

Project No.
6964.002.025

June 15, 2026

Chair Kevin Jenkins
Oakland Area Geologic Hazard Abatement District
1 Frank H Ogawa Plaza, 2nd Floor
Oakland, CA 94612

Subject: Siena Hill Development
Oakland, California

OAKLAND AREA GEOLOGIC HAZARD ABATEMENT DISTRICT MONITORING – SPRING 2026

- References:
1. ENGEO. 2016. Geologic Hazard Abatement District (GHAD) Plan of Control, Siena Hill Development, Oakland Area GHAD, Oakland, California. May 9, 2006; Revised April 26, 2016. Project No. 6964.002.015.
 2. ENGEO. 2025. Oakland Area Geologic Hazard Abatement District, Monitoring, Fall 2025, Siena Hill Development, Oakland, California. December 15, 2025. Project No. 6964.002.024.

Dear Chair Jenkins:

ENGEO is pleased to submit this monitoring report for the Siena Hill development within the Oakland Area Geologic Hazard Abatement District (GHAD). As described in the Oakland Area GHAD Plan of Control (Reference 1), the purpose of this monitoring is to observe and report the conditions of the open space and associated improvements within the Siena Hill development. This monitoring event was completed on April 23, 2026. The last monitoring event was completed on October 1, 2025, and reported in Reference 2.

As shown in Figure 1, attached, the GHAD accepted and provides monitoring and maintenance responsibilities for 10 parcels with completed residences. At this time, the GHAD has not been offered nor accepted monitoring or maintenance responsibilities on the remaining 22 residential parcels and the easement area.

SCOPE OF SERVICES

Our site monitoring included observation of the following items.

- Slopes
- Surface drainage improvements, including storm drain inlets
- Retaining walls and associated subdrain outlets

Slopes

The slopes were observed for noticeable evidence of slope instability, including landslides, mudflows, erosion, diverted drainage, or standing water. In general, the slopes appeared to be performing well.

The irrigation improvements above Lot 1 (79 Siena Drive), as noted in previous reports, are not specifically a part of our GHAD monitoring and maintenance overview. However, we will continue to monitor potential effects these improvements might have on the slope and walls in Lot 1 that are a part of our GHAD monitoring. During our recent monitoring event, we did not observe erosion or slope instability in the area of the irrigated landscape plantings (Site Condition A, Figure 1, Photo 1). We will continue to monitor the bare soil, which can have a higher risk of erosion. In addition, excessive watering or an irrigation leak could lead to erosion or shallow instability on the slope. As of the recent monitoring event, there are no indications of excess run-off or slope instability.

Since August 2017, we observed that backfill behind the retaining wall in Lot 1 was approximately 1 foot lower than the top of the retaining wall. During this monitoring event, this condition remained unchanged. The GHAD has determined that the lower grade elevation behind the wall effectively serves as a catchment area for potential surface erosion that could occur in the future from the slope area mentioned above (Site Condition A).

Since our October 2018 monitoring event, we noted that a shallow erosion gully has formed along the northeastern perimeter of the residence at 67 Siena Drive (Lot 4). As of this monitoring event, the erosion gully condition was unchanged. No standing water, excess debris, or drainage impediment was observed in the erosion gully at the time of our site visit. The GHAD will continue to monitor the erosion gully in the future and will note changes, if any, in future monitoring reports. We will continue to monitor the condition of these areas in future monitoring events.

Storm Drain Inlets

The storm drain inlets located within the accepted parcels were in good condition, containing only minor vegetation and debris. The debris buildup noted during our last survey is no longer present. We will continue to monitor the condition of this area in future monitoring events.

Retaining Walls

In general, the permanent retaining walls within the GHAD and on the off-site easement are in good condition and appear to be performing well. We previously observed hairline cracks in some areas of the retaining walls, but these cracks appear to be cosmetic in nature and have not changed as of this monitoring event. Precipitates were observed adjacent to some of the hairline cracks on the retaining walls from prior seepage but were dry at the time of the recent site visit. During previous visits, we observed minor erosion that has created voids at the base of two soil nail retaining walls. The noted areas are outside of the GHAD-accepted parcels. Currently, the erosion does not appear to affect the integrity of the retaining walls and has not significantly increased since our previous monitoring. Once these parcels are offered for transfer, the GHAD will monitor the wall conditions and make recommendations, as necessary.

A temporary wooden retaining wall is located northwest of the accepted lots along Siena Drive. Although the temporary retaining wall is not located on a GHAD-accepted parcel, we reported our concerns about this retaining wall as early as 2015 due to its poor condition. The temporary retaining wall supports a portion of Siena Drive, the adjacent sidewalk, and possible utilities within the roadway. During our Fall 2019 monitoring event, we observed that a concrete retaining wall was constructed to replace the southeastern segment of the wooden retaining wall. The replaced segment of the retaining wall appears to be performing well as of our most recent monitoring; however, voids were observed in the backfill of the concrete retaining wall and the wall

construction was left incomplete with exposed rebar reinforcement (Site Condition B, Figure 1, Photo 2). The GHAD will continue to monitor the temporary retaining wall conditions during future monitoring events.

During our Spring 2020 monitoring event, we noted that tension cracks had formed behind the remaining segment of the temporary wooden retaining wall adjacent to Siena Drive. The wooden retaining wall was leaning moderately in the downhill direction. In the Fall 2020 monitoring event, we observed that the section of the retaining wall that was leaning was reinforced with wooden buttresses. The tension cracks adjacent to the sidewalk were backfilled and the gravel was refreshed. During our Fall 2025 and Spring 2026 visits, we observed some of these voids increasing behind the wall (Site Condition C, Figure 1, Photos 3 and 4). These voids should be backfilled, and we will continue to monitor the voids and the retaining walls for areas that could potentially impact GHAD-maintained facilities.

If you have any questions concerning the observations made during this reconnaissance, please do not hesitate to contact us.

Sincerely,

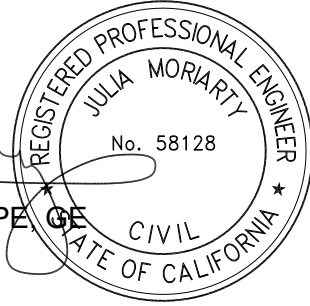
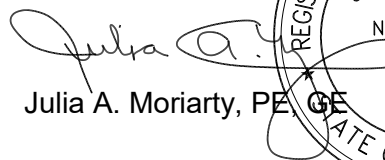
ENGEO Incorporated



Nick Inserra

ni/jam/cb

Attachments: Appendix A
Figure 1 – Site Plan



Julia A. Moriarty, PE, GE

APPENDIX A

**PHOTO 1: Site Condition A: Irrigated Plants and Improvements
Extending from 4312 Rilea Way into Lot 1 (79 Siena Drive)**



PHOTO 2: Site Condition B: Condition of Concrete Retaining Wall



**PHOTOS 3 and 4: Site Condition C: Voids in the Gravel Backfill (left)
and Current State of Wooden Retaining wall (Right)**

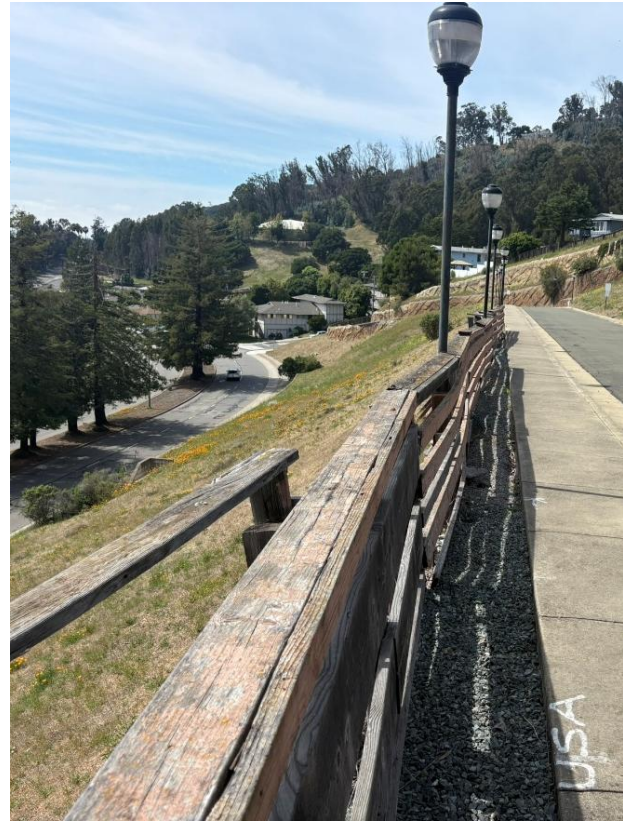
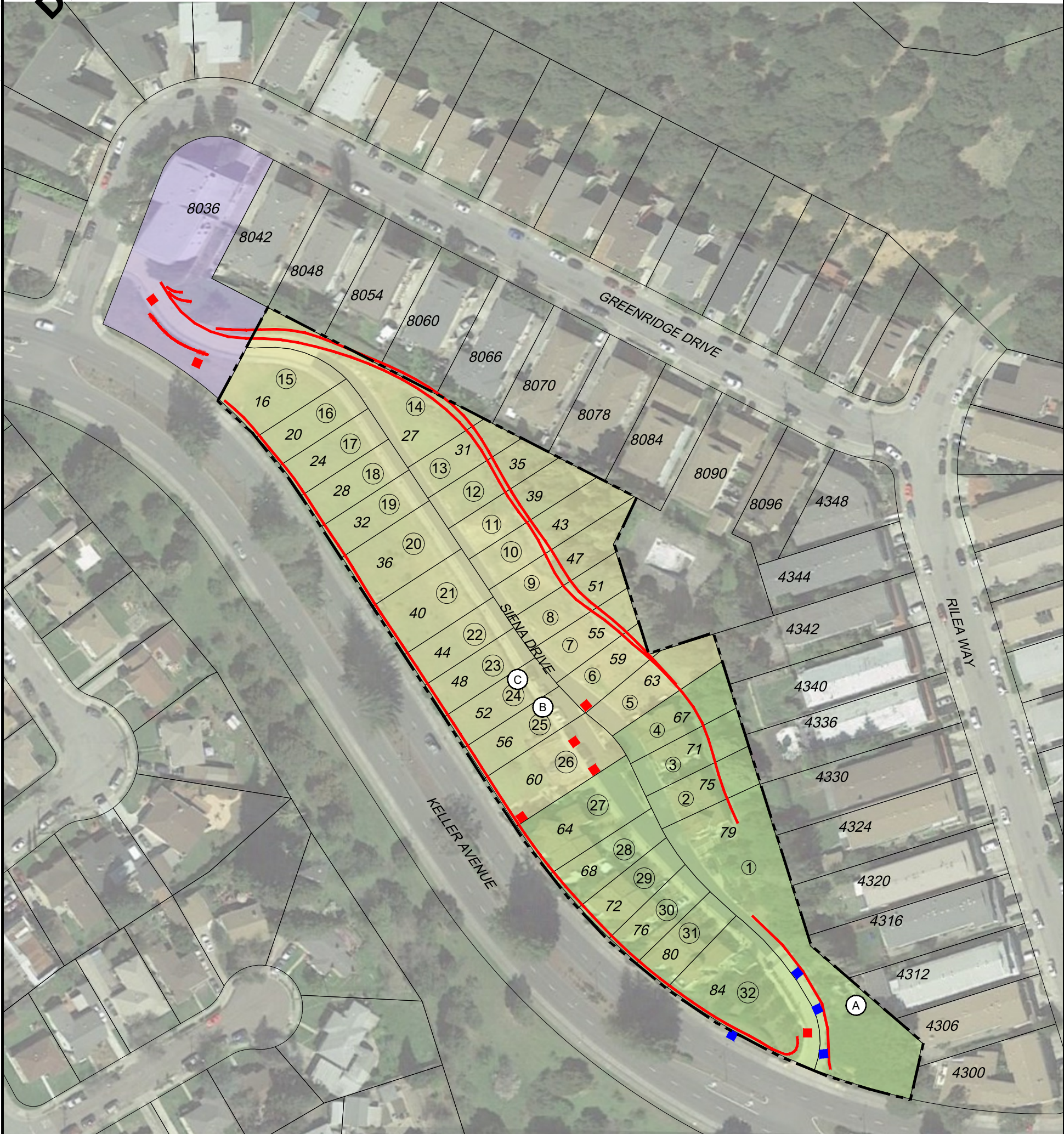


FIGURE 1

Site Plan

G:\drawing\PROJECTS\6964\6964-002025\GHAD\6964-002025-GHAD-1-SitePlan-0626.dwg Plot Date: 6-11-26 Staci Moser

DRAFT



LEGEND

ALL LOCATIONS ARE APPROXIMATE

--- GHAD BOUNDARY

— RETAINING WALL

③② LOT NUMBER

84 ADDRESS

■ RETAINING WALL SUBDRAIN OUTLET

■ STORM DRAIN INLET

GHAD ACCEPTED PARCELS

GHAD NON-ACCEPTED PARCELS

EASEMENT AREA

Ⓓ SITE CONDITION



0 100
FEET

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE AND COUNTY ASSESSOR'S OFFICE



SITE PLAN
OAKLAND AREA GHAD - SIENA HILL
OAKLAND, CALIFORNIA

PROJECT NO.: 6964.002.025

SCALE: AS SHOWN

DRAWN BY: NI

CHECKED BY: JM

FIGURE NO.

1

ORIGINAL FIGURE PRINTED IN COLOR