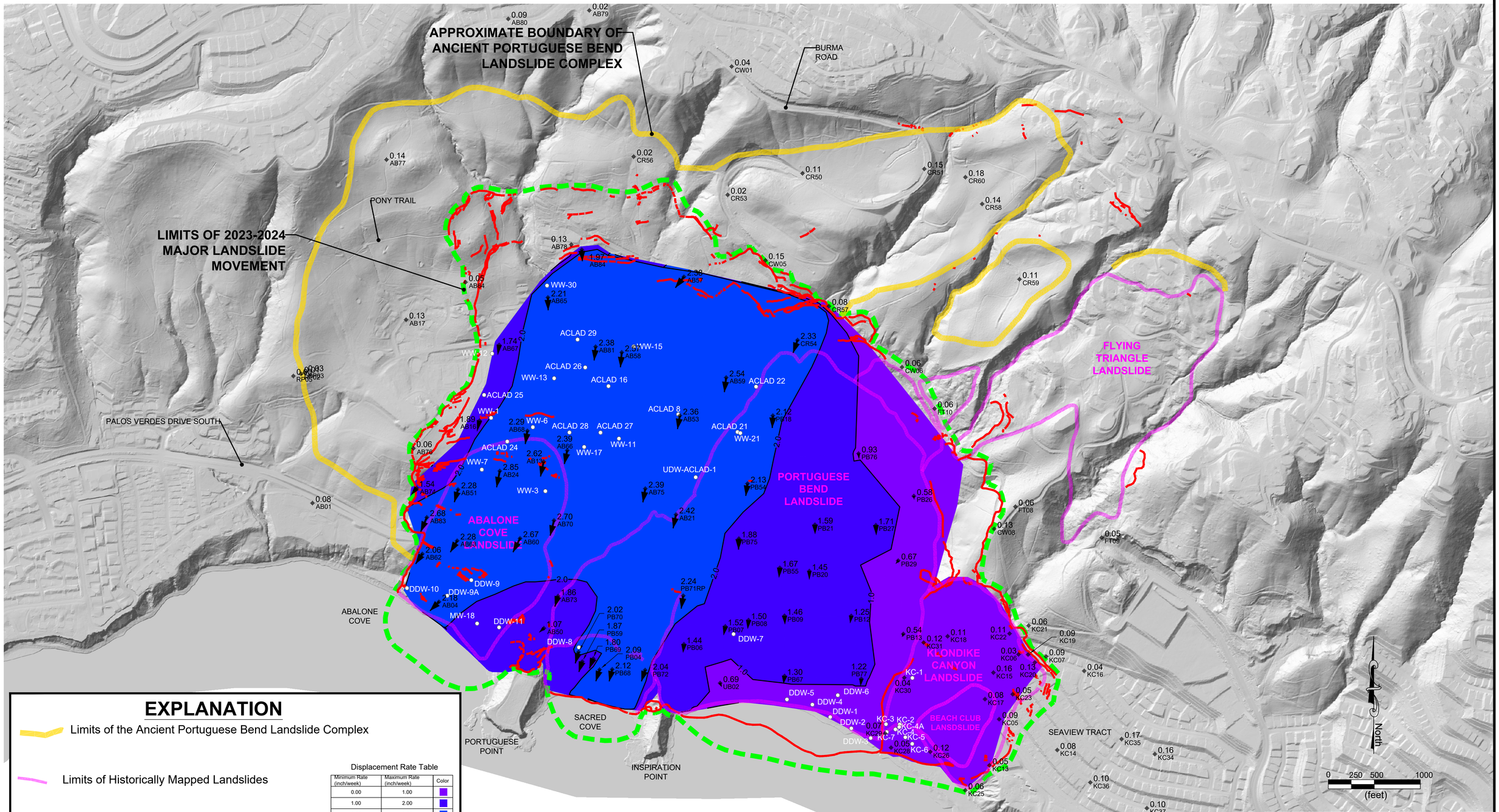

EXPLANATION

Limits of the Ancient Portuguese Bend Landslide Complex

Limits of Historically Mapped Landslides

2023/2024 Landslide Features
(based on CSA field mapping)

Limits of 2023-2024 Major Landslide Movement
(based on CSA field mapping and bathymetry survey)

GPS Monument Displacement Rate
(August 5, 2025 to September 3, 2025)
Displacement Vector Scale 1"= 8"/week

Displacement Rate Table

Minimum Rate (inch/week)	Maximum Rate (inch/week)	Color
0.00	1.00	
1.00	2.00	
2.00	3.00	
3.00	4.00	
4.00	5.00	
5.00	6.00	
6.00	7.00	
7.00	8.00	
8.00	9.00	
9.00	10.00	
10.00	11.00	
11.00	12.00	
12.00	13.00	

Hillshade basemap produced from publicly available LiDAR:
"2015 - 2016 LARIAC Lidar DEM: Los Angeles Region, CA"

COTTON, SHIRES AND ASSOCIATES, INC.
CONSULTING ENGINEERS AND GEOLOGISTS

GPS MONITORING DISPLACEMENT RATE CONTOUR MAP (9/3/25 DATA)
Abalone Cove, Portuguese Bend, Klondike Canyon
RANCHO PALOS VERDES, CALIFORNIA

GEO/ENG BY	SCALE	PROJECT NO.
MP	1"=500'	SC6163
APPROVED BY	DATE	FIGURE NO.
POS	September 12, 2025	1