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STAFF REPORT

Date: January 11, 2024

To: TRPA Hearings Officer

From: TRPA Staff

Subject Taylor Land Capability Challenge

545 Alpine View Drive, Washoe County, NV APN: 131-212-03; TRPA File #: LCAP2023-0309

Proposed Action:

Hearings Officer review and approve the proposed Land Capability Challenge.

Staff Recommendation:

Staff recommends the TRPA Hearings Officer approve the land capability challenge on the subject parcel. The challenge changes Class 3- 27,848 sq. ft. (100 percent of parcel) to Class 4- 27,848 sq. ft. (100 percent of parcel).

Background:

The subject parcel is shown as Class 1a on TRPA Land Capability Overlay Maps (aka Bailey Land Capability maps). The Soil Conservation Service Soil Survey of Tahoe Basin Area, California-Nevada (Rogers, 1974) places the subject parcel in the UmF, Umpa very stony sandy loam, 30 to 50 percent slope mapunit. A land capability verification completed in 2023 (LCAP2023-0309) verified the entire parcel as Class 3-UmE, Umpa very stony sandy loam, 15 to 30 percent slope mapunit. The updated Soil Survey of Tahoe Basin Area, California and Nevada (NRCS, 2007) maps this parcel as mapunit 7152- Jorge very cobbly fine sandy loam, 15 to 30 percent slopes. This parcel has a geomorphic mapping of D2 for Streamcut Volcanic Flowlands; Headlands (Moderate hazard lands). The Umpa soils formed in colluvium and residuum over andesitc bedrock. Umpa soils have a very stony sandy loam A-horizon, with gravelly sandy loam subsurface textures in the upper 40 inches. Hard, fractured andesite is encountered between 20 and 40 inches below ground surface. The Jorge soils formed in colluvium and residuum over andesitic bedrock. Jorge soils have a stony sandy loam A-horizon, with gravelly sandy loam or very gravelly sandy loam subsurface textures in the upper 50 inches. An argillic horizon is present at 33 inches to a depth of 50 inches, where a C horizon is present. Depth to weathered andesitic bedrock is below 60 inches.

A land capability challenge (LCAP2023-0309) was filed by David Herzog on behalf of the land owners Alexander and Julia Taylor on October 13, 2023. A private soil consultant was not retained for this land capability challenge. TRPA consultant, Marchel Munnecke, visited the site on October 19, 2023 with David Herzog. One soil pit was hand excavated and described.

Findings:

One soil pit was excavated by hand to 56 inches. The soil pit was located approximately 35 feet south of the southeast corner of the residence. This soil formed in colluvium and residuum from volcanic parent material over old lake influenced deposits. This parcel ranges in elevation from 6,730 to 6,790 feet. In the report, Pleistocene volcanism and shifting shorelines at Lake Tahoe, California, the shoreline of Lake Tahoe was determined to reach elevations of 6,700 to 6,840 feet at specific times in the past due to volcanic flows plugging of the Truckee River outlet. This parcel is in the elevation band affected by the high lake levels. In many areas of the lake a "stone line" can be found around this elevation where submersion by the lake has caused erosion and deposition. The somewhat jumbled arrangement of the soil and rock fragments in this pit is likely a result of this process. The soil at this pit is characterized by a sandy loam surface texture, with sandy loam, very stony sandy clay loam, and extremely gravelly clay loam subsurface textures. This soil is deep, well drained, and is a member of Soil Hydrologic Group B. The soil taxonomy is Loamy-skeletal, isotic, frigid, Andic Dystroxerepts. The vegetation is an open Jeffrey pine forest with a few incense cedar and landscaped plants. Greenleaf manzanita, huckleberry oak, prostrate ceanothus, antelope bitterbrush, and creeping snowberry are present in the openings.

In the *Soil Conservation Service Soil Survey of Tahoe Basin Area, California-Nevada* (Rogers, 1974), the Umpa soils are moderately deep (20-40 inches over hard bedrock). The soil at this site is somewhat similar to the Umpa soil and has the same taxonomy, but it is deeper than 40 inches to hard bedrock, has finer textures, and is influenced by lacustrine processes. This soil is dissimilar to the Jorge and Tahoma soils because it lacks argillic soil development and is influenced by lacustrine processes. This soil does not meet the range and characteristics of other soils in the 1974 Tahoe Basin Soil Survey, so is an unmapped soil (XXX).

Using Table 4 in the *Land Capability Classification of Lake Tahoe Basin, California-Nevada*, and based on the slopes, this parcel is land capability Class 4 -XXX, 16 to 30 percent slopes.

The table below summarizes the changes in land capability as concluded by this land capability challenge.

Land Capability District	Area (sq. ft.) 2023 LCV	Area (sq. ft.) 2023 LCC
Class 3 (UmE, 15 to 30% slopes)	27,848	0
Class 4 (XXX, 16 to 30 % slopes)	0	27,848
Total Parcel Area	27,848	27,848

BAILEY LAND CAPABILITY CHALLENGE FINDINGS

Site Information	
Assessor's Parcel Numbers: (APN)	131-212-03
TRPA File No. / Submittal Date:	LCAP2023-0309 / 10/19/2023
Owner or Applicant:	Alexander and Julie Taylor
Address:	545 Alpine View Drive, Incline Village, NV 89451

Environmental Setting	
Bailey Soil Mapping Unit ¹ /	UmE (Umpa very stony sandy loam, 15 to 30 percent
Hydrologic Soil Group (HSG) / Land	slopes/ HSG C/ D2 (Streamcut Volcanic Flowlands;
Class / Geomorphic Hazard Unit	Headlands (Moderate hazard lands)
Soil Parent Material	Colluvium over residuum from volcanic rock over
	lacustrine deposits
Slopes and Aspect	21 to 29 percent; sloping southwest.
Elevation and Datum	6,730 to 6,6790 feet, Arnett and Associates,
	6/16/2023 site plan.
Rock Outcrops and Surface	Uniform slope. No rock out crops exposed.
Configuration	
SEZ and Hydrology Source	NA
Vegetation	The vegetation is an open Jeffrey pine forest with a
	few incense cedar and landscaped plants. Greenleaf
	manzanita, huckleberry oak, prostrate ceanothus,
	antelope bitterbrush, and creeping snowberry are
	present in the openings.
Ground Cover Condition	Good (vegetation 55 %, duff/mulch 65 % cover)
Site Features	Residence, garage, retaining walls, stone walkways
	decks, railroad tie steps, decks, A/C driveway.

Field Investigation and Procedures		
Consultant and Address	Marchel Munnecke (TRPA consultant)	
	PO Box 1015	
	Twin Bridges, CA 95735	
TRPA Staff Field Dates	October 19, 2023	
SEZ Mapping / NRCS Hydric Soil	None present	
Number of Soil Pits or Auger Holes	1 pit excavated by hand to 56 inches.	
and Description Depth		
Additional or Repetitive TRPA	NA	
Sample Locations		
Representative Soil Profile	Mrs. Munnecke's soil profile description, see	
Descriptions	attached.	

¹ TRPA currently relies upon the <u>Soil Survey of Tahoe Basin, California-Nevada</u> (Rogers and Soil Conservation Service, 1974), which the Bailey Land Capability system is predicated upon.

AGENDA ITEM NO. V. C.

Areas Not Examined	Residence, garage, retaining walls, stone walkways
	decks, railroad tie steps, decks, A/C driveway.

TRPA Findings		
2006 Soil Survey Map Unit	7152- Jorge very cobbly fine sandy loam, 15 to 30	
	percent slopes (Class 4).	
Consultant Soil Mapping Determination and Rationale	Based on slopes and soil characteristics this parcel is mapped as capability Class 4- XXX, 16 to 30 percent slopes. In the Soil Conservation Service Soil Survey of Tahoe Basin Area, California-Nevada (Rogers, 1974), the Umpa soils are moderately deep (20-40 inches over hard bedrock). The soil at this site is somewhat similar to the Umpa soil and has the same taxonomy, but it is deeper than 40 inches to hard bedrock, has finer textures, and is influenced by lacustrine processes. This soil is dissimilar to the Jorge and Tahoma soils because it lacks argillic soil development and is influenced by lacustrine processes. This soil does not meet the range and characteristics of other soils in the 1974 Tahoe Basin Soil Survey, so is an unmapped soil	
	(XXX).	
Slave Determination	24 to 20 paragraph alongs	
Slope Determination	21 to 29 percent slopes.	
TRPA Conclusion(s)	TRPA concurs with consultants' determination and rationale above.	
Applicable Area	See parcel map for soil delineations.	

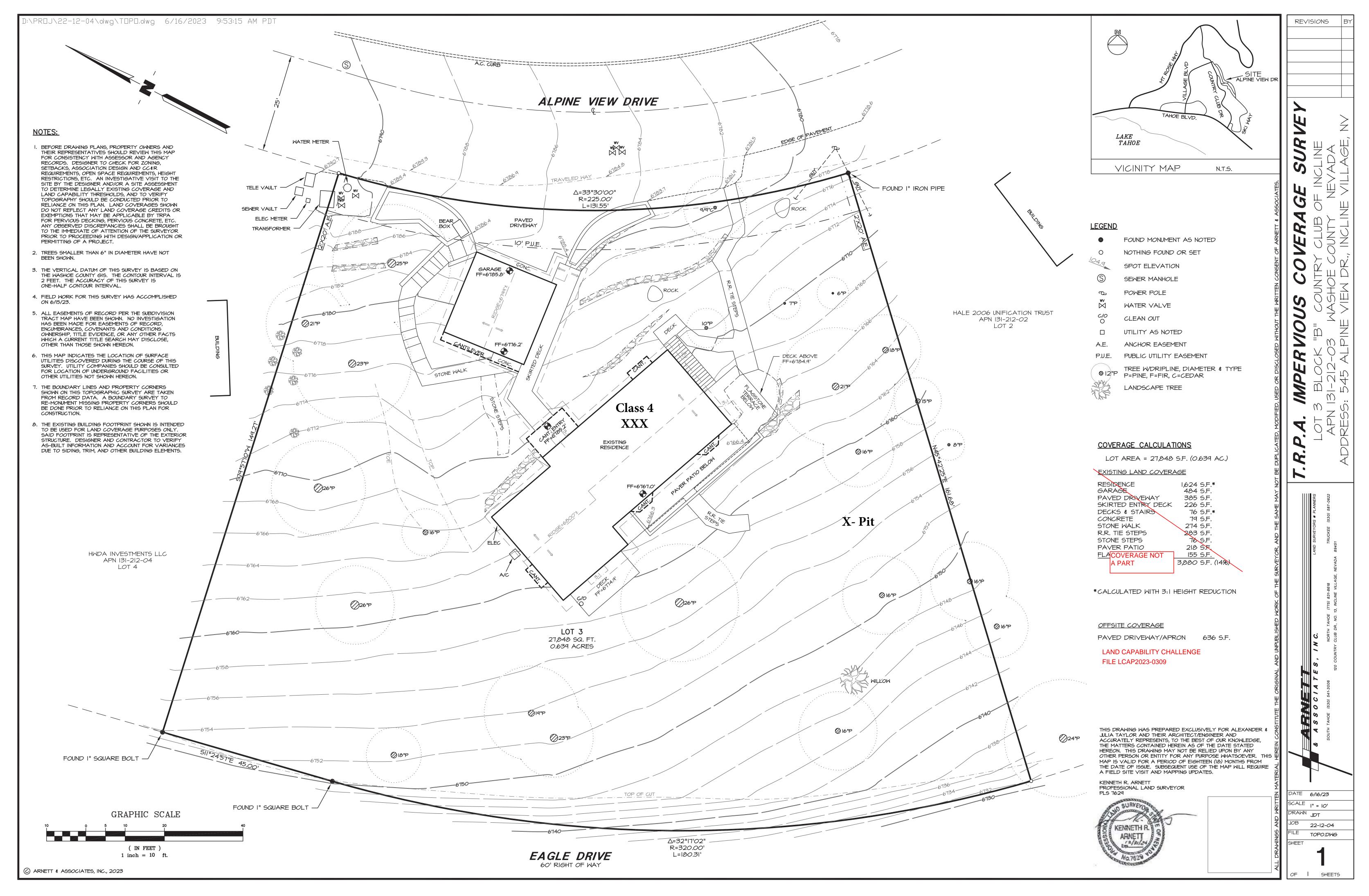
Contact Information:

This memorandum was jointly prepared by Senior Planner, Julie Roll. If you have questions on this Hearings Officer item, please contact Julie Roll, 775-589-5247, or email at iroll@trpa.gov. To submit a written public comment, email publiccomment@trpa.gov with the appropriate agenda item in the subject line. Written comments received by 4 p.m. the day before a scheduled public meeting will be distributed and posted to the TRPA website before the meeting begins. TRPA does not guarantee written comments received after 4 p.m. the day before a meeting will be distributed and posted in time for the meeting.

Attachments:

- A. Parcel Map
- B. Soil Profile Description
- C. Site Photographs

Attachment A Parcel Map



Attachment B Soil Profile Description

Alexander and Julie Taylor Land Capability Challenge

545 Alpine View Drive, Incline Village, Washoe County, NV 89451 APN 131-212-03, LCAP2023-0309

Soil Profile Description Marchel Munnecke Field Date: 10-19-23





Pit 131-212-03:

Soil Classification: Loamy-skeletal, isotic, frigid Andic Dystroxerepts

Soil Series: XXX, Land Capability Class 4.

Drainage Class: Well Drained

Hydrologic Group: B

Parent Material: Colluvium and residuum from volcanic parent material over old lake deposits.

Slope: 25 % **Aspect:** Southwest

Vegetation: Open Jeffrey pine forest with a few incense cedar and landscape plants including

planted aspen. Greenleaf manzanita, huckleberry oak, prostrate ceanothus, antelope

bitterbrush, and creeping snowberry are in the open areas.

Description:

- Oe 0 to 0.5 inch; shrub leaves and pine needle duff
- O.5 to 8 inches; sandy loam, dark grayish brown (10YR 4/2), very dark brown (10YR 2/2) moist; weak fine granular structure; soft, very friable, nonsticky and nonplastic; many very fine and fine roots; many very fine and fine irregular pores; 5 percent gravels; gradual smooth boundary.
- 8 to 20 inches; sandy loam, grayish brown (10YR 5/2), brown (10YR 4/3) moist; moderate medium granular structure; soft, very friable, slightly sticky and slightly plastic; many very fine to very coarse roots; many very fine and fine irregular pores, 10 percent gravel; gradual smooth boundary.
- Bw 20 to 38 inches; very stony sandy clay loam, light gray (10YR 7/1), grayish brown (10YR 5/2) moist; moderate medium subangular blocky structure; hard, very firm, slightly sticky and slightly plastic; common very fine to medium roots; many very fine and fine irregular pores, 15 percent gravel, 20 percent cobbles, and 15 percent stones, gradual wavy boundary.
- C 38 to 56+ inches; extremely gravelly clay loam, light brownish gray (10YR 6/2), grayish brown (10YR 5/2) moist; massive; soft, very firable, slightly sticky and slightly plastic; many fine to coarse roots; many very fine and fine irregular pore, 55 percent gravel and 5 percent stones.

Attachment C Site Photographs

Location 128 Market Street Stateline, NV 89449

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PHOTOGRAPHS (Addendum to APN 131-112-03, January 18, 2024 Staff Summary)





Photo 1 – a. Pit. Photo 1-b. View looking north across parcel toward the residence.





Photo 2 - a. View from road at east corner of parcel looking to the west. Photo 2 - b. View from west to east.



Image 3 – Google Earth image of general area.



Image 4– ESRI Map, 1974 Soil Survey delineations in white, mapunit in yellow/black, and parcel in bold yellow.