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201 NORTH FIGUEROA STREET
LOS ANGELES, CA 90012

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GENERAL MANAGER

RAYMOND CHAN
EXECUTIVE OFFICER

SOILS REPORT APPROVAL LETTER

June 3, 2008

LOG # 63239
SOILS/GEOLOGY FILE - 2

Elizabeth Montgomery
12155 Riverside Drive
Valley Village, CA 91607

TRACT: 8560
BLOCK: 11
LOT: 16
LOCATION: 2560 N. Hines Drive

CURRENT REFERENCE REPORT/LETTER(S)	REPORT NO.	DATE(S) OF DOCUMENT	PREPARED BY
Addendum Report	GE05076A	04/28/2008	Geomax Engineering

PREVIOUS REFERENCE REPORT/LETTER(S)	REPORT NO.	DATE(S) OF DOCUMENT	PREPARED BY
Dept. Approval Letter	59478	07/20/2007	LADBS
Addendum Report	GE06176A	06/20/2007	Geomax Engineering
Dept. Approval Letter	55551	11/21/2006	LADBS
Geology/Soils Report	GE05076	05/01/2006	Geomax Engineering

The referenced current addendum report concerning the proposed construction of a new 3-story residence with retaining walls on the subject property has been reviewed by the Grading Division of the Department of Building and Safety.

The Department previously conditionally approved the 05/01/2006 report in a letter dated 11/21/2006, Log #5551. The prior addendum report provided recommendations for the design of a permanent caisson-grade beam shoring system along the northerly and southerly property lines.

The current addendum report provides supplemental recommendations for the southerly-facing temporary excavation.

The current addendum report is acceptable, provided the following conditions are complied with during site development:

1. All conditions of the above referenced Department letters shall apply, except as specifically

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modified herein.

2. All recommendations of the current addendum report which are in addition to or more restrictive than the conditions contained herein shall be incorporated into the plans.

3. Southerly-facing unsurcharged temporary excavations exposing favorably bedding may be cut as follows: vertically up to 8 feet, exceeding 8 feet and up to 16 feet shall be trimmed back at a uniform gradient not exceeding ½:1 (horizontal to vertical), and exceeding 16 feet or any portion of the excavation exposing soil shall be trimmed back at a uniform gradient not exceeding 1:1 (horizontal to vertical), as recommended.

J. ADOLFO ACOSTA
Geotechnical Engineer I

JAA/jaa
63239
(213) 482-0480

cc: Geomax Engineering
Applicant
LA District Office

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
Grading Section

District WLA/TO | Log No. 63239

APPLICATION FOR REVIEW OF TECHNICAL REPORTS AND IMPORT-EXPORT ROUTES

INSTRUCTIONS

A. Address all communications to the Grading Section, LADBS, 201 N. Figueroa St., 3rd Fl., Los Angeles, CA 90012 Telephone No. (213)482-0480.
B. Submit 3 copies (4 for fault study zone) of reports and 3 copies of application with items "1" through "10" completed.
C. Check should be made to the City of Los Angeles.

1. LEGAL DESCRIPTION
Tract 8560
Block 11 Lots 16

2. PROJECT ADDRESS: 2560 HINES DR

3. OWNER ELIZABETH MONTGOMERY
Address [redacted]
City [redacted] Zip [redacted]
Phone (Daytime) [redacted]

4. APPLICANT Marshall Montgomery
Address [redacted]
City L.A. Zip 90065
Phone
(Daytime) [redacted] Fax [redacted]

5. Report(s) Prepared by: GEOMAX ENG

6. Report Date(s): APRIL 28 2008

7. Status of project: ☑ Proposed ☐ Under Construction ☐ Storm Damage

8. Previous site reports? YES if yes, give date(s) of report(s) and name of company who prepared report(s)
6/20/07, 11/21/06, 7/20/07 GEOMAX ENG

9. Previous Department actions? APPROVED if yes, provide dates and attach a copy to expedite processing.
Dates

10. Applicant Signature [signature] Position: AGENT

(DEPARTMENT USE ONLY)

REVIEW REQUESTED	FEES	REVIEW REQUESTED	FEES
☑ Soils Engineering SUPP	60 00	☐ Import-Export Route	
☐ Geology ~~UPGS~~ FUP		☐ Division of Land	
☐ Combined Soils Engr. & Geol.		☑ Other EXP	30 00
☐ Supplemental		Sub-total	90 00
☐ Combined Supplement		One-Stop Surcharge	17 60
		TOTAL FEE	107 60

Fee Due $ 107 60
Fee Verified By: [signature] Date: 5/06/08
(Cashier Use Only)

ACTION BY:

THE REPORT IS: ☐ NOT APPROVED
☐ APPROVED WITH CONDITIONS SEE: ☐ BELOW ☐ ATTACHED

For Geology *Date*

For Soils *Date*

LA Department of Building and Safety
LA 03 08 216139 05/06/08 08:54AM

GRADING REPORT	$60.00
PLAN APPROVAL FEE	$30.00
ONE STOP SURCH	$1.20
SYSTEMS DEVT FEE	$5.40
CITY PLANNING SURCH	$5.40
MISCELLANEOUS	$5.00
Total Due:	$107.60
Check:	$107.60

DISTRIBUTION: ☐ Owner ☐ Applicant ☐ _____ ☐ Soil Engr ☐ Geologist ☐ Board Files ☐ Tract File
Inspection: ☐ LA ☐ VN ☐ WLA ☐ SP/WLA ☐ BI ☐ BMI

PC/GRAD/App.21 (rev. 7/2005)

www.ladbs.org

10107252009732321

G E O M A X E N G I N E E R I N G

7340 FLORENCE AVE., # 229 DOWNEY, CA 90240 PH.: (562) 806-2173 FX.: (562) 806-2369

GEOLOGY - SOILS CIVIL - SURVEY

April 28, 2008
GE05076A

Elizabeth Montgomery
12155 Riverside Drive
Valley Village, CA 91607

Subject: Supplemental Geotechnical Information for Temporary Excavation Walls; Lot 16, Block 11 of Tract No. 8560; 2560 N. Hines Drive, Los Angeles, California

References: 1. Geologic and Soils Report GE05076 dated May 1, 2006.

2. Department Approval Letter Log # 55551 dated November 21, 2006.

3. Supplemental Soils Report GE05076 dated June 20, 2007.

Mrs. Montgomery:

This presents supplemental geotechnical recommendations for the southerly-facing temporary excavation walls for the proposed improvements at the subject site.

As shown on Plates 1 and 2 of the referenced (1) report (Geologic Map and Geologic Cross-Section A-A'), the true dip of bedrock strata dips towards the north in a favorable geological condition that precludes bedding plane slippage on the southerly-facing temporary excavation walls. These temporary excavations will have a maximum height of 21 feet measured from the garage retaining wall to the upper retaining wall along the northerly property line.

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The stability of the southerly-facing temporary excavation walls was analyzed using an 8-foot high vertical with a horizontal back-surface, assumed failure planes that varied from 30 to 60 degrees, assumed tension cracks that varied from 0 to 14 feet, and the saturated, residual shear strength parameters of the sandstone bedrock shown on Plate 8 of the original report (Plate 4).

Calculations show that southerly-facing temporary excavation walls in bedrock may be cut vertical to a maximum height of 8 feet without shoring or slot cuts. Cuts higher than 8 feet and up to a height of 16 feet shall be trimmed to a ½:1 slope. All bedrock and soils above a height of 16 feet shall be trimmed to 1:1 slope (Plate 3).

Northerly-facing temporary excavation walls shall be made in accordance with the recommendations in the referenced (1) report.

This should provide the requested information. Please call if you have any questions.

Respectfully submitted,

Geomax Engineering

Carlos A Morales
Chief Engineer
R.C.E. C69972
Exp.: 9-30-08

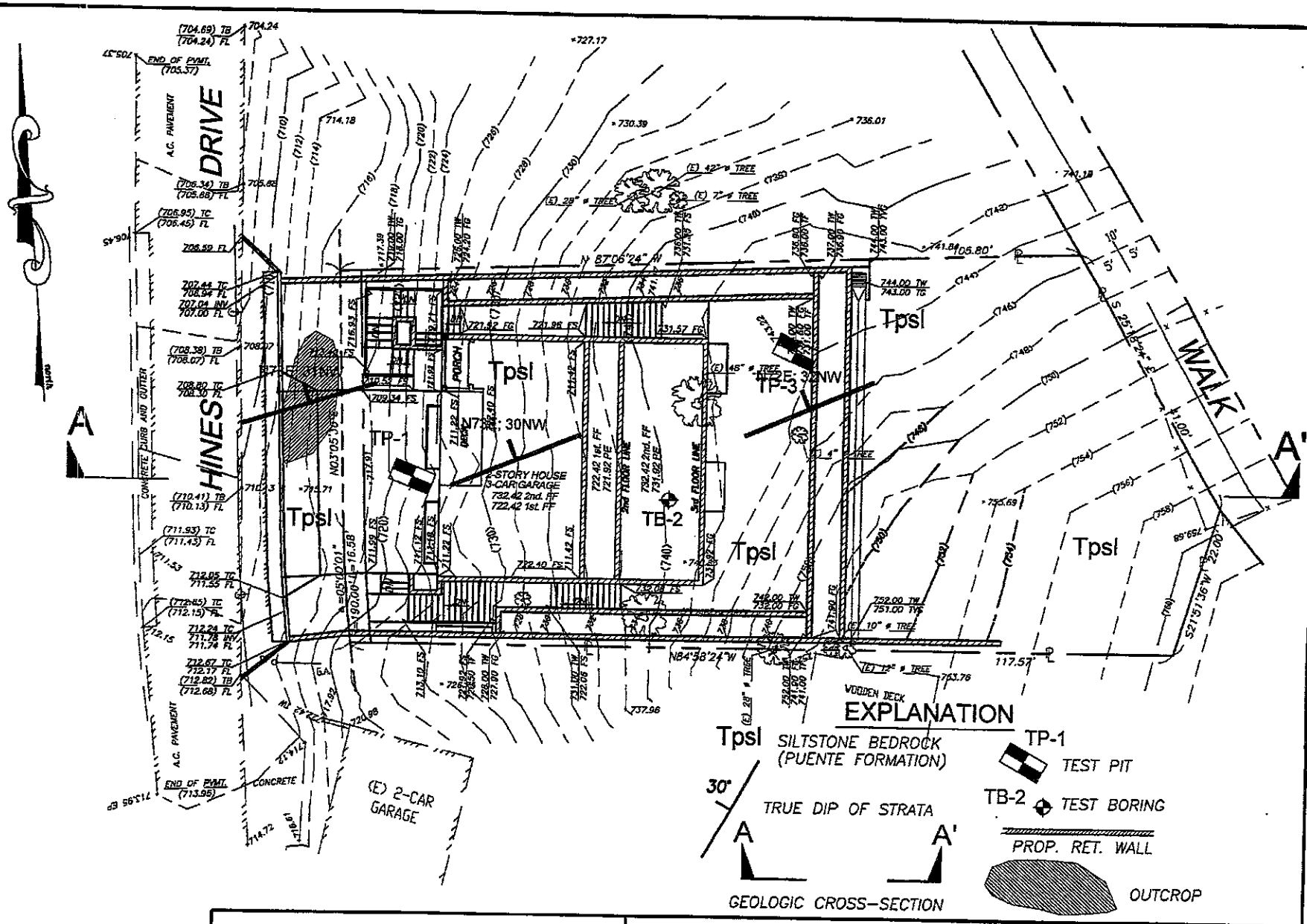
REGISTERED PROFESSIONAL ENGINEER
CARLOS A. MORALES
No. C69972
Exp. 9/30/08
CIVIL
STATE OF CALIFORNIA

Hector Medina
Project Engineer

CAM/HM: em

Attachments: 4 Plates

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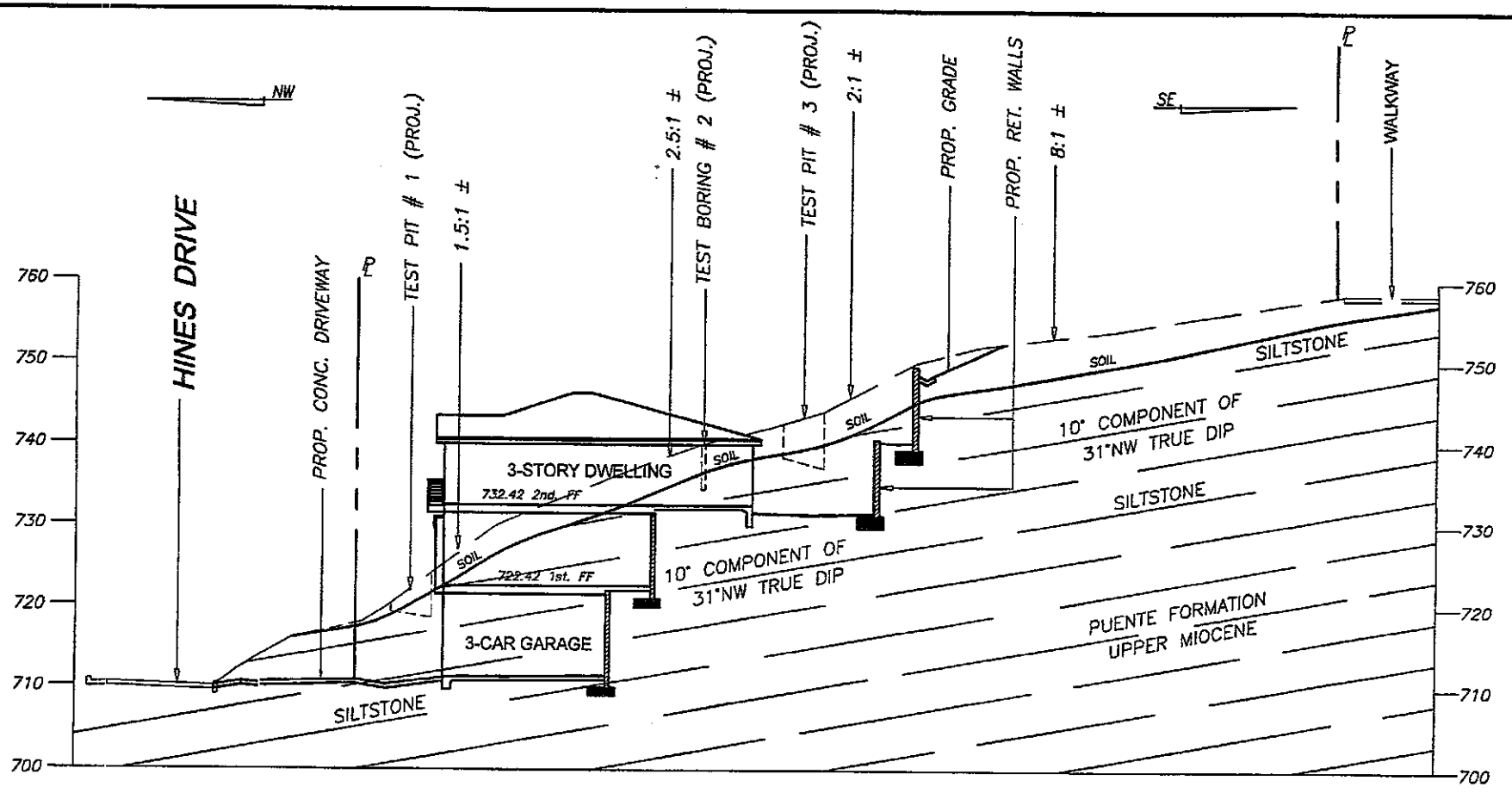
7340 FLORENCE AVE. SUITE 221
DOWNEY, CA 90240
PHONE (562) 806-2173
FAX (562) 806-2369
E-MAIL GEOMAXENG@AOL.COM

GEOLOGIC MAP

LOT 16, BLOCK 11 OF TRACT MAP NO. 8560
2560 HINES DRIVE
LOS ANGELES, CA

DATE: 5-2-06	GE: 05076	PLATE: 1

TEZZ'ZSOOSZ'ZOTOT



GEOLOGIC CROSS-SECTION A-A'

SCALE 1" = 20'

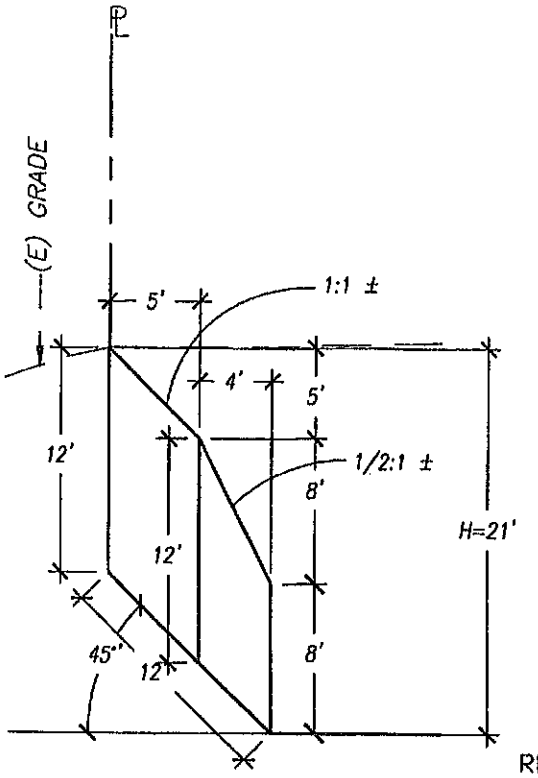
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GEOLOGIC CROSS-SECTION A-A'

DATE: 5-2-06	GE: 05076	PLATE: 2



SCALE 1: 10'

BEDROCK PARAMETERS
SAMPLE 1-1 @ 4' (RES. SHEAR)
PLATE 4 (PLATE B OF ORIGINAL SOILS REPORT)

γ_w = 0.133 KIPS
C = 0.310 KSF
σ = 30°
α = 45° (STEEPEST CALCULATED)
TOTAL HEIGHT = 21' (MAXIMUM)
VERTICAL HEIGHT = 8' (MAXIMUM)
TRIMMED TO 1/2:1 = 8' (MAXIMUM)
TRIMMED TO 1:1 = 5' (MAXIMUM)
Hc = 12' (CRITICAL)

CALCULATIONS

AREA(1) = (8 + 12)(4)(0.5) = 40 s.f.
AREA(2) = (12 + 12)(5)(0.5) = 60 s.f.
A1 + A2 = 40 + 60 = 100 s.f.
$W = A \times \gamma_w = 100 \times 0.133 = 8$ KIPS
CL = 0.310 x 12 = 3.7 KIPS

RESISTING FORCES (Rf) = $W \times \cos^2\alpha \times \tan\sigma + CL$

$Rf = 8 \times \cos^2 45° \times \tan 30° + 3.7$

Rf = 6 KIPS

DRIVING FORCES(Df) = $W \times \sin\alpha \times \cos\alpha$

$Df = 8 \times \sin 45° \times \cos 45°$

Df = 4

$$S.F. = \frac{\text{RESISTING FORCES}}{\text{DRIVING FORCES}}$$

$$S.F. = \frac{6}{4}$$

S. F. = 1.5

1.5 > 1.25 ∴ O.K.

CONCLUSION: SOUTHERLY-FACING TEMPORARY EXCAVATION WALLS IN BEDROCK MAY BE CUT VERTICAL TO A MAXIMUM HEIGHT OF 8 FEET WITHOUT SHORING OR SLOT CUTS. CUTS HIGHER THAN 8 FEET AND UP TO A HEIGHT OF 16 FEET SHALL BE TRIMMED TO A 1/2:1 SLOPE. ALL BEDROCK AND SOILS ABOVE A HEIGHT OF 16 FEET SHALL BE TRIMMED TO A 1:1 SLOPE.

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TEMPORARY EXCAVATION WALLS

DATE:4-28-08	GE: 05076A	PLATE: 3

10107252009732231

DIRECT SHEAR GRAPH

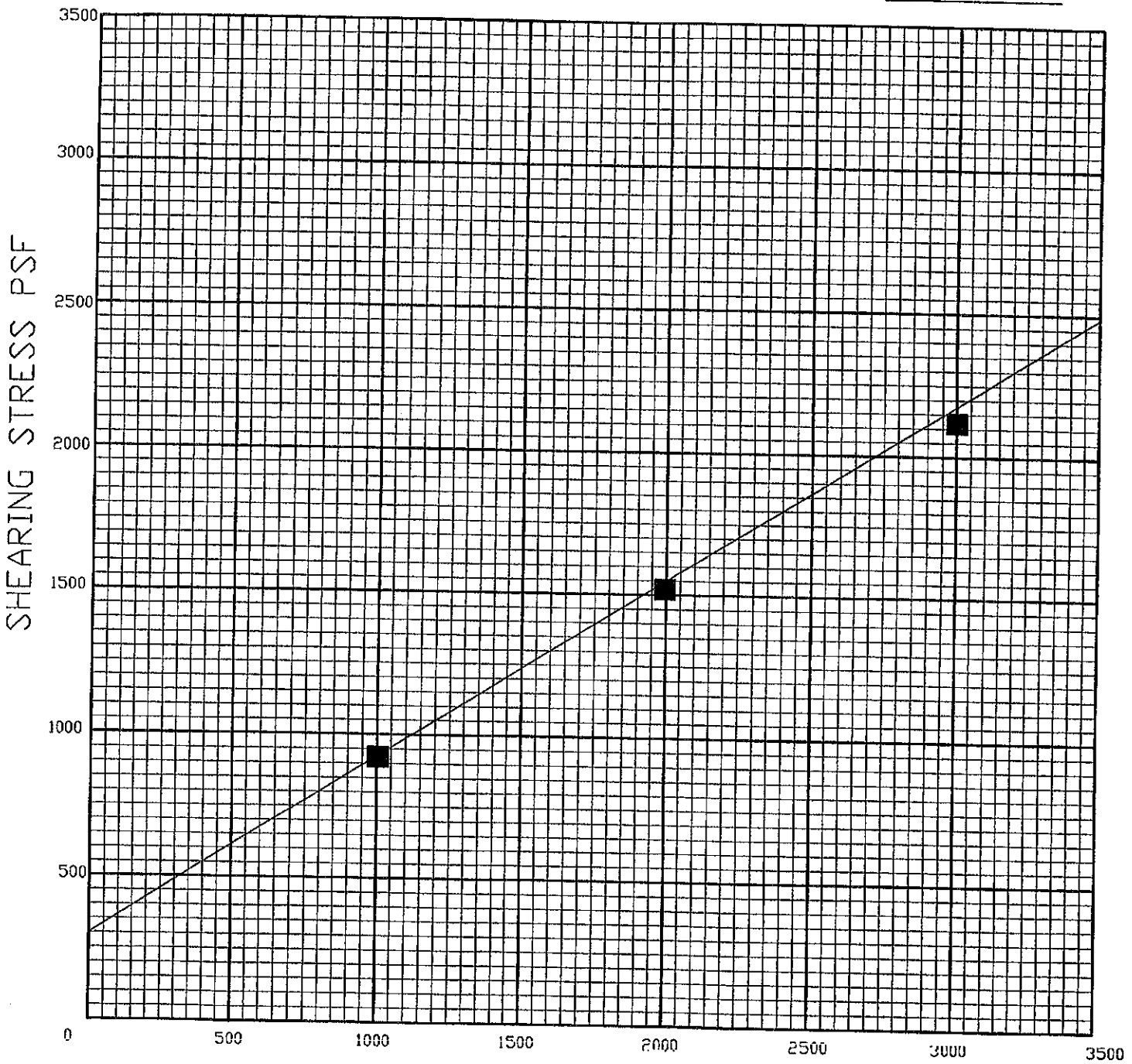
PROJECT NAME: HINES DRIVE JOB No.: GE05076

SOIL CLASSIFICATION: SILTSTONE BEDROCK SAMPLE No.: 1-1 @ 4'

PLOTTED BY: LGL DATE: 1-20-06 CHECKED BY: EPN

Ws 28.1 % Wf 5.1 % γ_d 101.6 PCF C 300 PSF φ 30 °

UNDISTURBED _____ REMOLDED _____ RESIDUAL *



NORMAL STRESS PSF

PLATE 4

(PLATE 8 OF ORIGINAL REPORT)

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