

TOPOGRAPHIC SURVEY

STATION 20
LOS ALTOS, CALIFORNIA
prepared for:
CALIFORNIA WATER SERVICE COMPANY

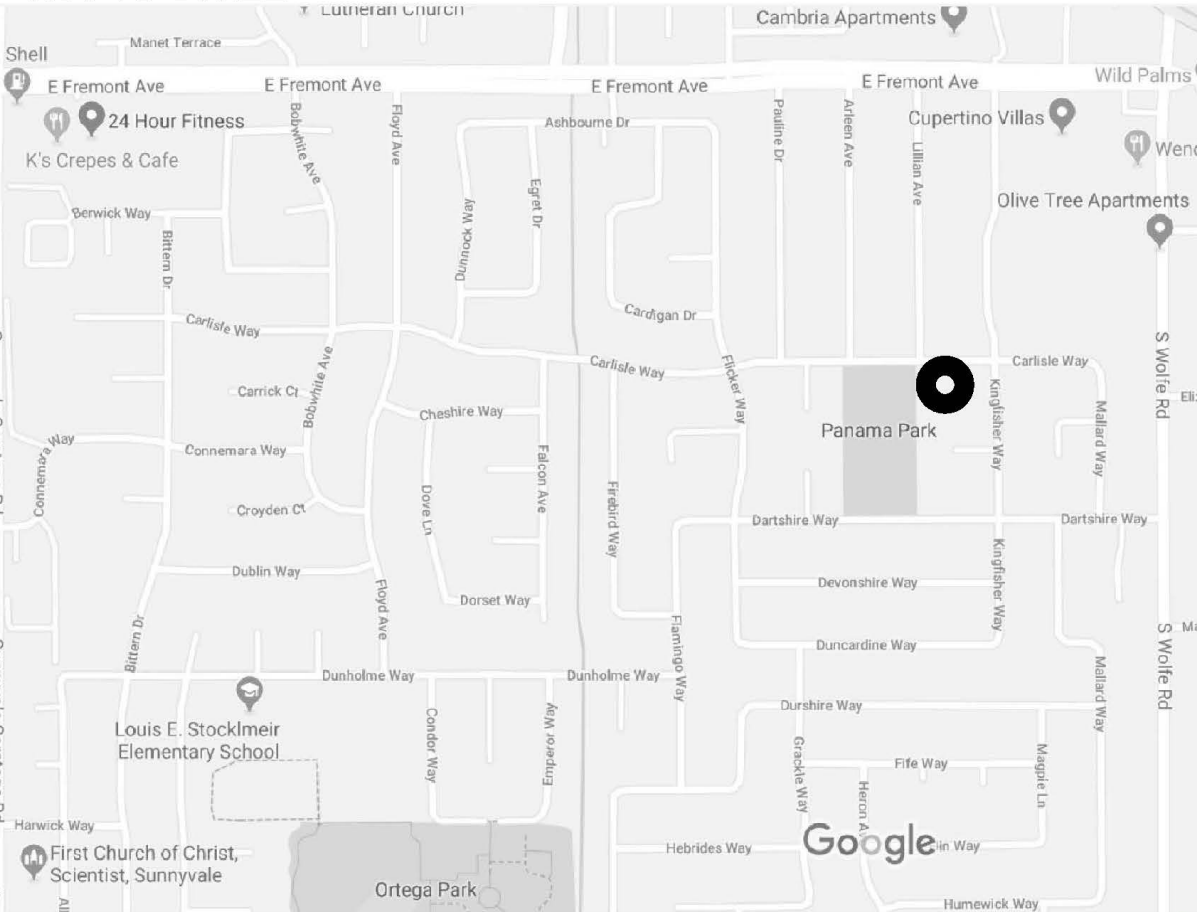
Trees to
be removed
Report

Additional trees that will
need to be removed to
construct well and tank

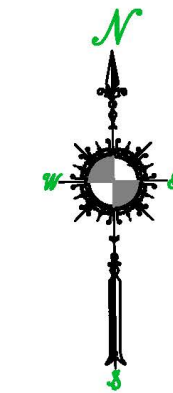
LEGEND (existing features):

- ASPHALT CONCRETE (AC)
- GRAVEL / PATH
- CONCRETE (CONC)
- STRUCTURES(BLDG) w/OVERHANG
- TRUNCATED DOMES
- SPOT ELEVATION & DESCRIPTION
- SURVEY CONTROL POINT
- SURVEY BENCH MARK
- FOUND MONUMENT (as-described)
- NAIL AND TIN SURVEY POINT
- CHISELED "X" IN CONCRETE
- ELECTRICAL
- TELEPHONE OR COMMUNICATIONS
- UTILITY PULL BOX (PB)
- LIGHT (SL)
- UTILITY POLE (UP)
- GUY ANCHOR (GUY)
- OVERHEAD UTILITY LINE(s)
- EXISTING WOOD FENCE
- EXISTING GROUND FLOW LINE
- EXISTING GROUND GRADE BREAK
- WATER METER (WM)
- WATER VALVE (WV)
- FIRE HYDRANT (FH)
- FIRE DEPARTMENT CONNECTION
- FIRE DEPT. KEYPAD
- GAS METER (GM)
- GAS VALVE (GV)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM DRAIN MANHOLE
- DRAIN INLET
- DOOR OPENING
- GUARD POST/ BOLLARD
- ANGLE POINT
- BACK OF WALK
- BEGIN
- CENTERLINE
- CONCRETE
- CONCRETE AT PAVEMENT
- CORNER
- DOOR BEGIN OPENING
- DOOR END OPENING
- EXISTING GROUND OR TURF
- EDGE OF PAVEMENT
- FINISH FLOOR
- FLOWLINE
- FRONT OF WALK
- GRADE BREAK
- HEATING VENT AIR CONDITIONER
- LIP OF GUTTER
- MOUTH
- PAD MOUNT HOUSING
- PAVEMENT
- PULLBOX
- STRIP
- TRE
- TOP BACK OF CURB
- TOP FACE OF CURB
- TOP FACE OF AC DIKE
- TOP GRATE
- TRAFFIC LOOP (AUTO GATE OPENER)
- TRUNCATED DOMES
- VALLEY GUTTER
- TRANSFORMER

VICINITY MAP NOT TO SCALE



THIS REPRESENTED TOPOGRAPHIC SURVEY INFORMATION
WAS PREPARED
IN ACCORDANCE WITH STANDARD SURVEY METHODS. AT THE
REQUEST OF CALIFORNIA WATER SERVICE COMPANY, IT IS
LIMITED TO A REPRESENTATION OF SURFACE FEATURES
WITHIN THE LIMITS OF THE PROJECT. REPRESENTATION OF
BASEMENTS AND UNDERGROUND
UTILITIES WERE NOT A PART OF THE REQUESTED SCOPE
BUT SHOULD BE ASSUMED TO BE
PRESENT.
DATED: MAR. 7, 2019



0 10' 20'
SCALE 1" = 10'



RECORD MAP

TRACT NO. 3157 FAIRWOOD UNIT NO.2
BOOK 144 OF MAPS, AT PAGE 33,
SANTA CLARA COUNTY RECORDER,
CALIFORNIA

SURVEY CONTROL DATUM

HORIZONTAL & VERTICAL:
CALIFORNIA STATE PLANE COORDINATES ZONE 4,
POINT 4505 FOUND NGS CONTROL, PID AA1871
NORTHING: 1947025.86
EASTING: 6101392.17
ELEVATION = 435.30 NAVD 88

10 CONTOUR INTERVAL = 1 FOOT



DATE OF SURVEY	MAR. 2019
ESP JOB No.	19001 TO-6_STA.20
DRAWN BY	ESP
REVISION DATE	04/03/2019
Tel. 559.442.0883	
Fax 559.442.0884	
www.espls.com	

TREE SURVEY DATA

Address: 820 Carlisle Way Sunnyvale, CA 94087

Inspection Date: 9/28/2021

Ratings for health and structure are given separately for each tree according to the table below. IE, a tree may be rated "Good" under the health column For excellent, vigorous appearance and growth, while the same tree may be rated "Fair, Poor" in the structure column if structural mitigation is needed.

KEY	Health	Structure
Good	excellent, vigorous	flawless
Fair - Good	no significant health concerns	very stable
Fair	declining; measures should be taken to improve health and appearance	routine maintenance needed
Fair - Poor	in decline: significant health issues	mitigation needed, it may or may not preserve this tree
Poor	dead or near dead	hazard

TAG NO.	COMMON NAME	DIAMETER AT BREAST HEIGHT"	H'/W'	HEALTH	STRUCTURE	PROTECTED (X)	TREE DISPOSITION	NOTES, RECOMMENDATIONS
401	Chinese pistache	15	22'/25'	fg	fp	x	B	EWR, DWR, SP, multiple leaders at 6', street tree
402	Chinese pistache	6.5	17'/8'	f	f		B	EWR, DWR, SP, thin canopy, street tree
403	Chinese pistache	5	18'/10'	f	fp		B	EWR, DWR, SP, codominant leaders at 7.5', street tree
404	Chinese pistache	6.6	16'/12'	f	fp		B	EWR, DWR, SP, codominant leaders at 6', street tree
405	Chinese pistache	7.5	18'/20'	fg	f		A	EWR, DWR, street tree
406	Chinese pistache	15.3	25'/32'	fg	fp	x	B	EWR, DWR, SP, multiple leaders at 7'
407	Cork oak	20.7	40'/30'	fg	fp	x	B	EWR, DWR, SP, RCE, codominant leaders at 5.5'
408	Olive	8.5/6/4.5	15'/16'	f	fp		B	EWR, DWR, SP, multiple leaders at 2.5'
409	Olive	6/5/4/3/2.5/2	12'/12'	f	fp		B	EWR, DWR, SP, multiple leaders at base
410	Olive	10.6/8.5/8.4	18'/25'	f	fp		B	EWR, DWR, SP, multiple leaders at base
411	Olive	7.5/6/5.5/4/2	18'/28'	f	fp		B	EWR, DWR, SP, multiple leaders at base
412	Olive	7.5/7.5/7	18'/15'	f	fp		B	EWR, DWR, SP, multiple leaders at 2.5'
413	Olive	5/5/3.5/3.5/2.5/2	16'/20'	f	fp		B	EWR, DWR, SP, multiple leaders at base
414	Olive	12.2/8	22'/25'	fg	fp		B	EWR, DWR, SP, multiple leaders at 4'
415	Olive	9.4/7.2	25'/25'	fg	fp		B	EWR, DWR, SP, codominant leaders at 4'
416	Olive	8/7.8/5.5	25'/25'	fg	fp		B	EWR, DWR, SP, codominant leaders at base
417	Olive	9/6.8/4.5	20'/25'	fg	fp		B	EWR, DWR, SP, codominant leaders at base
418	Pepper	15.4	16'/20'	fp	fp	x	C	RR, thin canopy leaning, no hope for recovery
419	Red flowering eucalyptus	28/19/12	45'/30'	f	fp	x	B	EWR, DWR, SP, multiple leaders at base
420	Deodar cedar	17.9	48'/30'	f	f	x	B	EWR, DWR, SP
421	Deodar cedar	23.4	60'/30'	f	f	x	B	EWR, DWR, SP
422	Deodar cedar	14.3	45'/18'	f	f	x	B	EWR, DWR, SP
423	Deodar cedar	22.6	25'/25'	f	fp	x	B	EWR, DWR, SP
424	Red flowering eucalyptus	17/12/7	26'/18'	p	p	x	C	RR, tree is dead
425	Southern live oak	8/5.8/3.5	28'/20'	fg	fp		B	EWR, DWR, SP, multiple leaders at base
426	Southern live oak	8.8	20'/16'	f	fp		B	EWR, DWR, SP, RCE, codominant leaders
427	Southern live oak	7.4	30'/15'	f	fp		B	EWR, DWR, SP, RCE, codominant leaders at 16'
428	Southern live oak	6.3	30'/7'	f	f		B	EWR, DWR, SP, RCE
429	Olive	5/4/4/3.5	25'/12'	f	fp		C	Consider removal, over crowding
430	Cork oak	19.4	22'/25'	f	fp	x	B	EWR, DWR, SP, RCE
431	Southern live oak	8/7.5/4.5	25'/28'	fg	fp		B	EWR, DWR, SP, RCE, multiple leaders at base
432	Southern live oak	9.5/8/8/5.5	28'/25'	f	fp		B	EWR, DWR, SP, RCE, multiple leaders at base
433	Southern live oak	6/6/4/3.5/3/2.5	28'/16'	fg	f		B	EWR, DWR, SP, RCE, 6 trees bunched together
434	Southern live oak	10/3.5	15'/12'	fp	p		C	RR, tree was topped at 5.5'
435	Southern live oak	10.5	20'/18'	f	fp	x	B	EWR, DWR, SP, RCE, multiple leaders at 4.5'
436	Southern live oak	8.5/7	22'/17'	f	fp		B	EWR, DWR, SP, RCE, codominant leaders at base
437	Deodar cedar	18	48'/36'	f	fp	x	B	EWR, DWR, SP, RCE, codominant leaders
438	Deodar cedar	8.5	35'/18'	f	f		B	EWR, DWR, SP, RCE

TREE SURVEY DATA

TAG NO.	COMMON NAME	DIAMETER AT BREAST HEIGHT"	H'/W'	HEALTH	STRUCTURE	PROTECTED (X)	TREE DISPOSITION	NOTES, RECOMMENDATIONS
439	Red flowering eucalyptus	36 @ 2'	50'/35'	f	fp	x	B	EWR, DWR, SP, RCE, multiple leaders at 2'
440	Southern live oak	3.5/3.5/3/2.5	15'/12'	fg	fp		B	EWR, EWR, SP, RCE, multiple leaders
441	Southern live oak	5.5/5	15'/12'	fg	fp		B	EWR, EWR, SP, RCE, codominant leaders at base
442	Southern live oak	3.5/3/3/3/2	18'/12'	fg	fp		B	EWR, EWR, SP, RCE, multiple leaders
443	Southern live oak	6/6/4.5	18'/13'	fg	fp		B	EWR, EWR, SP, RCE, multiple leaders
444	Coast live oak	24/20	35'/20'	fg	fp	x	B	EWR, EWR, SP, RCE, codominant leaders at base
A = Retain, condition warrants long-term preservation							1	
B = Preservable, but may not be worthy of extensive effort or design accommodation							39	
C = Recommend removal due to existing condition and/or structure							4	
TOTAL TREES							44	
PROTECTED TOTAL						15		

KEY TO ACRONYMS

DWR - Dead Wood Removal pruning recommended.

EWR - End Weight Reduction: pruning to remove weight from limb ends, thus reducing the potential for limb failure(s).

RCE - Root Collar Excavation: excavating a small area around a tree that is currently buried by soil or refuse above buttress roots, usually done with a hand shovel.

SP - Structural pruning - removal of selected non-dominant leaders in order to balance the tree.

CD - Codominant Leader, two leaders with a narrow angle of attachment and prone to failure.

LCR-Live Crown Ratio.

RR - Recommend Tree Removal based upon Health or Structure of tree.

Prop - Steel prop in concrete footing recommended to help support a tree/limb.

Cable - Recommend a steel cable(s) be installed to help support a weakly attached limb(s).

TREE ORDINANCE

Measured at 4-1/2feet above ground level

If a single-trunk tree measures 38 inches or greater, it is protected

If a multi-trunk tree has at least one trunk that measures 38 inches or greater, or the measurements of the multi-trunks added together equal at least 113 inches, it is protected.

Common Name	Latin Name
Chinese pistache	<i>Pistacia chinensis</i>
Cork oak	<i>Quercus suber</i>
Olive	<i>Olea europaea</i>
Pepper	<i>Schinus molle</i>
Red flowering eucalyptus	<i>Corymbia ficifolia</i>
Deodar cedar	<i>Cedrus deodara</i>
Southern live oak	<i>Quercus virginiana</i>
Coast live oak	<i>Quercus agrifolia</i>