

Landesign Group

LANDSCAPE ARCHITECTURE
MASTER PLANNING

3344 Gravenstein Hwy. No.
Sebastopol, CA 95472
(707) 829 - 2580

PETER A. WURTZ, RLA
CA # 2166

12/18/2017

Emerald Isle Assisted Care Facility

Gullane Drive, Santa Rosa, CA
APN 173-67-016

REVISED TREE REMOVAL MITIGATION REPORT (DUE TO FIRE)

Total Replacement Trees Required for Entire Proposed Development:
742 - 15 gal. Size or Equivalent mitigation in larger sizes

Total Trees, Overall Site (Before Fire):	917
Trees Killed by Fire:	<u>135</u>
Total Trees, Overall Site (After Fire):	782

Total Trees to Remain:	597
Total Trees to be Removed:	<u>185</u>
Total Trees, Overall Site (After Fire):	782

Percentage of Trees to Remain:	69%
Percentage of Trees to be Removed:	31%

**Total Replacement Trees Required: 742 – 15 gal. Size or Equivalent
Planning Director Approved Mitigation Factor**

Equivalent mitigation for tree planting in larger sizes to be:
(3) 15 gal. trees = (1) 24" box size tree
(7) 15 gal. trees = (1) 36" box size tree

**Proposed Replacement Trees on Site: 742 – 15 gal. Size or Equivalent
(77) 36" box, (68) 24" box. (145 Total Trees equivalent to 743, 15 gal.)**

The above accounts for 100% of work required for Project Completion.
See attached Tree Replacement Mitigation calculations.

Replacement Tree Planting Schedule:917-138

All Mitigation trees to be planted at time of overall project construction.

OSL COMMUNITIES, LLC

City of Santa Rosa, CA

Emerald Isle

TREE REPLACEMENT MITIGATION CALCULATION

APN 173-670-016

Per Chapter 17-24 existing trees over 4" in girth to be removed shall be replaced by (2) 15 gal. min. size trees for each 6 inches, or fraction thereof, of the diameter of the tree to be removed. Per 17-24-0.050(c) the same genus and species as the removed tree (or another species, if approved by the Director) shall be used.

For all of the multi trunk trees, total diameter is calculated by adding the multiple trunk areas together.
(Per the Council of Tree & Landscape Appraisers Guide)

EXISTING TREES TO BE REMOVED ARE AS FOLLOWS:

TREE	SPECIES	TRUNK DIAMETER (In.)
38	Valley Oak/ <i>Quercus lobata</i>	23"
238	Coast Live Oak/ <i>Quercus agrifolia</i>	25"
241	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
243	Coast Live Oak/ <i>Quercus agrifolia</i>	8"
244	Coast Live Oak/ <i>Quercus agrifolia</i>	16/13"
247	Coast Live Oak/ <i>Quercus agrifolia</i>	26" @ 2'
249	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
250	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
251	Coast Live Oak/ <i>Quercus agrifolia</i>	14" @ 3'
256	Coast Live Oak/ <i>Quercus agrifolia</i>	10"
257A	Black Oak/ <i>Quercus kelloggi</i>	8"
263	California Bay/ <i>Umbellularia californica</i>	12" @ 3'
264	Black Oak/ <i>Quercus kelloggi</i>	14"
265	Coast Live Oak/ <i>Quercus agrifolia</i>	19"
289	California Bay/ <i>Umbellularia californica</i>	9" @ 2.5'
331	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
332	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
333	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
335	Coast Live Oak/ <i>Quercus agrifolia</i>	19"
340	Coast Live Oak/ <i>Quercus agrifolia</i>	21"
341	California Bay/ <i>Umbellularia californica</i>	7/5/5"
342	Coast Live Oak/ <i>Quercus agrifolia</i>	7"
343	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
346	California Bay/ <i>Umbellularia californica</i>	4/4/5/5/8"
347	California Bay/ <i>Umbellularia californica</i>	4/5/5/6/6"
348	California Bay/ <i>Umbellularia californica</i>	4/5/6"
349	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
350	Coast Live Oak/ <i>Quercus agrifolia</i>	11"
351	Coast Live Oak/ <i>Quercus agrifolia</i>	10"
352	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
353	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
355	California Bay/ <i>Umbellularia californica</i>	5/19"
356	California Bay/ <i>Umbellularia californica</i>	15"
357	Coast Live Oak/ <i>Quercus agrifolia</i>	8"
358	Coast Live Oak/ <i>Quercus agrifolia</i>	11"
359	Coast Live Oak/ <i>Quercus agrifolia</i>	12"

** Indicates a Dying Tree, Per the Project Arborist, Not Needing Mitigation

H Designates a Heritage Tree as defined in Chapter 17-24

TREE	SPECIES	TRUNK DIAMETER (In.)
360	Coast Live Oak/ <i>Quercus agrifolia</i>	19"
361	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
362	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
363	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
364	California Bay/ <i>Umbellularia californica</i>	15"/10"/7"
365	Coast Live Oak/ <i>Quercus agrifolia</i>	23"
366	Valley Oak/ <i>Quercus lobata</i>	19"
368	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
369	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
370	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
372	California Bay/ <i>Umbellularia californica</i>	6"
373	California Bay/ <i>Umbellularia californica</i>	7"
374	California Bay/ <i>Umbellularia californica</i>	5"/4"
375	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
376	California Bay/ <i>Umbellularia californica</i>	6/6/7"
377	California Bay/ <i>Umbellularia californica</i>	5/6"
379	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
380	Coast Live Oak/ <i>Quercus agrifolia</i>	4/5/11"
381	California Bay/ <i>Umbellularia californica</i>	6/7"
383	Coast Live Oak/ <i>Quercus agrifolia</i>	14"
384	Coast Live Oak/ <i>Quercus agrifolia</i>	14/16"
385	Coast Live Oak/ <i>Quercus agrifolia</i>	14"
389	Black Oak/ <i>Quercus kelloggii</i>	13" @ 3'
392	Black Oak/ <i>Quercus kelloggii</i>	15"
393	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
394	California Bay/ <i>Umbellularia californica</i>	4/7/16"
395	Coast Live Oak/ <i>Quercus agrifolia</i>	8/19"
396	Coast Live Oak/ <i>Quercus agrifolia</i>	19" @ 3'
397	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
398	California Bay/ <i>Umbellularia californica</i>	12"
400	Coast Live Oak/ <i>Quercus agrifolia</i>	11" @ 4'
401	Coast Live Oak/ <i>Quercus agrifolia</i>	20"
408	Coast Live Oak/ <i>Quercus agrifolia</i>	11" @ 4'
409	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
410	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
411	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
419	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
420	Coast Live Oak/ <i>Quercus agrifolia</i>	13"/22"
425	Coast Live Oak/ <i>Quercus agrifolia</i>	7"
426	Black Oak/ <i>Quercus kelloggii</i>	14"
428	Coast Live Oak/ <i>Quercus agrifolia</i>	18"
429	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
430	Coast Live Oak/ <i>Quercus agrifolia</i>	19"
465	Valley Oak/ <i>Quercus lobata</i>	19"
466	Black Oak/ <i>Quercus kelloggii</i>	11"
468	Coast Live Oak/ <i>Quercus agrifolia</i>	8/11"
471	Valley Oak/ <i>Quercus lobata</i>	9"
482	Valley Oak/ <i>Quercus lobata</i>	12"
487	Valley Oak/ <i>Quercus lobata</i>	14"
488	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
610	Coast Live Oak/ <i>Quercus agrifolia</i>	7"
613	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
614	Coast Live Oak/ <i>Quercus agrifolia</i>	11"
615	Coast Live Oak/ <i>Quercus agrifolia</i>	14"

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TREE	SPECIES	TRUNK DIAMETER (In.)
616	Coast Live Oak/ <i>Quercus agrifolia</i>	5"
624	Coast Live Oak/ <i>Quercus agrifolia</i>	6"
625	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
626	Coast Live Oak/ <i>Quercus agrifolia</i>	8"
627	Coast Live Oak/ <i>Quercus agrifolia</i>	6"
628	Coast Live Oak/ <i>Quercus agrifolia</i>	7"
629	Valley Oak/ <i>Quercus lobata</i>	22"
631	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
632	Coast Live Oak/ <i>Quercus agrifolia</i>	20"
633	Coast Live Oak/ <i>Quercus agrifolia</i>	14"
634	Coast Live Oak/ <i>Quercus agrifolia</i>	9"
635	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
636	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
637	Coast Live Oak/ <i>Quercus agrifolia</i>	18"
638	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
639	Black Oak/ <i>Quercus kelloggii</i>	16"
640	California Bay/ <i>Umbellularia californica</i>	15"
642	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
643	California Bay/ <i>Umbellularia californica</i>	17"
644	Coast Live Oak/ <i>Quercus agrifolia</i>	21"
645	Coast Live Oak/ <i>Quercus agrifolia</i>	11"
646	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
647	Black Oak/ <i>Quercus kelloggii</i>	16"
648	California Bay/ <i>Umbellularia californica</i>	11"
649	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
650	Coast Live Oak/ <i>Quercus agrifolia</i>	13"
651	Coast Live Oak/ <i>Quercus agrifolia</i>	14"
652	Coast Live Oak/ <i>Quercus agrifolia</i>	14"
661	California Bay/ <i>Umbellularia californica</i>	4/5/5/5/6"
662	Coast Live Oak/ <i>Quercus agrifolia</i>	18"
663	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
664	Coast Live Oak/ <i>Quercus agrifolia</i>	6"
665	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
668	California Bay/ <i>Umbellularia californica</i>	5"
672	California Bay/ <i>Umbellularia californica</i>	5/6"
674	California Bay/ <i>Umbellularia californica</i>	5"/5"
678	Coast Live Oak/ <i>Quercus agrifolia</i>	10"
679	Coast Live Oak/ <i>Quercus agrifolia</i>	16"
681	Buckeye/ <i>Aesculus californica</i>	5"
682	Coast Live Oak/ <i>Quercus agrifolia</i>	11"
683	Black Oak/ <i>Quercus kelloggii</i>	11"
684	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
686	Coast Live Oak/ <i>Quercus agrifolia</i>	7"
689A	Buckeye/ <i>Aesculus californica</i>	5"
741	Coast Live Oak/ <i>Quercus agrifolia</i>	12/13/15/16"
750	Coast Live Oak/ <i>Quercus agrifolia</i>	15"
751	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
752	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
797	Coast Live Oak/ <i>Quercus agrifolia</i>	12"
798	Black Oak/ <i>Quercus kelloggi</i>	16"
799	Coast Live Oak/ <i>Quercus agrifolia</i>	13"/13"
800	Coast Live Oak/ <i>Quercus agrifolia</i>	5/10/14/17"
801	Coast Live Oak/ <i>Quercus agrifolia</i>	17"
901	California Bay/ <i>Umbellularia californica</i>	5/9" @ 2'

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TREE	SPECIES	TRUNK DIAMETER (In.)
903	Coast Live Oak/ <i>Quercus agrifolia</i>	10"
904	Coast Live Oak/ <i>Quercus agrifolia</i>	6"
906	California Bay/ <i>Umbellularia californica</i>	6" (+ small stems)
910	California Bay/ <i>Umbellularia californica</i>	4"
912	California Bay/ <i>Umbellularia californica</i>	4/5/5"
914	California Bay/ <i>Umbellularia californica</i>	4/4"
919	California Bay/ <i>Umbellularia californica</i>	5"
921	California Bay/ <i>Umbellularia californica</i>	4/5/5"
928	California Bay/ <i>Umbellularia californica</i>	6"
931	California Bay/ <i>Umbellularia californica</i>	4/6/6"
932	California Bay/ <i>Umbellularia californica</i>	4" (+ small stems)
940	California Bay/ <i>Umbellularia californica</i>	5"
941	Buckeye/ <i>Aesculus californica</i>	4/5"
946	Buckeye/ <i>Aesculus californica</i>	5" @ 3'
949	Buckeye/ <i>Aesculus californica</i>	7"
951	Coast Live Oak/ <i>Quercus agrifolia</i>	8"
952	Coast Live Oak/ <i>Quercus agrifolia</i>	5"
956	California Bay/ <i>Umbellularia californica</i>	5"
957	California Bay/ <i>Umbellularia californica</i>	4" (+ small stems)
958	California Bay/ <i>Umbellularia californica</i>	5"
959	California Bay/ <i>Umbellularia californica</i>	5" (+ small stems)
960	California Bay/ <i>Umbellularia californica</i>	5" (+ small stems)
962	Coast Live Oak/ <i>Quercus agrifolia</i>	8"
963	California Bay/ <i>Umbellularia californica</i>	5/6"
967	Coast Live Oak/ <i>Quercus agrifolia</i>	4/4/7/9/10"
968	California Bay/ <i>Umbellularia californica</i>	4"
969	California Bay/ <i>Umbellularia californica</i>	6"
970	California Bay/ <i>Umbellularia californica</i>	5"
971	California Bay/ <i>Umbellularia californica</i>	4/4" (+ small stems)
972	California Bay/ <i>Umbellularia californica</i>	4/5" (+ small stems)
973	California Bay/ <i>Umbellularia californica</i>	5/5/6"
974	Coast Live Oak/ <i>Quercus agrifolia</i>	5"
975	Coast Live Oak/ <i>Quercus agrifolia</i>	6/9"
976	California Bay/ <i>Umbellularia californica</i>	5"
977	California Bay/ <i>Umbellularia californica</i>	4"
978	California Bay/ <i>Umbellularia californica</i>	6"
979	California Bay/ <i>Umbellularia californica</i>	4"
980	California Bay/ <i>Umbellularia californica</i>	4/4" (+ small stems)
981	California Bay/ <i>Umbellularia californica</i>	4" (+ small stems)
982	Coast Live Oak/ <i>Quercus agrifolia</i>	6"
984	Buckeye/ <i>Aesculus californica</i>	4

Total Replacement Trees Required: (total trunk dia.)2225 / 6 = 371 x 2 = 742

Heritage Trees are defined per Chapter 17-24 as follows:

<u>Species of Tree</u>	<u>Diameter</u>	<u>Circumference</u>
Valley Oak/ <i>Quercus lobata</i>	6"	19"
Coast Live Oak/ <i>Quercus agrifolia</i>	18"	57"
Black Oak/ <i>Quercus kelloggii</i>	18"	57"
California Bay/ <i>Umbellularia californica</i>	24"	75"

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FOUNTAINGROVE GOLF COURSE
APN 173-670-005

FOUNTAINGROVE GOLF COURSE
APN 173-670-005






FOUNTAINGROVE GOLF COURSE
APN 173-670-009

FOUNTAINGROVE GOLF COURSE
APN 173-670-031

FOUNTAINGROVE GOLF COURSE
APN 173-670-031

OAKS AT FOUNTAINGROVE
HOMEOWNERS ASSOCIATION
DN 94-086079
APN 173-730-048

LEGEND

- TREE TO BE SAVED PER CITY STANDARD  TREE TAG NUMBER
- TREE TO BE REMOVED  TREE TAG NUMBER
- TREE FIRE DAMAGED TO BE REMOVED  TREE TAG NUMBER
- TREE WITHOUT TREE TAG  DESCRIPTION
- TREE PROTECTION FENCING  TP

TREE PROTECTION SUMMARY

PROJECTED TREE REMOVAL	323
PROJECTED LIVE TREE REMOVAL	174
MINIMUM TOTAL NUMBER OF TREES SURVEYED AND INVENTORIED	915

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EMERALD ISLE ASSISTED LIVING

GULLANE DRIVE
SANTA ROSA, CALIFORNIA

REVISIONS		
NO.	DATE	DESCRIPTION

ON A FULL SCALE DRAWING, LENGTH OF BAR BELOW IS 1 INCH. IF BAR MEASURES LESS THAN 1 INCH, THIS SHEET WAS PLOTTED AT A REDUCED SCALE, WHICH MAY REQUIRE ADJUSTMENT OF SCALE(S) SHOWN ON DRAWING.

PROJECT	DATE
4081.03	DECEMBER 2017
DRAWN BY	CHECKED BY
J.C.H.	PVB

TREE PROTECTION PLAN

SHEET NO.

2 OF **2**

12-14-17 Henry \4081.dwg 4081_03.dwg 031 BASE Tree Protection.dwg TAB TREE PROT SHEET 2