

**TRPA
APC
PACKETS**

**MARCH
1984**

*Long Range
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NOTICE OF MEETING OF THE
ADVISORY PLANNING COMMISSION OF THE
TAHOE REGIONAL PLANNING AGENCY

NOTICE IS HEREBY GIVEN that on March 14, 1984 at
9:30 a.m. at the hearing room of the Tahoe
Regional Planning Agency, located at 2155 South Avenue, South
Lake Tahoe, California, the Advisory Planning Commission of
said agency will conduct its regular meeting. The agenda for
said meeting is attached to and made a part of this notice.

Dated: March 2, 1984

By: *g w barrett*
Gordon W. Barrett
Principal Planner
Tahoe Regional Planning Agency

TAHOE REGIONAL PLANNING AGENCY
ADVISORY PLANNING COMMISSION

TRPA Office, 2155 South Avenue
South Lake Tahoe, California

March 14, 1984
9:30 a.m.

NOTE: If time permits, upon adjournment of the APC meeting, the Resource Management Subcommittee will meet to discuss grading, water quality, and resource management.

PRELIMINARY AGENDA

- I CALL TO ORDER AND DETERMINATION OF QUORUM
- II APPROVAL OF AGENDA
- III DISPOSITION OF MINUTES
- IV PLANNING MATTERS
 - A. Summary and Discussion of Final Goals and Policies Plan
 - B. Subcommittee Reports on Ordinance Review
 1. Transportation/Air Quality
 2. Resource Management *finished deliberation on 2 chapters of the codified ordinance*
 - C. Plan Area Statements Update
 - D. Design Review Guidelines Update
 - E. Land Capability Mapping Update
 - F. Subcommittee Meeting Schedule
 - G. Transportation Planning (Section 8) Status Report
 - H. Monitoring and Evaluation Program Status Report
 - I. Other
- V ADMINISTRATIVE MATTERS
- VI REPORTS
 - A. Staff Reports
 1. Status of Proposed Lake Fishery Study
 - B. Legal Reports
 - C. Public Interest Comments

D. APC Members

1. Redevelopment Financial Feasibility Study Report

VII RESOLUTIONS

VIII CORRESPONDENCE

IX PENDING MATTERS

X ADJOURNMENT

TAHOE REGIONAL PLANNING AGENCY

P.O. Box 8896
South Lake Tahoe, California 95731

2155 South Avenue

(916) 541-0246

MEMORANDUM

March 7, 1984

TO: TRPA Advisory Planning Commission
FROM: Agency Staff
SUBJECT: February 8, 1984 APC Regular Meeting Minutes

Due to the work load every attempt will be made to mail the APC minutes for February 8, 1984 to you prior to the March APC meeting.

/md

APC Agenda Item III

- 8.00.00.0 TRANSPORTATION/AIR QUALITY PROVISIONS
 - 8.00.01.0 General Explanation
 - 8.00.02.0 Coordination
 - 8.00.03.0 Documents
- 8.01.00.0 INSPECTION AND MAINTENANCE
 - 8.01.01.0 General
- 8.02.00.0 WATER HEATERS
 - 8.02.01.0 Program Requirements
 - 8.02.02.0 Certification
 - 8.02.03.0 Enforcement
 - 8.02.04.0 Exemptions
- 8.03.00.0 SPACE HEATERS
 - 8.03.01.0 Program Requirements
 - 8.03.02.0 Certification
 - 8.03.03.0 Enforcement
 - 8.03.04.0 Exemptions
- 8.04.00.0 RESIDENTIAL WOOD HEATERS
 - 8.04.01.0 Program Requirements
 - 8.04.02.0 Certification
 - 8.04.03.0 Enforcement
- 8.05.00.0 OPEN BURNING
 - 8.05.01.0 Program Requirements
 - 8.05.02.0 Enforcement/Permitting Authority
- 8.06.00.0 AIR QUALITY/TRAFFIC MITIGATION PROGRAM
 - 8.06.01.0 Program Requirements
- 8.07.00.0 STATIONARY SOURCE REVIEW
 - 8.07.01.0 Program Requirements

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8.00.00.0 TRANSPORTATION/AIR QUALITY PROVISIONS

8.00.01.0 General Explanation: The purpose of this chapter is to establish standards and guidelines for the improvement and protection of air quality within the Basin. Such standards and guidelines shall apply to the review of all projects and to existing development and uses where specified.

8.00.02.0 Coordination:

a. The Agency will coordinate with the following parties to implement and enforce the provisions of this Section:

- (1) Nevada Division of Environmental Protection
- (2) California Air Resources Board
- (3) U.S. Environmental Protection Agency
- (4) City of South Lake Tahoe
- (5) Douglas, Washoe, Placer, and El Dorado Counties
- (6) U.S. Forest Service
- (7) Local Fire Districts
- (8) Local Building Departments
- (9) Placer County Air Pollution Control District
- (10) El Dorado County Air Pollution Control District
- (11) Lake Tahoe Air Basin Pollution Control Council
- (12) Tahoe Transportation District
- (13) California Department of Transportation
- (14) Nevada Department of Transportation
- (15) California Department of Motor Vehicles
- (16) Nevada Department of Motor Vehicles
- (17) California Department of Consumer Affairs: Bureau of Automotive Repair

b. Certain responsibilities may be delegated to the parties identified in (a). In the event of delegation, the Agency will establish a memorandum of understanding that identifies responsibilities.

8.00.03.0 Documents: All references cited in this Chapter are available at the TRPA office for review and reproduction.

8.01.00.0 INSPECTION AND MAINTENANCE: The Tahoe Regional Planning Agency is granted authority to establish this program through Public Law 96-551 entitled the Tahoe Regional Planning Compact.

8.01.01.0 General: The purpose of this Section is to implement an inspection and maintenance (I/M) program. The I/M program is designed to reduce emissions of nitrogen oxides, carbon monoxide, and hydrocarbons from motor vehicles of local residents. The program for carbon monoxide and hydrocarbons

will be implemented in each state under the provisions prescribed by current state law. A program for nitrogen oxides emissions testing will be implemented as soon as practicable in each state, or by the TRPA if either state fails to act. An underhood inspection for nitrogen oxides control equipment will be implemented as part of the initial testing program in each state.

If either state fails to implement an inspection and maintenance program for carbon monoxide, hydrocarbons and NO underhood inspections by October 1, 1985 then TRPA shall proceed to implement a program according to the following provisions:

- a. Inspection stations will be established within the Tahoe Basin to test automobiles.
- b. The test at the stations shall include:
 - (1) A determination that the emission control devices and systems required by state and federal law are installed and functioning correctly. This determination shall include an underhood inspection.
 - (2) A test of the vehicle's exhaust emissions of hydrocarbons and carbon monoxide in the idle mode.
 - (3) A determination as to whether the vehicle complies with the vehicle emissions standard for that vehicle's class and model-year.
- c. Repair stations on both the north and south shore shall be identified.
- d. Automobiles requiring repairs shall be re-inspected after the necessary repairs have been made.
- e. The program shall cover all motor vehicles powered by internal combustion engines with the exception of motorcycles, heavy-duty vehicles, diesel-powered vehicles, vehicles over twenty years old, propane vehicles and fire engines.
- f. A public education program will be established by TRPA before the program is implemented and will continue to function during the implementation of the program.

8.02.00.0 WATER HEATERS: This rule limits emissions of nitrogen oxides from natural gas and propane fired water heaters.

8.02.01.0 Program Requirements:

- a. After January 1, 1985, a person shall not install within the Tahoe Basin:
 - (1) Gas and propane fired stationary home water heaters that emit nitrogen oxides in excess of 40 nanograms of nitrogen oxide (calculated as nitrogen dioxide) per joule of heat output (70 pounds per billion BTU) at sea level.

- (2) Gas-fired stationary home water heaters that are not certified in accordance with Subsection 8.02.02.0.
- (3) Gas and propane fired stationary home water heaters not adjusted for the elevation of Tahoe.

8.02.02.0 Certification:

- a. The manufacturer shall test each water heater model in accordance with the following:
 - (1) Each water heater model shall be operated in accordance with Section 4.2.35, Code of Federal Regulations, Title 10, Part 430, Subpart B, Appendix N at normal test pressure, input rates, and with a five-foot exhaust stack installed during the nitrogen oxides emission tests.
 - (2) The measurement of nitrogen oxides emissions shall be conducted in accordance with EPA test methods or other test methods approved by the Agency.
- b. The following calculation shall be used to determine the nanograms of nitrogen oxides per joule of heat output:

$$N = \frac{(4.566 \times 10^4) (P) (U)}{(H) (C) (E)}$$

Where

N = nanograms of nitrogen oxide emitted per joule of heat output

P = parts per million (volume) nitrogen oxides in flue gas

U = volume percentage of carbon dioxide in water-free flue gas for stoichiometric combustion

C = volume percentage of carbon dioxide in water free flue gas

H = gross heating value of gas, BTU/foot (60°F, 30" hg)

E = recovery efficiency, percentage

c. The manufacturer shall submit the following to the Agency:

- (1) A statement that the model is in compliance with Subsection 8.02.01.0. The statement shall be signed and dated, and shall attest to the accuracy of all statements.
- (2) Name and address of the manufacturer.
- (3) Brand name.
- (4) Model number, as it appears on the water heater rating plate.
- (5) Description of each model being certified.

8.02.03.0 Enforcement:

- a. The Agency may require that the emission test results be provided when deemed necessary to verify compliance.
- b. The Agency shall maintain and distribute a list of models that meet the requirements of this rule and every January and July notify retailers in locations deemed appropriate by the Executive Director. (See 8.04.03.0)
- c. It shall be illegal to offer for sale for installation in the Tahoe Region any noncertified units.
- d. The Agency shall require certified units to be installed in new projects as a condition of project approval.
- e. The Agency shall seek modifications to local building codes to require local permits for one-to-one replacement.

8.02.04.0 Exemptions:

- a. The provisions of this rule shall not apply to:
 - (1) Water heaters with a rated heat input of 75,000 BTU per hour or greater.
 - (2) Water heaters used in recreational vehicles.

8.03.00.0 SPACE HEATERS: This rule limits emissions of nitrogen oxides from natural gas and propane fired fan type central furnaces.

8.03.01.0 Program Requirements:

- a. After January 1, 1985, a person shall not install within the Tahoe Basin:
 - (1) Gas and propane fired stationary fan type central furnaces that emit nitrogen oxides in excess of 40 nanograms of nitrogen oxides (calculated as nitrogen dioxide) per joule of useful heat (70 pounds per billion BTU) delivered to the heated space at sea level.

- (2) Gas and propane fired stationary fan type central furnaces that are not certified in accordance with Subsection 8.03.02.0.
- (3) Gas and propane fired stationary fan type central furnaces not adjusted for the elevation of the Tahoe Region.

8.03.02.0 Certification:

- a. The manufacturer shall test each gas-fired stationary fan type central furnace model in accordance with the following:
 - (1) Each tested furnace heater shall be operated in accordance with the procedures specified in American National Standards Z21.47-1978, Section 2.7.1., normal test pressure, input rate, supply voltage and equipped with a five-foot exhaust stack.
 - (2) The measurement of nitrogen oxides emissions shall be conducted in accordance with EPA test methods or other test methods approved by the Agency.
- b. Either of the two following calculations shall be used to determine the nanograms of nitrogen oxides per joule of heat output:

$$N = \frac{(4.566 \times 10^4) (P) (U)}{(H) (C) (E)} \qquad N = \frac{(3.655) (10^{10}) (P)}{(20.9 - Y) (Z) (E)}$$

Where

N = nanograms of nitrogen oxide emitted per joule of useful heat

P = parts per million (volume) nitrogen oxide in flue gas

U = volume percentage of carbon dioxide in water-free flue gas for stoichiometric combustion

C = Volume percentage of carbon dioxide in water free flue gas assuming complete combustion and no carbon monoxide present

H = gross heating value of gas, BTU/Cu. foot (60°P, 30" hg)

E = Seasonal efficiency, percentage

Y = Volume percent oxygen in flue gas

Z = Heating value of gas, joules/cu. meter (0.0 C 1 ATM)

- c. The manufacturer shall submit to the Agency the following:
 - (1) A statement that the model is in compliance with Subsection 8.03.01.0. The statement shall be signed and dated, and shall attest to the accuracy of all statements.
 - (2) Name and address of the manufacturer.
 - (3) Brand name.
 - (4) Model number, as it appears on the water heater rating plate.
 - (5) Description of each model being certified.

8.03.03.0 Enforcement:

- a. The Agency may require that the emission test results be provided when deemed necessary to verify compliance.
- b. The Agency shall maintain and distribute a list of models that meet the requirements of this rule and every January and July notify retailers in locations deemed appropriate by the Executive Director. (See 8.04.03.0)
- c. It shall be illegal to offer for sale for installation in the Tahoe Region any noncertified units.
- d. The Agency shall require certified units to be installed in new projects as a condition of project approval.
- e. The Agency shall seek modifications to local building codes to require local permits for one-to-one replacement.

8.03.04.0 Exemptions:

- a. The provisions of this rule shall not apply to:
 - (1) Gas-fired stationary home fan type central furnaces with a rated heat input of 75,000 BTU per hour or greater.
 - (2) Gas-fired stationary home fan type central furnaces used in recreational vehicles.

8.04.00.0 RESIDENTIAL WOOD HEATERS: This rule limits emissions of particulate matter from residential wood heaters.

8.04.01.0 Program Requirements:

- a. After January 1, 1985, a person shall not install the following within the Tahoe Region:
 - (1) Residential wood heaters that emit particulate matter in excess of 0.330×10^{-6} gm/joule of heat output, averaged over at least six tests, or not more than 0.65×10^{-6} gm/joule of useful heat output for any single test.

- (2) Residential wood heaters that are not certified in accordance with Subsection 8.04.02.0.
- b. One residential wood heater is allowed for each residential unit. A hotel, motel, inn, or lodge may have one fireplace or residential wood heater per lobby. Residential wood heaters in individual guest rooms are prohibited.
- c. A restaurant or bar may have either one fireplace or residential wood heater.
- d. Any commercial facilities not covered by Subsections b and c shall be allowed one residential wood heater per facility.
- e. Coal shall not be used as a fuel in the Tahoe Basin.

8.04.02.0 Certification:

- a. The manufacturer shall test each residential wood heater model at an independent testing laboratory approved by the Executive Director. (See attachment A.)
- b. The manufacturer shall submit to the Agency the following:
 - (1) A statement that the model is in compliance with Subsection 8.04.01.0. The statement shall be signed and dated, and shall attest to the accuracy of all statements.
 - (2) Name and address of the manufacturer.
 - (3) Brand name.
 - (4) Model number, as it appears on the heating device.
 - (5) Description of each model being certified.
 - (6) Test results from the independent laboratory.

8.04.03.0 Enforcement:

- a. The Agency may require that the emission test results be provided when deemed necessary to verify compliance.
- b. The Agency shall maintain and distribute a list of models that meet the requirements of this rule and every January and July notify retailers in locations deemed appropriate by the Executive Director. (See 8.04.03.0)
- c. It shall be illegal to offer for sale for installation in the Tahoe Region any noncertified units.
- d. The Agency shall require certified units to be installed in new projects as a condition of project approval.
- e. The Agency shall seek modifications to local building codes to require local permits for one-to-one replacement.

8.05.00.0 OPEN BURNING: This ordinance regulates open burning of material within the Tahoe Basin to improve air quality. The open burning of any combustible refuse, waste, garbage, oil or any other material is prohibited within the Tahoe Region. Except as provided below, the provisions of this ordinance shall not apply to recreational fires, ceremonial fires, and cooking fires. The provisions of applicable fire laws shall apply to these fires.

8.05.01.0 Program Requirements:

- a. The burning of unutilized wood waste associated with, but not limited to, forest management, right-of-way clearing, clearing for new construction, and fire hazard reduction shall be treated in accordance with the remaining provision of this ordinance and applicable fire laws.
- b. No person shall knowingly burn any material until they have received a written air quality permit from an agency authorized in subsection 8.05.02.0.

The following information shall be provided before an air quality permit will be issued:

- (1) Name and address of the permittee
 - (2) Location of the burn
 - (3) Amount and type of material to be burned
 - (4) Distance to nearest residential area
 - (5) Other information required by the permitting agency
- c. Each permit issued shall bear a statement of warning containing the following words or words of like or similar import: "This permit is valid only for those days on which the state air resources board or the APCD does not prohibit agricultural burning pursuant to Section 41855 of the HSC.
 - d. A permit shall not be issued to an applicant unless information is provided as required by the designated fire protection agency for fire protection purposes.
 - e. The burn permit shall be available for inspection at the burn site during the burn.
 - f. Any material greater than six inches in diameter shall be dried for eight or more weeks. Any material less than six inches in diameter shall be dried for four weeks or more.
 - g. All burning will begin after 10:00 a.m. and no additional material will be added to the fire after 3:00 p.m. Exceptions will be approved through the burning plan approved by the Agency.
 - h. Material to be burned will be the result of tree removal activities authorized in Section 6.01.00.0 or prescribed burning activities authorized in Section 6.02.00.0

- i. Open burning shall be prohibited between June 15 and October 15 for all areas within the basin. Exceptions will be approved through a burning plan approved by the Agency.
- j. Burning will occur only on permissive burn days designated by the California Air Resources Board. The U.S. Forest Service will provide information on the designation.
- k. Open burning shall be prohibited when deemed necessary by public fire control agencies for fire control or prevention.

8.05.02.0 Agency Review of Prescribed Burns: The TRPA shall review and approve all burn prescriptions within the Tahoe Region, including smoke management plans.

8.05.03.0 Enforcement/Permitting Authority:

- a. The Agency shall designate the appropriate permitting agency by political jurisdiction and maintain such list.
- b. The provisions of this ordinance shall be enforced by the Agency and state and county air pollution control agencies.
- c. No person shall burn any material unless the day has been designated as a permissive burn day in the Tahoe Basin.

8.06.00.0 AIR QUALITY/TRAFFIC MITIGATION PROGRAM: This rule shall in part provide mitigation of the impacts from new residential and commercial and public projects and changes in use for commercial and public projects that impact air quality and traffic congestion. The rule shall apply only when there will be an increase in the number of vehicle trips associated with the proposed project. Measures included in the Design Review Guidelines shall also be required to be implemented as mitigation in addition to the fee by applicants, if appropriate, to mitigate impacts from projects.

8.06.01.0 Program Requirements:

- a. Residential projects that will result in an increase of new vehicle trips shall pay a mitigation fee of \$ _____ / vehicle trip for the peak 24-hour period.
- b. Commercial and public projects that will result in an increase of new trips that generate less than 1,500 vehicle trips for the peak 24-hour period shall pay a mitigation fee of \$ _____ / vehicle trip.
- c. Commercial and public projects that will result in an increase of new trips that generate more than 1,500 vehicle trips for the peak 24-hour period shall complete an environmental impact statement. *M.T. Smith*

measures

- d. Commercial and public projects that will result in an increase of new trips that generate more than 50 vehicle trips for the peak 24 hour period and locate within 1/4 mile of an area with a level of service "E" for the peak 1 hour period shall complete a traffic report. This report shall be prepared by an independent contractor selected by the Agency in consultation with the applicant. The traffic report shall evaluate alternatives to the project and identify mitigation to reduce the impacts and evaluate any relationships to the phasing of the mitigation measures included in the Regional Plan. The Agency shall identify areas within 1/4 mile of a level of service "E" every April.
- e. The applicant may complete a traffic analysis where there is a project that may result in a large number of trips, but a small amount of vehicle miles of travel. Projects that pursue this approach shall pay a mitigation fee of \$_____/vehicle mile of travel.
- f. A mitigation program may be implemented in lieu of a fee if the Agency determines it is as effective as the fee.
- g. The Agency shall collect and administer mitigation fees and such fees shall be known collectively as the Air Quality Mitigation Fund. The mitigation fees shall be deposited into commercial bank accounts, liquid asset funds, or purchase of certificates of deposit. [Language reserved on the distribution of mitigation funds.]
- h. Air Quality Mitigation Funds shall be disbursed to the counties or city upon request for expenditure on air quality control projects with the jurisdiction of origin of such funds as set forth in the Regional Plan and with the approval of the Agency.

8.07.00.0 STATIONARY SOURCE REVIEW: The purpose of this rule is to limit the emission level of stationary sources of air pollution that can locate within the Tahoe Basin to insure that the environmental thresholds will be attained.

8.07.01.0 Program Requirements:

- a. Emissions from modified and new stationary sources of air pollution shall be calculated using emissions factors contained in AP-42 Compilation of Air Pollutant Emission Factors or any other method approved by the Agency.
- b. Modified and new stationary sources of air pollution that emit an increase of more than any one of the the following over the peak 24-hour period shall be required to complete an environmental impact statement according to Subsection.

<u>Pollutant</u>	<u>Kilograms</u>
Nitrogen oxides	
Fine particulate matter	
Hydrocarbons	
Sulfur dioxide	
Carbon monoxide	
Lead	

- c. Modified and new stationary sources of air pollution that emit an increase of more than any one of the following over the peak 24-hour period shall be prohibited:

<u>Pollutant</u>	<u>Kilograms</u>
Nitrogen oxides	
Fine particulate matter	
Hydrocarbons	
Sulfur dioxide	
Carbon monoxide	
Lead	

TAHOE REGIONAL PLANNING AGENCY

P.O. Box 8896
South Lake Tahoe, California 95731

2155 South Avenue

(916) 541-0246

MEMORANDUM

DATE: March 6, 1984

TO: Advisory Planning Commission
FROM: Agency Staff
SUBJECT: Resource Management Subcommittee

The Resource Management Subcommittee has completed its review of the Grading and Resource Management chapters of the codified ordinance. Drafts of these 2 chapters are now ready for full APC review.

For the purposes of this agenda item, staff would like the full APC to take the following actions:

1. Discussion and vote on the revised Grading Chapter of the ordinance;
and
2. Discussion and vote on the revised Resource Management Chapter of the ordinance.

3/6/84
DG/sf

AGENDA ITEM IV.B.2.

CHAPTER 5

5.00.00.0 GRADING PROVISIONS

5.00.01.0 General Explanation

5.01.00.0 SPECIAL INFORMATION REPORT REQUIREMENTS

5.01.01.0 Required Investigations, Reports, and Plans

- 5.01.01.1 General Requirements of Subsurface Investigations
- 5.01.01.2 Specific Requirements of Subsurface Investigations
- 5.01.01.3 Revegetation and Slope Stabilization
- 5.01.01.4 Additional Investigations and Reports

5.02.00.0 INPSECTIONS

5.02.01.0 Work Subject to Inspection

5.02.02.0 Required Inspections

5.03.00.0 CONSTRUCTION/INSPECTION SCHEDULE

5.04.00.0 WINTERIZATION

5.05.00.0 STANDARDS OF GRADING, FILLING AND CLEARING

5.05.01.0 Seasonal Limitations

- 5.05.01.1 Grading Seasons
- 5.05.01.2 Grading Extensions
- 5.05.01.3 Prohibition of Grading During Inclement Weather

5.05.02.0 Criteria for Grading, Filling and Clearing Operations

5.05.03.0 Discharge Prohibitions

- 5.05.03.1 Direct Discharge
- 5.05.03.2 Indirect Discharge
- 5.05.03.3 Discharge Control Devices

5.05.04.0 Dust Control

5.05.05.0 Disposal of Earthen Materials

5.05.06.0 Cuts, Fills, Setbacks

5.06.00.0 VEGETATION PROTECTION

5.07.00.0 OBJECTS OF ANTIQUITY

CHAPTER 5

5.00.00.0 GRADING PROVISIONS:

*#11 chapters of the
env. had ordinance
begin with a general
explanation of purpose*

5.00.01.0 General Explanation: Soil within the Lake Tahoe Basin is an integral part of the structure and function of the natural ecosystem. The disturbance of soil allows the possibility of erosion and the degradation of water quality in the region. Proper techniques and constraints can minimize the impacts of grading. Grading activities, except as set forth under ~~Subsection 2.04.08.0~~, shall require an Agency permit and be reviewed against the following criteria:

Section 20700.0

MOU

5.01.00.0 SPECIAL INFORMATION REPORT REQUIREMENTS: Applicants for grading permits shall submit a complete application to the Agency pursuant to the Rules and Regulations of Practice and Procedure.

5.01.01.0 Required Investigations, Reports, and Plans:

*Section 5.01.00.0 explains
when detailed studies
or information may
be required to
help assess review
of grading disturbance*

5.01.01.1 General Requirements of Subsurface Investigations:

If a subsurface soil and geological report is required pursuant to Subset 5.01.01.2, subsurface investigations shall be performed, by a qualified expert, throughout the area to sufficiently describe the existing conditions.

5.01.01.2 Specific Requirements of Subsurface Investigations:

Subsurface investigations shall be conducted, and a subsurface soil and geological report prepared, where stability may be lessened by the proposed grading or filling or when such grading or filling will be performed at any of the following locations:

- a. Fault zones;
- b. Contact zones between two or more geologic formations;
- c. Zones of trapped water or high water table;
- d. Where bodies of intrusive materials (rocks, boulders, etc.) are prevalent;
- e. Historic landslides or where the topography is indicative of prehistoric landslides;
- f. Adversely sloped bedding planes, short-range folding areas, overturned folds, fractures and other geologic formations of similar importance;
- g. Where a fill slope is to be placed above a cut slope;
- h. Proposed or existing cuts exceeding twenty (20) feet in height, unless in competent rock;