

C. Y. GEOTECH, INC.

Engineering Geology and Geotechnical Engineering

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July 27, 2007

P.N. CYG-06-4508

Mr. Vladi Tomalevski
1514 17th Street
Santa Monica, California 90404

Subject: Review of Drainage Plans and Infiltration Pit Plan, Proposed Five Unit Condominium, Lot S, Block 136, Santa Monica Tract, 1327 Euclid Street, Santa Monica, California

References: C.Y. Geotech, Inc., May 10, 2006, Geotechnical Engineering Investigation, Proposed Five Unit Condominium, Lot S, Block 136, Santa Monica Tract, 1327 Euclid Street, Santa Monica, California

City of Santa Monica Review Letter Dated August 31, 2006 (CCC Log# 0934)

C.Y. Geotech, Inc., September 5, Response to City of Santa Monica Review Sheet Dated August 31, 2006, Proposed Five Unit Condominium, Lot S, Block 136, Santa Monica Tract, 1327 Euclid Street, Santa Monica, California

Dear Vladi,

As requested, C. Y. Geotech (CYG), Inc. has reviewed the design plan of the proposed infiltration pit prepared by Tritech Associates, Inc. and the drainage plans prepared by GM Engineering. The plan review includes the evaluation of the percolation rate of onsite earth materials in the infiltration pit area and the potential adverse impact of the infiltration pit to building foundation.

The location of the proposed infiltration pit is shown on Figure 1. The illustration of the proposed infiltration pit is shown on Figure 2. As shown on Figure 2, the infiltration pit will be 11 feet long, 7 feet wide and 5.5 feet deep. Based on the information provided by GM Engineering, the infiltration pit should have a minimum capacity of 423 cubic feet.

One (1) test trench was to depth of approximately 4 feet in the area of the proposed infiltration pit (see Figure 1). Older alluvium was encountered in the test trench. The older alluvium consisted of brown clayey sandy silt and brown gravelly clayey silty sand in a moist to very moist and moderately dense to dense condition.

One 1' x 1' x 1' cube was excavated in the center bottom of the test trench. The procedures recommended in the County of Los Angeles Procedures for Application for Approval of Private Sewage Disposal System Construction were followed in the percolation test. The percolation cube was filled with water to the top of the test cube and the times required to drop the water level from the 5th to the 6th inch were recorded. The percolation cube was pre-saturated prior to actual test. The time to drop the water level from the 5th to the

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6th inch was used in the calculation of the absorption rate. The Ryan Formula was used in the calculations of trench area. The results of percolation test and percolation calculations are presented on Figure 3. The percolation test and calculations indicated a percolation rate of 0.47 gallons per day per square foot for the soil in the proposed infiltration pit area.

The following opinions were made based on the findings of the plan review, percolation test and engineering evaluations:

1. Onsite soil in the infiltration pit area can be used for the percolation of run-off water.
2. The proposed infiltration pit has adequate capacity for the mitigation of surface run-off as determined by GM Engineering.
3. The proposed infiltration pit will not undermine the foundation soil and cause adverse effects on the stability of the proposed building structure and adjacent structures.

It is our opinion that the proposed infiltration pit is acceptable from a geologic and geotechnical engineering viewpoint. Water overflowing from the infiltration pit should be diverted away from the building foundation.

The drainage plans and the design plan for the infiltration pit were signed and stamped by CYG.

ENDING

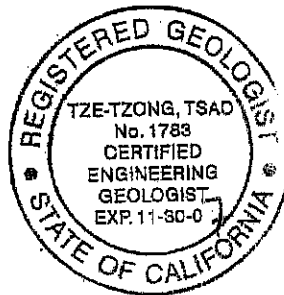
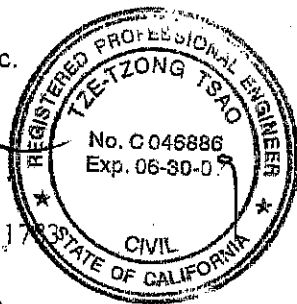
We appreciate the opportunity for providing the professional service. If you have any questions regarding this report or we can be of any further service, please do not hesitate to contact us.

Very truly yours,
C. Y. Geotech, Inc.

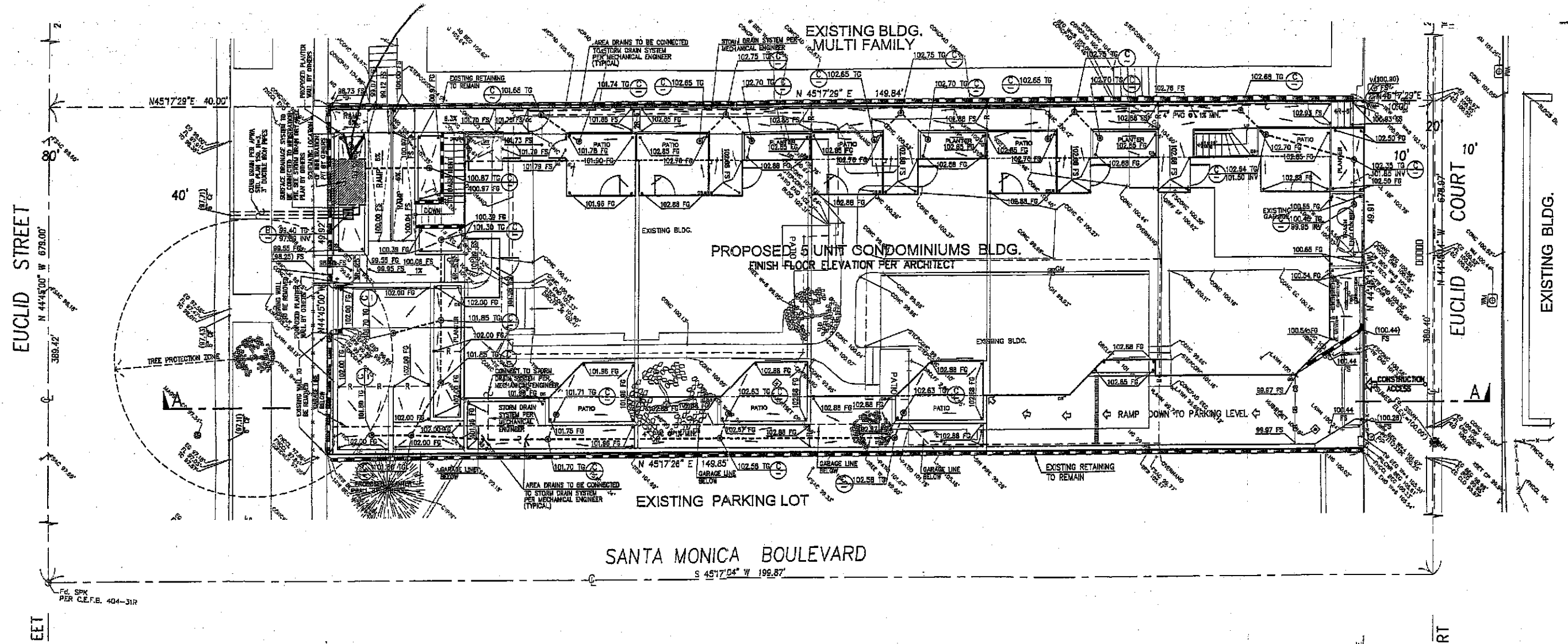


John T. Tsao
RCE 46886/CEG 17

cc: (5) Addressee



**Proposed Infiltration Pit
(Also Percolation Test Location)**



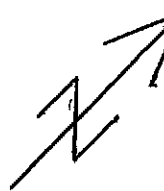
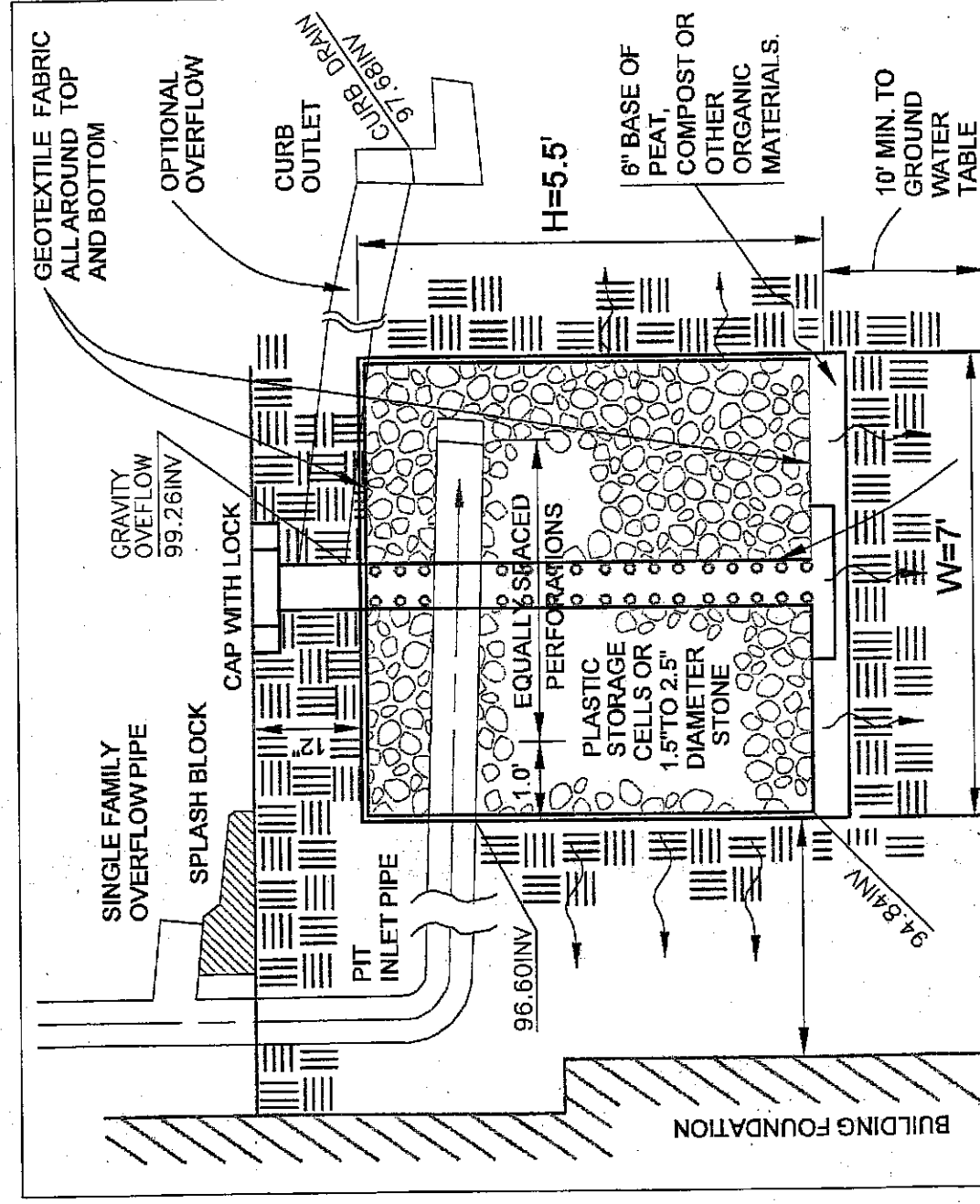

Scale 1" = 16'

Figure 1

H=5.5', W=7', L=11'



NOTES:

1. OVERFLOW ROUTE SHOULD BE PLANNED TO DRAIN WATER AWAY FROM THE HOUSE OR BUILDING.
2. THE PIT CAPACITY $V_{cap} = H \times L \times W = 5.5 \times 11 \times 7 = 423.5 \text{ (FT}^3\text{)}$.
3. SINGLE FAMILY LOTS MAY ONLY DRAIN INTO THE STREET OVER THE WALK OR THE ALLEY. OTHER DEVELOPMENTS MAY ONLY DRAIN INTO THE STREET UNDER THE WALK.
4. PLACE GEOGRID TYPE MATERIAL OVER TOP OF PLASTIC STORAGE CELLS. SEE LIST OF INFILL DEVICES IN URBAN RUNOFF BROCHURE.
5. ROOF GUTTERS REQUIRE A SCREEN TO PREVENT PLUGGING.
6. BIOFILTERS MAY BE USED INSTEAD OF PITS ON SOME SITES.
7. W SHALL BE GREATER THAN H.

INFILTRATION PIT DETAIL

NOT TO SCALE

Section of Proposed Infiltration Pit

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Figure 2

C. Y. GEOTECH, INC.

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FIELD DATA AND CALCULATIONS FOR PERCOLATION TEST

Project No : CYG-06-4508

Jon Address : 1327 Euclid Street, Santa Monica, California

Client : Mr. Vladi Tomalevski

Testing Agency : C. Y. Geotech, Inc.

Testing Personnel : John Tsao

Date of Testing : 07-25-07

Elapsed Time : 56 minutes (5th in to 6th in)

Absorption Rate = $1 / [(56+6.24) / 29] = 1 / 2.146 = 0.47 \text{ gpd/ft}^2$

Figure 3