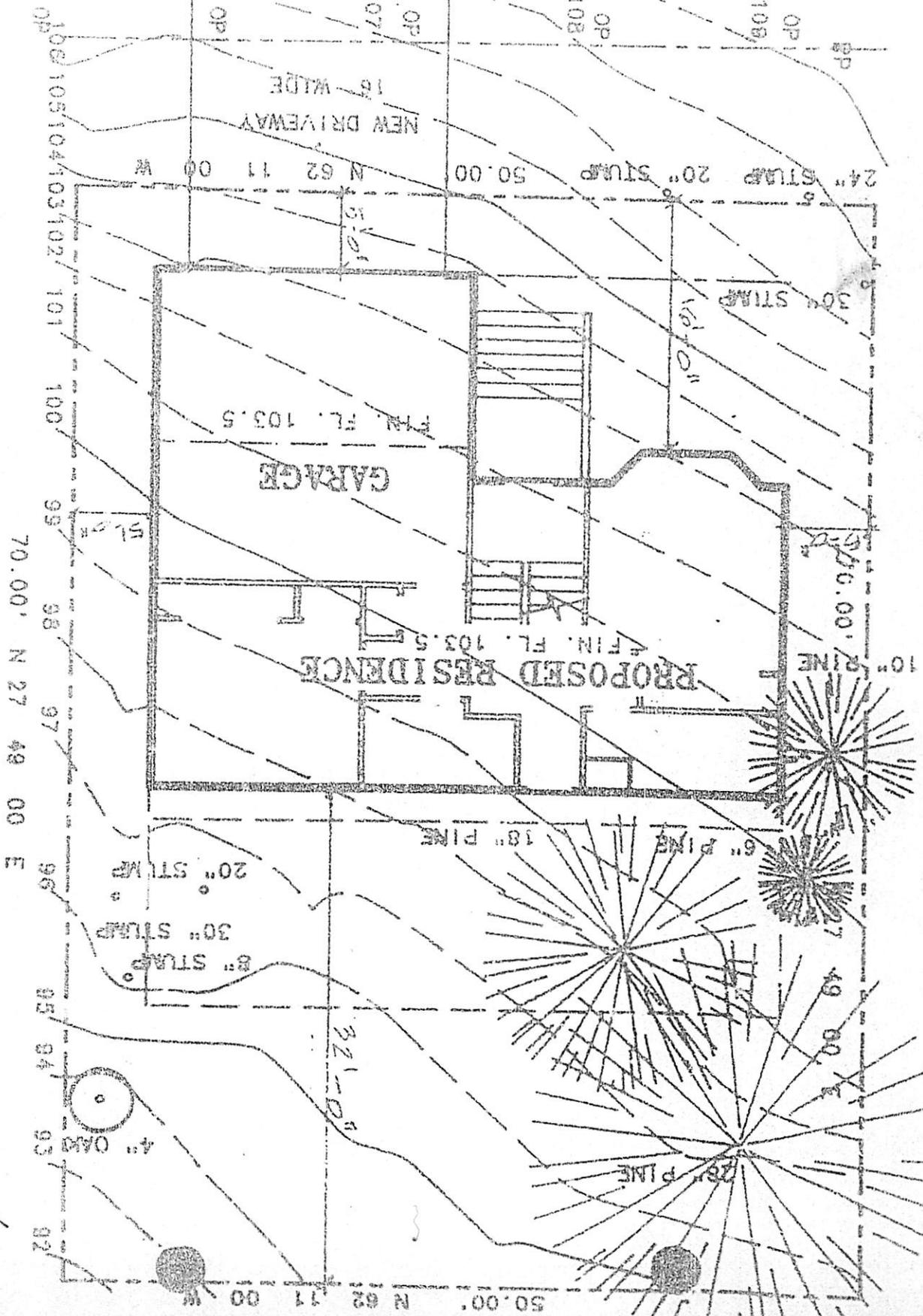
Signature

5/1/13

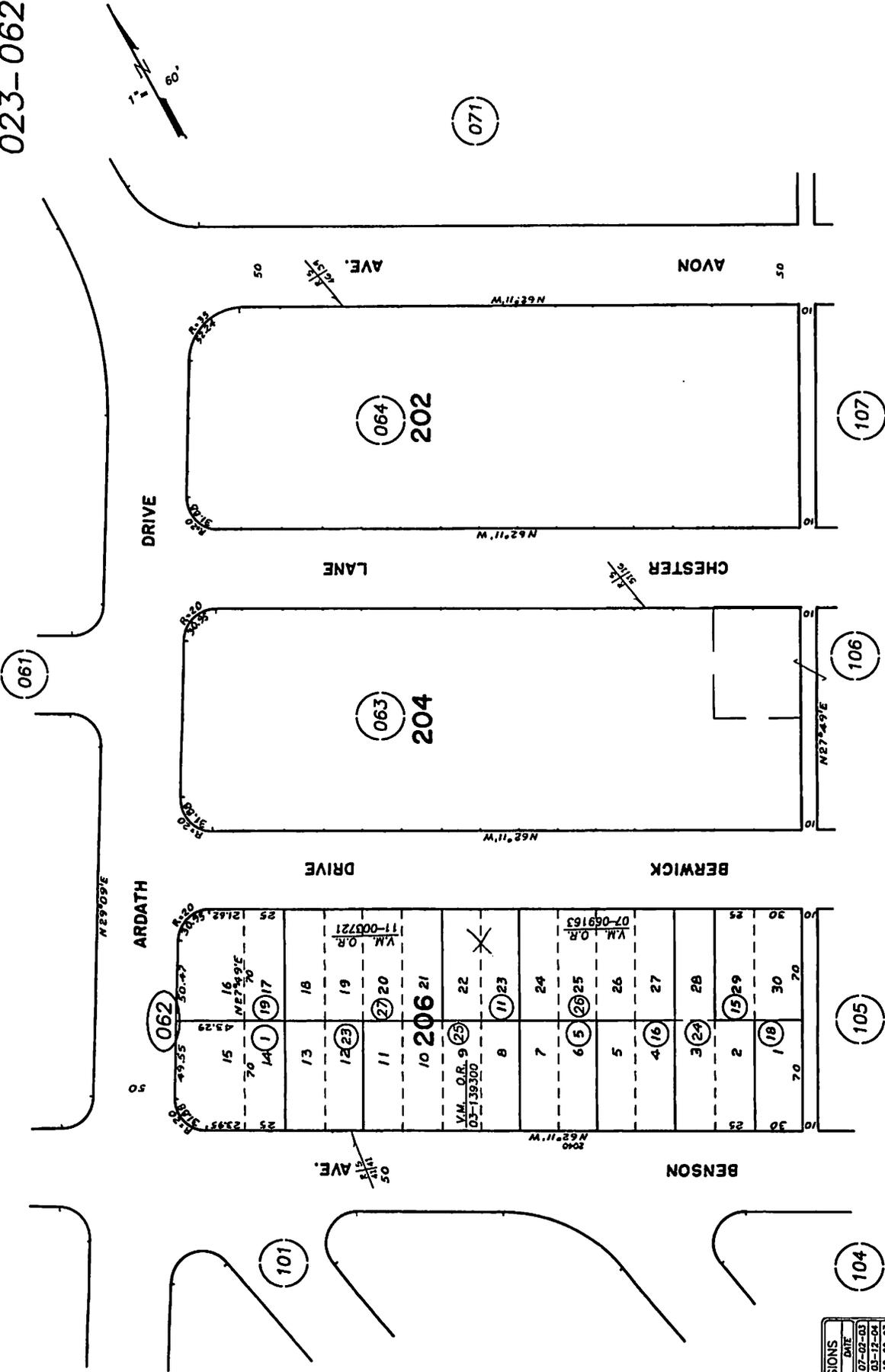
Date

Print Name: MICHAEL S LEWIS

EDGE OF ROAD



023-062

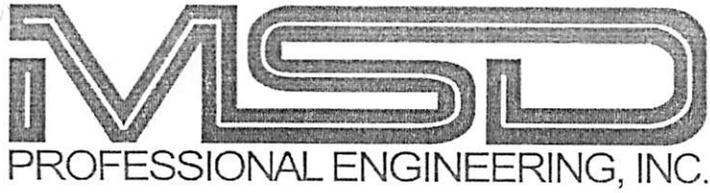


CAMBRIA
ASSESSOR'S MAP, COUNTY OF
SAN LUIS OBISPO, CA.
BOOK 023, PAGE 062

TRACT NO. 8, R.M. Bk. 5 . Pg. 21

REVISIONS	LS.	DATE
	AW	07-07-03
	04-391	03-17-04
	08-308	12-28-07
	12-073	05-28-11

30 0 60 120
 L7 THIS MAP IS PREPARED FOR
 03-08-99 ASSESSMENT PURPOSES ONLY.



4555 El Camino Real, Ste. H
Atascadero, CA 93422
(805) 462-2282

Structural Design Calculations

For

Proposed Deck Addition

2056 Burwick Drive
Cambria, CA 93428

April 11, 2013
Report #: 0413-0275

Prepared For

Mike Lewis



April 11, 2013

Mike Lewis
2056 Burwick Drive
Cambria, CA 93428

RE: Single Family Residence – Deck Addition Project
2056 Burwick Drive
Cambria, California

Attn: County of San Luis Obispo Building Department

The following design calculations and structural construction plans have been provided to allow for additional deck area to be added to the existing framing and foundation system supporting an existing upper-level free-draining wood-framed deck connected to the existing two-story residence.

Currently, the existing engineered deck serves the upper level of the residence and is supported on braced 6x6 posts that extend to foundation pier pads. The existing deck finished floor elevation is approximately 15 feet above grade and the proposed additional deck area will add beams and joists to the existing posts so that the new deck area finished floor will set at approximately 5 feet above grade.

The proposed additional deck area provides significant improvements and bracing to the lateral stability of the existing raised deck, and since the improvements are added near the base of the existing posts, no new lateral analysis is required.

Additionally, the attached calculations show that no new foundation elements are required to support the proposed deck addition.

If you have any questions regarding this letter please do not hesitate to contact my office at (805) 462-2282.

Respectfully Submitted,
MSD Professional Engineering, Inc.



Nicholas A. McClure, P.E.
Principal Engineer

Description: Structural Design for a Residential Deck Addition

Location: 2056 Berwick Drive, Cambria, California

The following engineering calculations apply to the above listed project and location only.

NOTE: The project contractor should verify on-site, all the conditions and dimensions provided for within these calculations and the associated project plans. The engineer of record is to be notified of any discrepancies prior to proceeding with work.

Governing Code and Design Specifications:

2010 California Building Code	Wind ...85 MPH Exposure C
ASCE7	S.D.C. = D
ACI 530	
Lumber and Timber	National Design Specifications (NDS) Wood Structural Data (NFPA)
Bolts and Nails	National Design Specifications (NDS)
Concrete	Reinforced Concrete Design Handbook (ACI) Ultimate Strength Design Handbook (ACI)
Masonry	Masonry Design Manual (MIA)
Steel	Manual of Steel Construction (AISC)

(All work is to comply with current 2010 CBC and local and state ordinances)

Minimum Material Design Specifications:

Lumber (sawn)	DF-L WCLIB
2x & 4x	#2 Joists/Rafters/Headers/ Beams/Posts (U.O.N.)
6x	#1 Rafters/Headers/Beams (U.O.N.)
Glu-Lam Beams (GLB)	DF-L 24F-V4 (U.O.N.) F _b = 2400 psi E = 1800 ksi
Laminated Veneer Lumber (LVL)	DF-L F _b = 2600 psi E = 1900 ksi
Plywood Sheathing	"Panels" shall be plywood (group 1 or 2) APA performance rated panels conforming to PS 1-95
Structural Steel	ASTM A-36 (compact) : Angles, Sections, Plates ASTM A-53 : Pipes ASTM A-500 : Grade 'B' tubes
Hot Dipped Galvanized (All Hardware)	ASTM A-123 and ASTM A-153
Welding	AWS D1.1 E70xx Electrodes
Bolts	Anchor Bolts : ASTM A-36 or better Machine Bolts : ASTM A-307 or better
Reinforcing Steel	ASTM A-615 Grade 40 : # 4 bars and smaller Grade 60 : # 5 bars and larger
Epoxy (Rebar to Conc.)	ASTM C-881 Type 3 Grade 3
Non-Shrink Grout	MinWax Por-Rok or approved equal

Soil and Pad Preparation Specifications:

1. Minimum assumed soils bearing (DL + LL) to be 1500 PSF
2. Soils Report:
See attached calculations for analysis to show that existing foundations are sufficient to support additional deck loads.

Engineer of record to field verify assumed foundation and bearing conditions during construction of the new deck area.

Timber Framing Specifications:

1. All framing lumber, timber, and plywood to be grade stamped with a stamp of the association under whose grading rules it was produced.
2. Lumber to be of the following minimums (conforming to 2010 CBC, Section 2303) with a maximum moisture content not to exceed 19 % :
 - roof rafters, ceiling joists, floor joists, bearing walls & headers ... DF-L # 2
 - non-bearing studs, plates and blockingStandard grade DF
 - posts, beams DF-L # 2
 - lumber in contact with concrete or masonryPressure treated DF-L # 1
3. All fasteners less than 1/2" diameter and all hardware in contact with pressure treated lumber shall be hot dipped galvanized.
4. Refer to 2010 CBC Table 2304.9.1 for minimum nailing requirements.
5. 2 x solid blocking shall be placed between joists, rafter, and trusses at both ends and all supports. Provide bridging or blocking at intervals of 8'-0" at floor joists.
6. All double members to be nailed together with (2) rows or 16d nails @ 12" o.c. staggered.
7. All metal framing connectors referenced in the calculations are "Simpson Strong Tie." Substitutions of equal (approved) connectors are acceptable with the written permission of the Engineer. Framing anchors shall be nailed or bolted to their full capacity (all holes to be filled) with fasteners by "Simpson Strong Tie" specifications.
8. All bolts shall conform to ASTM 307 (U.O.N.). Holes for bolts shall be bored with a bit 1/32" to 1/16" larger than the nominal bolt diameter. Cut washers shall be placed under heads and nuts of all bolts and under heads of lags. Double cut washers shall be used for bolts connecting wood ledgers to concrete or masonry walls. All bolts shall be re-tightened prior to application of plywood, plaster, etc.
9. Lag screws shall be screwed into pre-drilled holes 75% of the diameter of the root of the thread.
10. No structural members (joists, plates, studs, beams, etc.) shall be notched, cut or drilled (except for those holes required for bolting) unless specifically noted.

PROJECT PROFILE

Description:

The following design is limited to the necessary analysis for the lower level deck addition to be constructed adjacent to the existing two story residence. This design uses the existing posts and foundation pads that support the upper level deck and tie in new framing members to provide the support for the new deck area.

Lateral Design:

The proposed additional deck area provides significant improvements and bracing to the lateral stability of the existing raised deck, and since the improvements are added near the base of the existing posts, no new lateral analysis is required.

Building Information:

Deck Addition Ht:	4.5 ft.	Avg. Ht. Above Grade
Existing Deck Ht.	15 ft.	Avg. Ht. Above Grade
Importance Factor:	I = 1	ASCE 7-05 Table 6-1

Load Values:

Additional Structural Loads:

Floor System:	8 psf Dead	Free Draining Decking
	40 psf Live	Std Deck Live Loads

Soils Information:

Soils Report By:	N/A - Project proposed no changes to existing foundations.
Bearing Pressure:	1500 psf
Foundation Design:	See attached calculations for analysis to show that existing foundations are sufficient to support additional deck loads.

Vertical Analysis

Beam 1: Deck Joist Simple Span: 8 ft.

Uniform Loads:

$$\begin{aligned} \omega_{DL} &= 8 \text{ psf} \times 1.3 &= 11 \text{ plf} \\ \omega_{LL} &= 40 \text{ psf} \times 1.3 &= 53 \text{ plf} \\ \omega_{TL} &= \omega_{DL} + \omega_{LL} = 63.84 \text{ plf} \end{aligned}$$

Reactions:

$$\begin{aligned} R_{LEFT} &= R_{DL,LT} + R_{LL,LT} = 43 \text{ \#} + 213 \text{ \#} = 255 \text{ \#} \\ R_{RIGHT} &= R_{DL,RT} + R_{LL,RT} = 43 \text{ \#} + 213 \text{ \#} = 255 \text{ \#} \end{aligned}$$

Use 2X8 DF#1 Joists @ 16" O/C

Left Support: Deck Beam
Right Support: Deck Beam

Beam 2: Deck Beam Simple Span: 9 ft.

Uniform Loads:

$$\begin{aligned} \omega_{DL} &= 8 \text{ psf} \times 6 &= 48 \text{ plf} \\ \omega_{LL} &= 40 \text{ psf} \times 6 &= 240 \text{ plf} \\ \omega_{TL} &= \omega_{DL} + \omega_{LL} = 288 \text{ plf} \end{aligned}$$

Reactions:

$$\begin{aligned} R_{LEFT} &= R_{DL,LT} + R_{LL,LT} = 216 \text{ \#} + 1080 \text{ \#} = 1296 \text{ \#} \\ R_{RIGHT} &= R_{DL,RT} + R_{LL,RT} = 216 \text{ \#} + 1080 \text{ \#} = 1296 \text{ \#} \end{aligned}$$

Use 4x10 DF#2 Beam

Left Support: Use existing 6X6 Post
Right Support: Use existing 6X6 Post

Multiple Simple Beam

File = E:\2013RE-1\WORKFO-1\MSDENG-1\LEWISD-1\LEWIS4-2\LEWISD-1.EC6
 ENERCALC, INC. 1983-2013, Build:6.13.2.27, Ver:6.13.2.27

Lic. #: KW-06007975

Licensee: MSD PROFESSIONAL ENGINEERING

Description: Vertical Analysis (Beams 1-2)

Wood Beam Design: Beam 1: Deck Joist

Calculations per 2005 NDS, IBC 2006, CBC 2007, ASCE 7-05

BEAM Size: 2x8, Sawn, Fully Braced

Using Allowable Stress Design with ASCE 7-05 Load Combinations, Major Axis Bending

Wood Species: Douglas Fir - Larch

Wood Grade: No. 1

Fb - Tension	1,350.0 psi	Fc - Prll	925.0 psi	Fv	170.0 psi	Ebend- xx	1,600.0 ksi	Density	32.210 pcf
Fb - Compr	1,350.0 psi	Fc - Perp	625.0 psi	Ft	675.0 psi	Eminbend - xx	580.0 ksi		

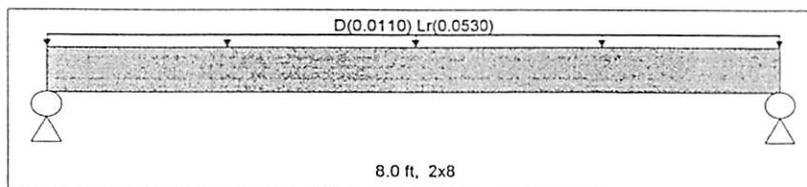
Applied Loads

Unif Load: D = 0.0110, Lr = 0.0530 k/ft, Trib = 1.0 ft

Design Summary

Max fb/Fb Ratio = 0.201 : 1
 fb : Actual : 467.56 psi at 4.000 ft in Span # 1
 Fb : Allowable : 2,328.75 psi
 Load Comb : +D+Lr+H

Max fv/FvRatio = 0.142 : 1
 fv : Actual : 30.13 psi at 0.000 ft in Span # 1
 Fv : Allowable : 212.50 psi
 Load Comb : +D+Lr+H



Max Reactions (k)	D	L	Lr	S	W	E	H
Left Support	0.04		0.21				
Right Support	0.04		0.21				

Max Deflections			
Downward L+Lr+S	0.064 in	Downward Total	0.078 in
Upward L+Lr+S	0.000 in	Upward Total	0.000 in
Live Load Defl Ratio	1490 >360	Total Defl Ratio	1233 >180

Wood Beam Design: Beam-2: Deck Beam

Calculations per 2005 NDS, IBC 2006, CBC 2007, ASCE 7-05

BEAM Size: 4x10, Sawn, Braced @ 1/3 Points

Using Allowable Stress Design with ASCE 7-05 Load Combinations, Major Axis Bending

Wood Species: Douglas Fir - Larch

Wood Grade: No. 2

Fb - Tension	875.0 psi	Fc - Prll	600.0 psi	Fv	170.0 psi	Ebend- xx	1,300.0 ksi	Density	32.210 pcf
Fb - Compr	875.0 psi	Fc - Perp	625.0 psi	Ft	425.0 psi	Eminbend - xx	470.0 ksi		

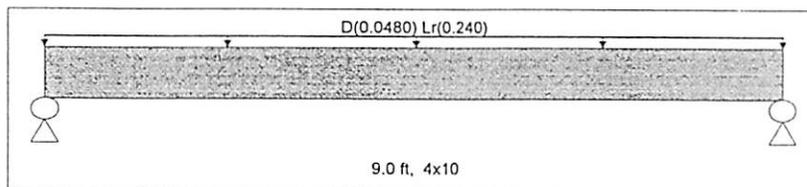
Applied Loads

Unif Load: D = 0.0480, Lr = 0.240 k/ft, Trib = 1.0 ft

Design Summary

Max fb/Fb Ratio = 0.536 : 1
 fb : Actual : 701.08 psi at 4.500 ft in Span # 1
 Fb : Allowable : 1,308.15 psi
 Load Comb : +D+Lr+H

Max fv/FvRatio = 0.235 : 1
 fv : Actual : 50.04 psi at 0.000 ft in Span # 1
 Fv : Allowable : 212.50 psi
 Load Comb : +D+Lr+H



Max Reactions (k)	D	L	Lr	S	W	E	H
Left Support	0.22		1.08				
Right Support	0.22		1.08				

Max Deflections			
Downward L+Lr+S	0.119 in	Downward Total	0.142 in
Upward L+Lr+S	0.000 in	Upward Total	0.000 in
Live Load Defl Ratio	909 >360	Total Defl Ratio	758 >180

Allowable Point Loads on Doug Fir Wood Posts / Columns

Post Size (inches)	Height (feet)	L _e / d (in / in)	F _{CE} (psi)	C _p	F _c '' (psi)	F _c ' (psi)	Area of post (in ²)	P _{ALLOW} (lbs)

4 x 4	8	27.4	638	0.38	1495	568	12.25	6958
	9	30.9	523	0.32	1495	475	12.25	5819
	10	34.3	408	0.26	1495	382	12.25	4680
	11	37.7	346	0.22	1495	327	12.25	4000
	12	41.1	283	0.18	1495	271	12.25	3320
	13	44.6	246	0.16	1495	237	12.25	2897
	14	48.0	208	0.14	1495	202	12.25	2475

4 x 6	8	27.4	638	0.39	1430	564	19.25	10857
	9	30.9	523	0.33	1430	472	19.25	9086
	10	34.3	408	0.27	1430	380	19.25	7315
	11	37.7	346	0.23	1430	325	19.25	6256
	12	41.1	283	0.19	1430	270	19.25	5198
	13	44.6	246	0.16	1430	236	19.25	4533
	14	48.0	208	0.14	1430	201	19.25	3869

4 x 8	8	27.4	638	0.41	1365	560	25.38	14210
	9	30.9	523	0.34	1365	470	25.38	11914
	10	34.3	408	0.28	1365	379	25.38	9617
	11	37.7	346	0.24	1365	325	25.38	8234
	12	41.1	283	0.20	1365	270	25.38	6851
	13	44.6	246	0.17	1365	236	25.38	5976
	14	48.0	208	0.15	1365	201	25.38	5100

6 x 6	8	17.5	1280	0.91	475	431	30.25	13038
	9	19.6	1050	0.87	475	415	30.25	12554
	10	21.8	819	0.84	475	399	30.25	12070
	11	24.0	694	0.79	475	378	30.25	11419
	12	26.2	569	0.75	475	356	30.25	10769
	13	28.4	494	0.70	475	331	30.25	10013
	14	30.5	418	0.64	475	306	30.25	9257
	15	32.7	343	0.59	475	282	30.25	8531
	16	34.9	320	0.54	475	258	30.25	7805
	17	37.1	408	0.50	475	238	30.25	7184
	18	39.3	253	0.46	475	217	30.25	6564
	19	41.5	283	0.42	475	200	30.25	6035
	20	43.6	205	0.38	475	182	30.25	5506

6 x 8	8	17.5	1280	0.91	475	431	41.25	17779
	9	19.6	1050	0.87	475	415	41.25	17119
	10	21.8	819	0.84	475	399	41.25	16459
	11	24.0	694	0.79	475	378	41.25	15572
	12	26.2	569	0.75	475	356	41.25	14685
	13	28.4	494	0.70	475	331	41.25	13654
	14	30.5	418	0.64	475	306	41.25	12623
	15	32.7	343	0.59	475	282	41.25	11633
	16	34.9	320	0.54	475	258	41.25	10643
	17	37.1	408	0.50	475	238	41.25	9797
	18	39.3	253	0.46	475	217	41.25	8951
	19	41.5	283	0.42	475	200	41.25	8229
	20	43.6	205	0.38	475	182	41.25	7508

7/8

ASSUME: *24" SQ EXISTING FOUNDATION PAD
*1500 PSF BEARING PRESSURE

$$\text{EXISTING FOUNDATION PAD CAPACITY} = 4\text{ft}^2 (1500 \text{ PSF}) = \underline{\underline{6000\#}}$$

(PAD DIMENSIONS TO BE FIELD VERIFIED)

*LOAD INTO FOUNDATION PAD DUE TO EXISTING DECK LOADS:

$$\begin{aligned} \text{EXISTING LOAD} &= \overset{\text{D.L.}}{(8 \text{ PSF}) (9 \text{ ft}) (6 \text{ ft})} + \overset{\text{L.L.}}{(40 \text{ PSF}) (9 \text{ ft}) (6 \text{ ft})} \\ &= 2,592\# \end{aligned}$$

*LOAD INTO FOUNDATION PAD DUE TO DECK ADDITION:

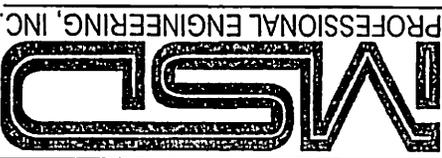
$$\begin{aligned} \text{NEW DECK LOAD} &= (8 \text{ psf}) (9 \text{ ft}) (4 \text{ ft}) + (40 \text{ psf}) (9 \text{ ft}) (4 \text{ ft}) \\ &= 1,728\# \end{aligned}$$

TOTAL LOAD INTO EXISTING DECK PAD:

$$(2,592\#) + (1,728\#) = \underline{\underline{4,320\#}}$$

TOTAL LOAD < ALLOWABLE \therefore (E) FOUNDATION PAD OK AS-IS

* { PROJECT ENG. OF RECORD TO
FIELD VERIFY DECK PAD 24" SQ w/ BEARING INTO
COMPETENT BEARING MATERIAL



4555 EL CAMINO REAL, SUITE H
ATASCADERO, CA 93422
OFFICE: 805.462.2282 FAX 805.462.2293

These drawings and specifications are prepared by the engineer and are the property of MSD Professional Engineering, Inc. All designs and other information on these drawings are for use on the specified project and shall not be used without the express, written consent of MSD Professional Engineering, Inc.

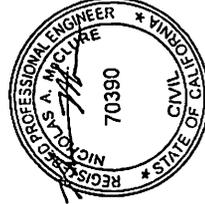
Contractor and sub-contractors shall verify all dimensions and conditions at the job site before proceeding with work and shall immediately notify the engineer in writing of any discrepancies. MSD Professional Engineering, Inc. shall not be responsible for construction of affected aspects of the project.

PROJECT CLIENT &
LOCATION:
MIKE LEWIS
2056 BURWICK DR
CAMBRIA, CA 93428

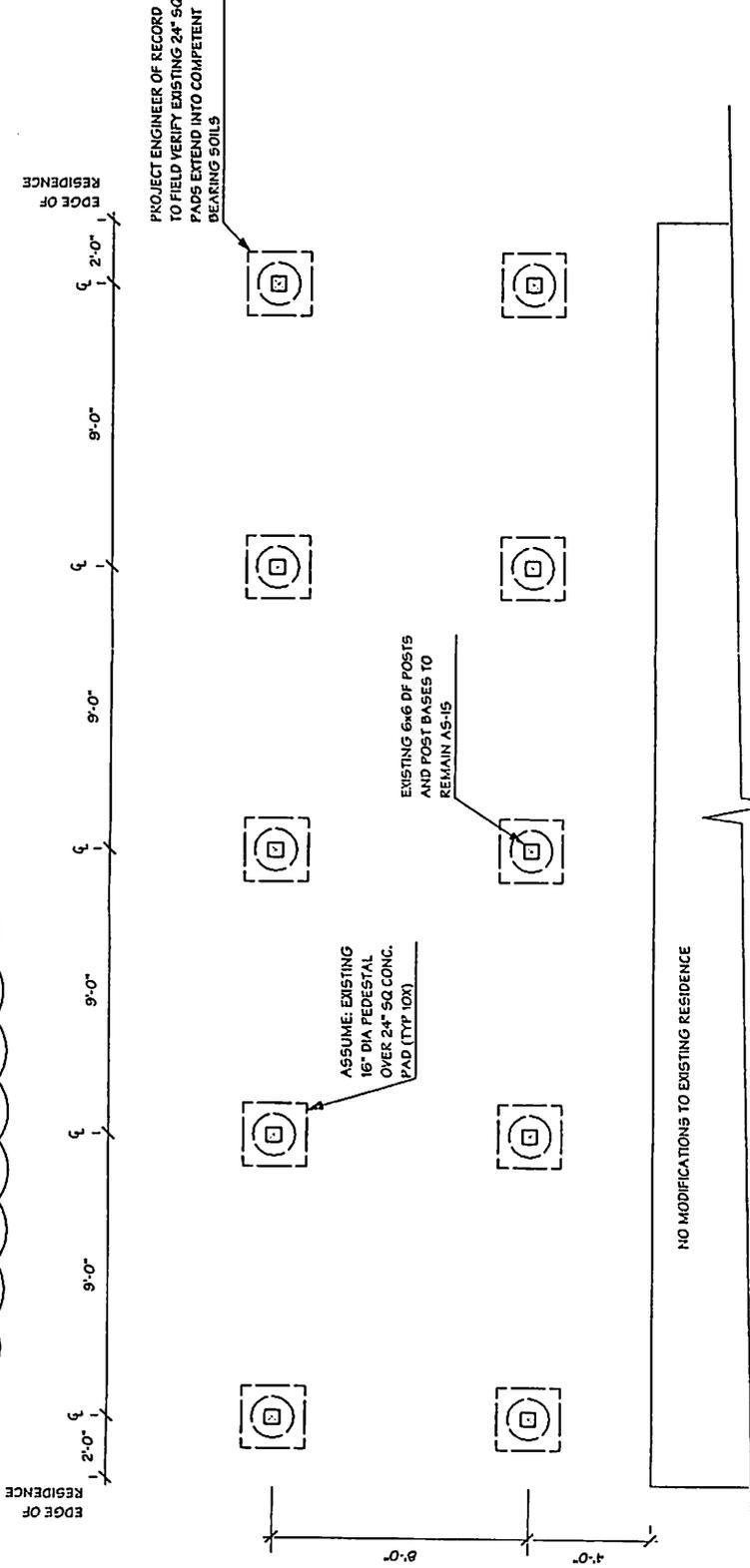
DATE: 04/10/2013

FOUNDATION

S-1



PROJECT NOTE: NO CHANGES PROPOSED TO (E) DECK @ THIS LEVEL



DECK FOUNDATION PLAN - NO PROPOSED CHANGES

S-2

FRAMING

DATE: 04/10/2013

PROJECT CLIENT & LOCATION:
MIKE LEWIS
2056 BUKWICK DR
CALIBRIA, CA 95242

These drawings and specifications are instruments of service and are the property of MSD Professional Engineering, Inc. All design and construction shall comply with the California Building Code and all applicable codes and regulations. The contractor and sub-contractors shall verify all drawings and conditions at the job site before proceeding with work and report any discrepancies or changes to MSD Professional Engineering, Inc. prior to construction of affected aspects of the project.

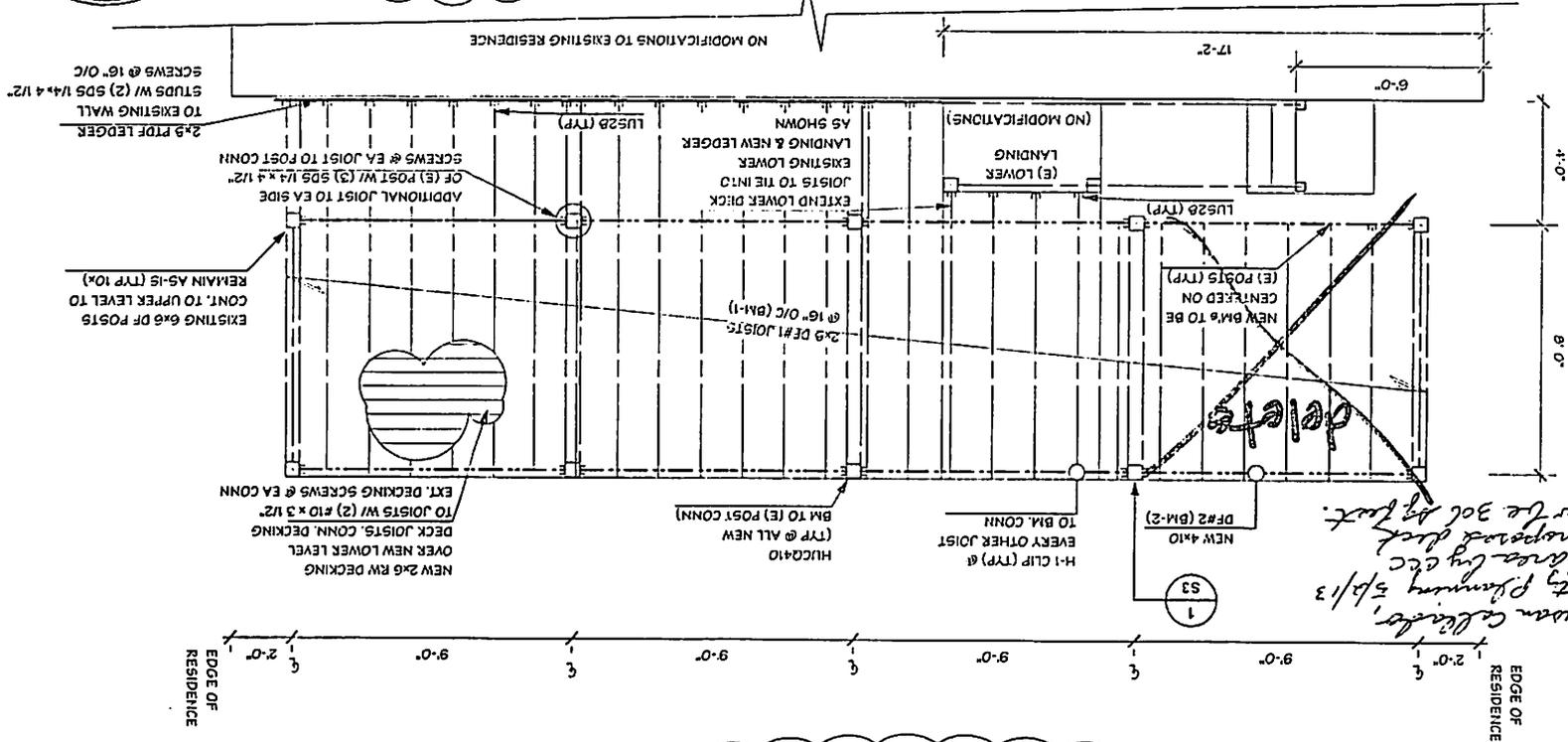
MSD
PROFESSIONAL ENGINEERING, INC.
4535 EL CAMINO REAL, SUITE H
ATASCADERO, CA 94312
OFFICE: 805-4622282 FAX: 805-462-2283



LOWER DECK FRAMING PLAN - DECK ADDITON AREA

WATERPROOFING NOTE:
CONTRACTOR TO PROVIDE NECESSARY WATERPROOFING, FLASHING & COUNTER FLASHING @ NEW LEDGER CONNECTION TO (E) WALL

MATERIAL SPECIFICATIONS:
SEE PROJECT CALCULATIONS PACKAGE FOR ALL MATERIAL & FASTENER SPECIFICATIONS



PROJECT NOTE: DECK IMPROVEMENTS LIMITED TO LOWER LEVEL DECK AREA ONLY & IMPROVE LATERAL BRACING & STABILITY OF (E) SYSTEM. NO ADDITIONAL IMPROVEMENTS REQUIRED.

*Upper level columns, 5/10 County Planning 5/13
Structural area by etc
The new proposed deck
line must be 306 by foot.*

S-3

DETAILS

DATE: 04/10/2013

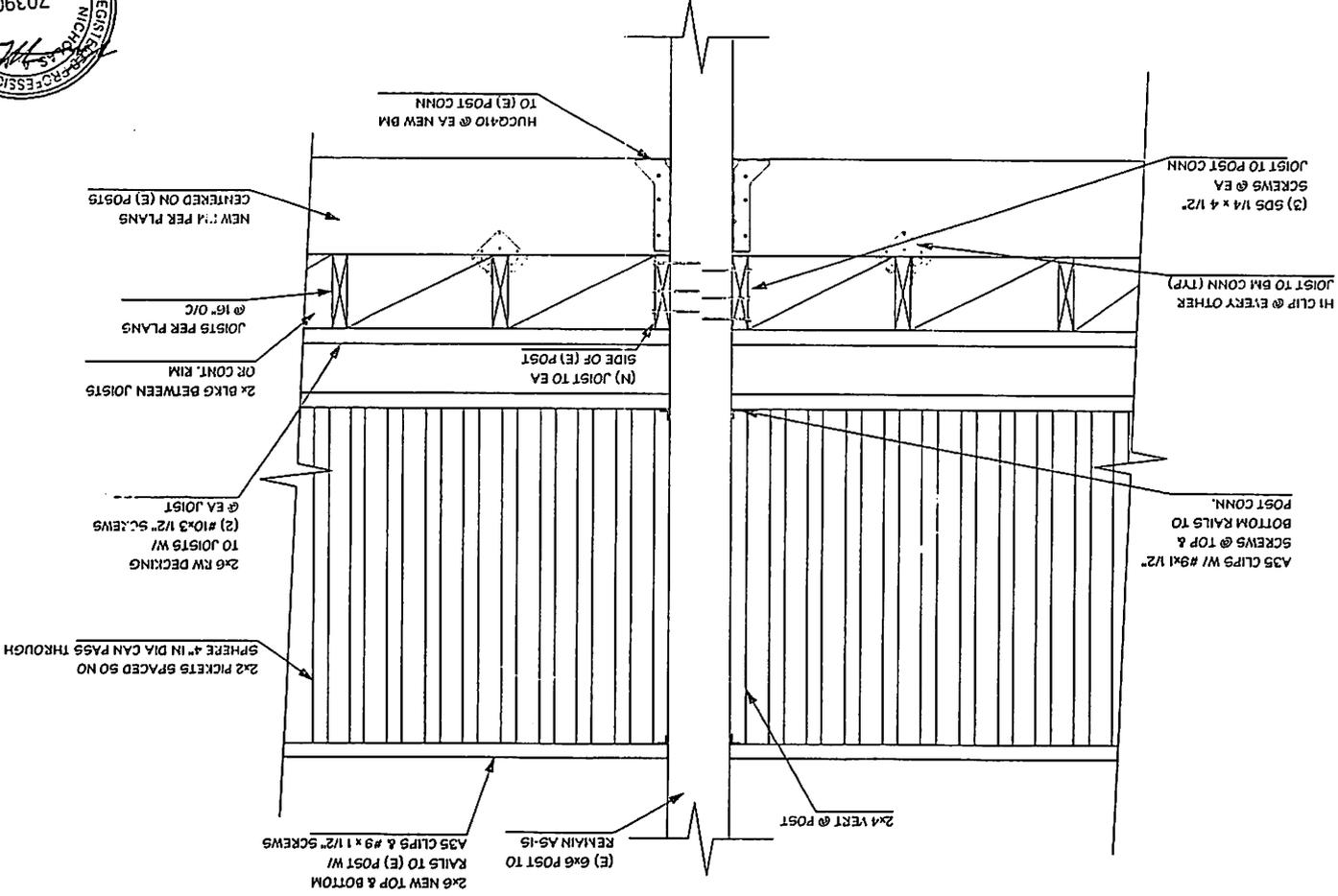
PROJECT CLIENT & LOCATION:
MIKE LEWIS
2056 BURWICK DR
CAMPBELL, CA 95320

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MSD
PROFESSIONAL ENGINEERING, INC.
4555 EL CAMINO REAL, SUITE H
ATASCADERO, CA 93422
OFFICE: 805.462.2282 FAX: 805.462.2283

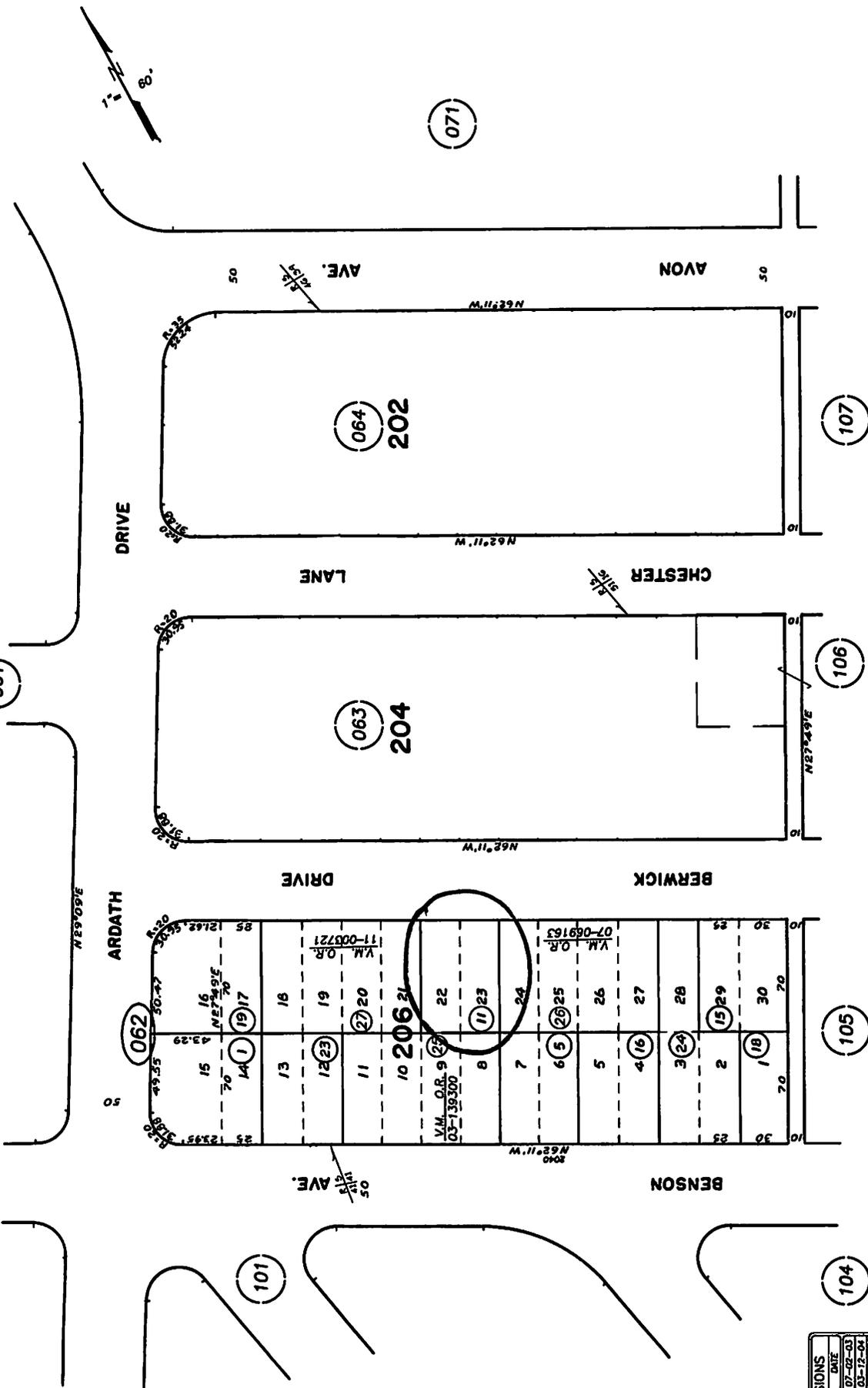


DECK FRAMING & GUARDRAIL CONNECTION DETAIL
SCALE 1" = 1'-0"



023-062

061



REVISIONS	
LS.	DATE
01	02-03
02	07-05
03	12-05
04	12-05
05	05-06-11

0 60 120
 THIS MAP IS PREPARED FOR
 L7
 03-06-99
 ASSESSMENT PURPOSES ONLY.

TRACT NO. 8, R.M. Bk. 5 , Pg. 21

CAMBRIA
 ASSESSOR'S MAP
 SAN JUAN CRISTO, CA
 BOOK 023 PAGE 062

ARDATH

DRIVE

BERWICK

BENSON

AVE.

CHESTER LANE

AVON

064
202

063
204

062

104

106

107

071

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101

061

062

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Parcel Summary Report For Parcel # 023-062-011

5/22/2013
4:40:34PM

San Luis Obispo County Department of Planning and Building

County Government Center

San Luis Obispo, California 93408

Telephone: (805) 781-5600

People Information

Role Name and Address

OWN LEWIS MICHAEL S
691 PARTRIDGE DR BREA CA 92823-

Address Information

Status Address
P 02056 BERWICK DR CAMB

Lot Information:

<u>Tract / Twncshp</u>	<u>Block / Range</u>	<u>Section</u>	<u>Community:</u>	<u>Plan/Area:</u>	<u>Lue 1:</u>	<u>Lue 2:</u>	<u>Lue 3:</u>	<u>Lot:</u>	<u>Flags:</u>	<u>Misc</u>
8	0206	0022	Cambria	North Coast	RSF	LCP	AS	Y	L2	
8	0206	0023	Cambria	North Coast	TH			Y	L2	

Parcel Information

Status Description
Active CAM PINES TR 8 BL 206 LT 22 & 23

Notes

Tax Districts

COAST (SB1537)
SAN LUIS OBISPO JT(27,40)
CAMBRIA PUBLIC
COAST UNIFIED SCHOOL - IMP. NO. 1
CAMBRIA (SB1537 BLO)
CAMBRIA COMMUNITY
NO. 02
CAMBRIA
AREA NO. 21



Parcel Summary Report For Parcel # 023-062-011

5/22/2013
4:40:34PM

San Luis Obispo County Department of Planning and Building

County Government Center

San Luis Obispo, California 93408

Telephone: (805) 781-5600

Case Information

Case Number:

Case Status:

A3642 FNL Primary Parcel

Description:

SINGLE FAMILY DWELL W/ATT GAR (GAR ONLY AT 5' SB)

D970149P CMP Primary Parcel

Description:

SINGLE FAMILY DWELLING W/ATT GARAGE

DRC2012-00098 REC Primary Parcel

Description:

MUP FOR 306 SQ FT LOWER LEVEL DECK

ZON2009-00524 AUT Primary Parcel

Description:

REQUEST TO REMOVE ONE (1) CAMBRIA PINE TREE LOCATED AT THE BACK OF HOUSE NEXT TO THE DECK; TREE IS HAZARDOUS TO FIVE (5) HOMES. ADDRESS APPEARS TO BE INCORRECT BASED ON PARCEL AS THERE WAS NO 2056 LOCATED. THE APN MAP MATCHES THE DESCRIPTION OF 2063 BERWICK. THERE IS A LARGE PINE TREE NEAR REAR DECK TARGETING ADJACENT HOMES. TREE IS LARGE AND HAS SENESCENT CONING. OK TO REMOVE ONE (1) TREE PENDING CONFIRMATION OF ADDRESS (NOTE: TREE NOT TAGGED)/

ZON2012-00133 AUT Primary Parcel

Description:

REQUEST TO REMOVE ONE (1) MONTEREY PINE TREE LOCATED IN THE BACK YARD. TREE IS HAZARDOUS AND LEANING BADLY AND SINCE TRIMMED A MONTH AGO IS LEAKING SAP. ONE (1) MONTEREY PINE TREE TARGETING HOUSES HAS SLIGHT LEAN TOWARDS NEIGHBORING HOUSE, BARK BEETLES, SENESCENT CONING AND IS IN DECLINE. O.K. TO REMOVE ONE (1) MONTEREY PINE TREE.