





ARBORIST EVALUATION

Only a single native tree #56, a 27' Coast Live Oak, is present on site. The Oak is to be removed due to conflicts with proposed improvements.

The bulk of the trees on site are ornamental species that have either been planted or volunteered.

TREE PRESERVATION AND REMOVAL

-  TREE TO BE PRESERVED
-  TREE TO BE REMOVED, FOR CONSTRUCTION OR PER FIRE DEPARTMENT REQUIREMENTS
- Tree number from Project Arborist Report Sept. 9th 2014
- Tree species

TREE PROTECTION NOTES

1. Prior to initiation of any construction activity in the area, including demolition or grading, temporary protective fencing shall be installed at each site tree in the immediate vicinity of construction. Fencing is to be located at a minimum of one foot beyond the canopy drip line.
2. Fencing shall be a minimum of four foot height at all locations, and shall form a continuous barrier without entry points and around all individual trees, or groups of trees. Barrier type fencing such as chain link or tensar plastic fencing is suggested, but any fencing system which adequately prevents entry of equipment and activity will be acceptable. Post and cable fencing is not recommended. Fencing shall be installed in a professional manner with adequate uprights and appropriate attachments. Concrete footings are not required. Any encroachment into the drip line of for fencing or construction purposes should be discussed and agreed upon in advance.
3. The fencing shall serve as a barrier to prevent drip line encroachment of any type by construction activities, equipment, material storage, and personnel.
4. Contractors and subcontractors shall direct all equipment and personnel to remain outside the fenced area at all times until project is complete. Instruction shall be given as to the purpose and the importance of fencing and preservation.
5. Fencing should remain in place and not be removed until ALL construction activities are completed. Temporary access may be granted to facilitate work under specific circumstances when discussed and agreed upon in advance.
6. Roots of single standing trees often extend two-three times the distance of the actual drip line. As much area around the circumference of the tree beyond the drip line should have minimum instruction to further ensure tree survival and health.

STAMP:

JOB NUMBER: 1801
 DRAWN BY: JAB
 CHECKED BY: CT
 DATE: 06/28/20
 SCALE: PER PLANS
 TITLE:
 TREE REMOVAL AND PRESERVATION PLAN

SHEET:
L.01
 PRELIMINARY - Not for Construction -
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CARITAS HOMES SITE LEGEND

- ① COVERED GATHERING AREA
- ② GATHERING AREA UNDER TREE CANOPY
- ③ SMALL LAWN AREA
- ④ PET RELIEF AREA
- ⑤ STAIRS TO PODIUM LEVEL TERRACE
- ⑥ RAISED PODIUM PLANTERS
- ⑦ PODIUM SEATING AREAS
- ⑧ MEWS TRELLIS AND GATE
- ⑨ TENANT PORCH
- ⑩ TENANT VEGETABLE GARDEN PLANTER
- ⑪ GARAGE ENTRY
- ⑫ LOADING ZONES
- ⑬ PROPERTY LINE

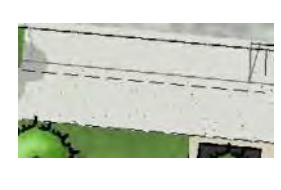
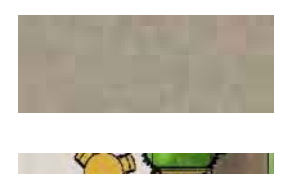


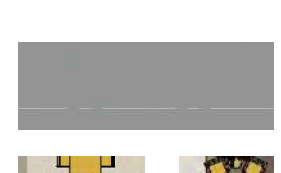

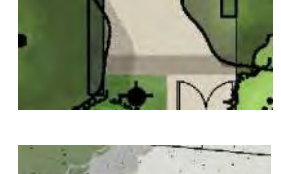

CARITAS CENTER SITE LEGEND


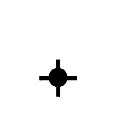

- ⑬ NAVIGATION CENTER ENTRY COURTYARD
- ⑭ NAVIGATION CENTER COURTYARD
- ⑮ FAMILY SUPPORT CENTER COURTYARD
- ⑯ GARBAGE ENCLOSURE
- ⑰ PLAZA
- ⑱ SHADE TRELLIS
- ⑲ PROPERTY LINE
- ⑳ DROP OFF
- ㉑ CITY BUS STOP

PLANTING LEGEND

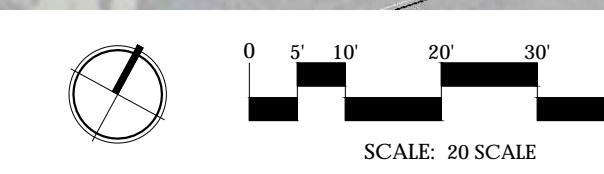
-  LARGE SHADE TREE
-  LARGE | MEDIUM TREE
-  SMALL TREE
-  NEW STREET TREE - HEIGHT LIMIT 15'-0" PER FIRE DEPT.
-  EXISTING TREE TO REMAIN
-  PLANTING
-  VEGETATED STORM WATER PLANTING
-  LAWN TURF PLANTING

PAVEMENT & SITE LEGEND

-  SIDEWALK PAVEMENT - 2 FT SQUARE SCORING
 -  ENHANCED PAVEMENT - INTEGRAL COLOR CONCRETE
 -  ENHANCED PODIUM PAVEMENT - CONCRETE, WOOD, & PORCELAIN
 -  CONCRETE PAVEMENT - INTEGRAL COLOR
 -  PERMEABLE UNIT PAVERS
 -  AC PAVEMENT
 -  SITE FURNISHINGS
 -  LANDSCAPE WALLS
- (5) BENCH - BLACK COLOR WITH BACK AND CENTER ARMRESTS

-  BIKE PARKING - 18 SPACES TOTAL
-  SITE LIGHTING - POLE LAMP
-  SITE LIGHTING - PARKING LOT POLE LAMP

CARITAS VILLAGE SITE PLAN



CHARACTER IMAGERY



GREEN, LUSH HEALING GARDEN CONCEPT



BUILT GATHERING AREAS



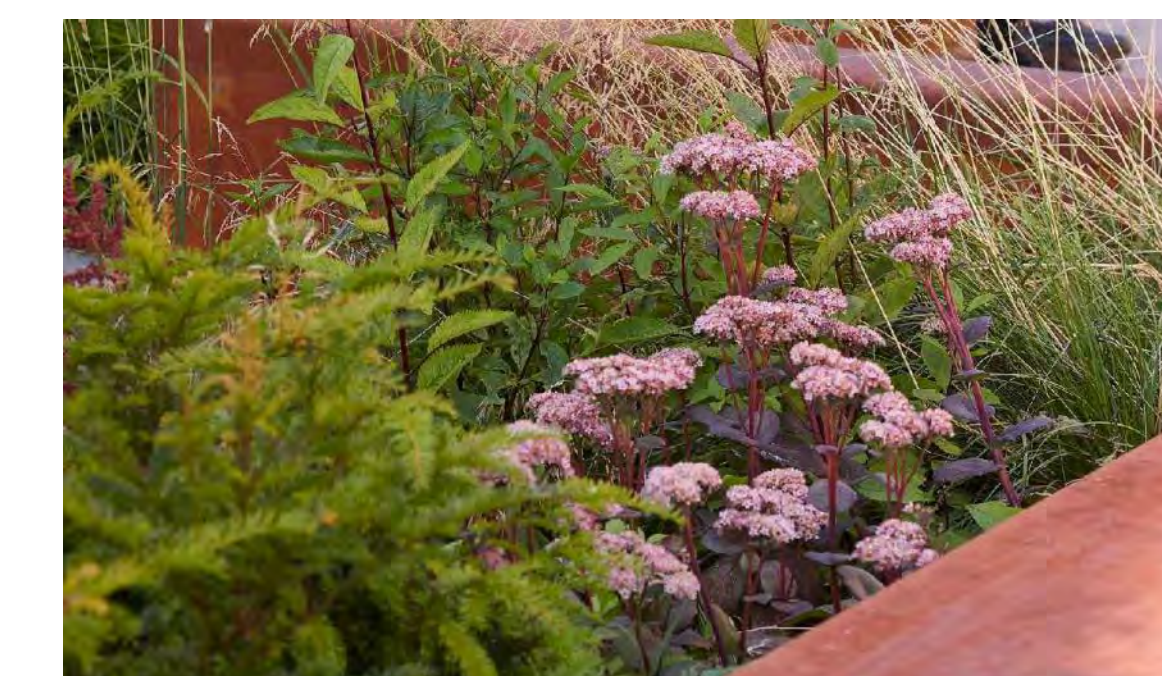
SHADE STRUCTURES



FLOWERING VINES ON TRELLISES



TENANT VEGETABLE GARDEN



DROUGHT TOLERANT, LOW MAINTENANCE, AND VARIED PLANTING

PLANTING CANDIDATE LIST

STREET FRONTAGE AND COURTYARDS	SIZE	WUCOLS	MEWS AND PODIUM PLANTERS	SIZE	WUCOLS	STORM WATER	SIZE	WUCOLS
Achillea millefolium 'Sonoma Coast'	1 gal	Low	Abutilon striatum	5 gal	Medium	Asclepias fascicularis	1 gal	Low
Agave 'Mr. Ripple'	5 gal	Low	Aristea inaequalis	1 gal	Low	Bidens laevis	1 gal	Medium
Agave stricta	5 gal	Low	Aspidistra elatior	1 gal	Low	Chondropetalum t. 'El Campo'	1 gal	Low
Agave weberii	5 gal	Low	Banksia ericifolia 'Fireworks'	5 gal	Low	Iris douglasiana 'Canyon Snow'	1 gal	Low
Agave 'Whale's Tongue'	5 gal	Low	Beschorneria albiflora	5 gal	Low	Juncus patens 'Elk Blue'	1 gal	Low
Akebia quinata	5 gal	Medium	Beschorneria sp. 'Queretaro'	1 gal	Low	Lomandra l. 'Breeze'	1 gal	Low
Anchusa 'Dropmore'	1 gal	Medium	Bouteloua gracilis 'Blonde Ambition'	1 gal	Low	SITE TREES		
Arctostaphylos d. 'Howard McMinn'	5 gal	Low	Buddija lindleyana	1 gal	Low	Acacia stenophylla	15 gal	Low
Atriplex lentiformis ssp. Breweri	5 gal	Very Low	Callistemon 'Green John'	5 gal	Low	Acer Circinatum	15 gal	Medium
Beschorneria albiflora	5 gal	Low	Callistemon 'Little John'	5 gal	Low	Acer griseum	24" Box	Medium
Bulbine 'African Yellow'	1 gal	Low	Callistemon viridiflorus	5 gal	Low	Acer macrophyllum	15 gal	Medium
Callistemon 'Cane's Hybrid'	5 gal	Low	Choisya ternata	5 gal	Medium	Arbutus 'Marina'	15 gal	Low
Callistemon 'Green John'	5 gal	Low	Cordyline 'Renegade'	1 gal	Low	Cercidiphyllum japonicum	36" Box	Medium
Callistemon viridiflorus	1 gal	Low	Dianella tasmanica	1 gal	Medium	Cupressus cashmeriana	24" Box	Medium
Cannomais grandis	1 gal	Medium	Dicksonia antarctica	1 gal	High	Fagus sylvatica 'Dawycck Green'	24" Box	Medium
Choisya ternata	5 gal	Medium	Echeveria agavoides	1 gal	Low	Ginkgo biloba 'Fastigiata'	24" Box	Low
Chondropetalum ch. 'El Campo'	1 gal	Low	Echeveria imbricata	1 gal	Low	Lyonothamnus f. ssp. Asplenifolius	15 gal	Low
Clematis armandii	5 gal	Medium	Grevillea victoriae	5 gal	Low	Luma apiculata	15 gal	Medium
Correa sp.	1 gal	Low	Heuchera maxima	1 gal	Medium	Parrotia persica	15 gal	Medium
Dasyliiron longissimum	5 gal	Low	Inula magnifica	1 gal	Medium	Podocarpus gracillior	15 gal	Medium
Dodonaea viscosa (green)	5 gal	Low	Iris confusa	1 gal	Medium	Quercus agrifolia	24" Box	Low
Echeveria sp.	1 gal	Low	Mahonia x media 'Marvel'	5 gal	Medium	Quercus lobata	24" Box	Low
Eriogonum umbellatum 'Shasta Sulfur'	1 gal	Low	Mahonia x 'Soft Caress'	2 gal	Low	Pterostyrax hispida	5 gal	Medium
Garrya elliptica	5 gal	Low	Manfreda maculosa	1 gal	Low	Ulmus parvifolia 'Allee'	24" Box	Low
Grevillea 'Jade Mound'	1 gal	Low	Melianthus major 'Purple Haze'	1 gal	Low	Ulmus parvifolia 'BSNUPF'	24" Box	Low
Grevillea victoriae	5 gal	Low	Nandina domestica 'Emerald Sea'	5 gal	Low	Ulmus parvifolia 'UPMTF'	24" Box	Low
Hesperaloe parvifolia 'Yellow'	5 gal	Low	Nandina domestica 'Flirt'	2 gal	Low	X chitalpa tashkentensis	15 gal	Low
Heuchera maxima	1 gal	Medium	Nandina domestica 'Lemon Lime'	2 gal	Low	Zelkova serrata	24" Box	Low
Holodiscus discolor 'Oceanspray'	1 gal	Low	Olea europaea 'Little Ollie'	15 gal	Low	STREET TREES		
Humulus lupulus	1 gal	Low	Otatea acuminata ssp. Aztecorum	5 gal	Medium	Acer buergeranum	24" Box	Medium
Kniphofia thomsonii	1 gal	Low	Pelargonium sidoides	1 gal	Low	Cercis canadensis	24" Box	Medium
Laurus nobilis 'Emerald Wave'	5 gal	Low	Rudbeckia californica	1 gal	Medium	Chinoanthus retusa	24" Box	Medium
Lomandra longifolia 'Breeze'	1 gal	Low	Salvia spathacea 'Las Pillitas'	1 gal	Low	Koeleruteria bipinnata	24" Box	Low
Mahonia x media 'Marvel'	5 gal	Medium	Sedum palmeri	1 gal	Low	Lagerstroemia indica cv.	24" Box	Low
Mahonia x 'Soft Caress'	2 gal	Low	Sedum spathulifolium	1 gal	Low	Laurus nobilis 'Saratoga'	24" Box	Low
Manfreda maculosa	1 gal	Low	Sedum spurium	1 gal	Low	Parrotia persica	24" Box	Medium
Melianthus major 'Purple Haze'	1 gal	Low	Westringia 'Morning Light'	2 gal	Low	Pistacia chinensis	24" Box	Low
Nandina domestica 'Emerald Sea'	5 gal	Low	Yucca gloriosa	1 gal	Low			
Nandina domestica 'Lemon Lime'	2 gal	Low						
Olea europaea 'Little Ollie'	15 gal	Low	PLANTERS					
Panicum virgatum 'Dallas Blues'	1 gal	Medium	Aeonium sp.	4"	Low			
Parthenocissus tricuspidata 'Veitchii'	5 gal	Low	Beschorneria sp. 'Queretaro'	4"	Low			
Phormium 'Dark Delight'	1 gal	Low	Bulbine frutescens	4"	Low			
Phormium 'Sea Jade'	1 gal	Low	Calandrinia spectabilis	4"	Low			
Phormium tenax green	5 gal	Low	Cotyledon orbiculata var. oblonga 'Flavida'	4"	Low			
Polystichum munitum	1 gal	Medium	Dichondra 'Silver Falls'	4"	Medium			
Puya mirabilis	1 gal	Low	Dyckia 'Burgundy Ice'	4"	Low			
Rhamnus alaternus	5 gal	Low	Echeveria agavoides	4"	Low			
Ribes viburnifolium	1 gal	Low	Echeveria imbricata	4"	Low			
Rosa chinensis 'Mutabilis'	5 gal	Medium	Graptopetia 'Fred Ives'	4"	Low			
Rosa rugosa	5 gal	Low	Grevillea 'Jade Mound'	4"	Low			
Rosa 'Cecile Brunner'	5 gal	Low	Grevillea juniperina 'Gold Cluster'	4"	Low			
Rosmarinus officinalis 'Roman Beauty'	5 gal	Low	Lomandra l. 'Breeze'	4"	Low			
Salvia clevelandii	1 gal	Low	Puya mirabilis	4"	Low			
Salvia officinalis	1 gal	Low	Sedum spathulifolium	4"	Low			
Salvia reptans 'Giant'	1 gal	Low	Sedum palmeri	4"	Low			
Salvia 'Phyllis Fancy'	1 gal	Medium	Sedum spectabile	4"	Low			
Salvia 'Waverly'	1 gal	Medium	Sedum spurium	4"	Low			
Sarcococca sp.	5 gal	Low						
Sideritis cypria	1 gal	Low						
Stipa gigantea	1 gal	Low						
Vitis californica	5 gal	Low						
Westringia fruticosa	5 gal	Low						
Woodwardia fimbriata	1 gal	Medium						
Yucca filamentosa 'Hairy'	1 gal	Low						
Yucca gloriosa	5 gal	Low						
Yucca rigida	5 gal	Low						

PLANTING IMAGERY



Achillea millefolium



Akebia quinata



Aspidistra elatior



Beschorneria albiflora



Bidens laevis



Bouteloua gracilis 'Blonde Ambition'



Calandrinia spectabilis



Callistemon 'Cane's Hybrid'



Cannomais grandis



Chondropetalum t. 'El Campo'



Cupressus cashmeriana



Dicksonia antarctica



Dodonaea viscosa



Echeveria agavoides



Eriogonum u. 'Shasta Sulfur'



Ginkgo biloba 'Fastigiata'



Grevillea victoriae



Grevillea j. 'Gold Clusters'



Hesperaloe parvifolia 'Yellow'



Humulus lupulus



Inula magnifica



Luma apiculata



Lyonothamnus fl. ssp. Asplenifolius



Mahonia 'Marvel'



Melianthus major 'Purple Haze'



Nandina domestica 'Jade Sea'



Olea e. 'Little Ollie'



Panicum virgatum 'Dallas Blues'



Phormium 'Sea Jade'



Podocarpus gracillior



Puya mirabilis



Rosa chinensis 'Mutabilis'



Rosmarinus o. 'Roman Beauty'



Salvia 'Waverly'



Sedum spathulifolium



Rudbeckia californica



Sarcococca sp.



Sideritis cypria



Ulmus parvifolia 'Allee'



Woodwardia fimbriata



X chitalpa tashkentensis



Zelkova serrata

PLANTING CHARACTER IMAGES



ESTIMATED MAXIMUM APPLIED WATER ALLOWANCE

Instructions

Cells with pale blue background are for entering data
Results show in cells with tan background
Messages and warnings are displayed in cells with yellow background

1) Select city by clicking on blue cell and choosing a city from the drop down menu ETo appears in the tan cell below the name of the city

2) Enter square footage of overhead spray irrigated landscape area

3) Enter square footage of drip irrigated landscape area

4) Enter square footage of Special Landscape Area (SLA)

5) MAWA results appear in the tan cells

6) If you are considering effective precipitation (Eppt), enter total annual precipitation.

7) Eppt

8) For comparison, MAWA without effective precipitation is displayed below MAWA without Eppt (Gallons)

Maximum Applied Water Allowance Calculations for New and Rehabilitated Non-Residential Landscapes

Enter value in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Click on the blue cell on right to Pick City Name	Santa Rosa	Name of City
ETo of City from Appendix A	42.00	ETo (inches/year)
	776	Overhead Landscape Area (ft ²)
	20236	Drip Landscape Area (ft ²)
	0	SLA (ft ²)
Total Landscape Area	21,012	
Results: (ETo) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) X SLA]		Gallons
		Cubic Feet
		HCF
		Acre-feet
		Millions of Gallons
MAWA calculation incorporating Effective Precipitation (Optional) Precipitation (Optional)		
ETo of City from Appendix A	42	ETo (inches/year)
Total Landscape Area	21,012	LA (ft ²)
Special Landscape Area	0	SLA (ft ²)
	38	Total annual precipitation (inches/year)
Enter Effective Precipitation	9.50	Eppt (in/yr)(25% of total annual precipitation)
Results: MAWA = [(ETo - Eppt) x (0.62)] x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]	190,526	Gallons
	25,469.75	Cubic Feet
	254.70	HCF
	0.58	Acre-feet
	0.19	Millions of Gallons

Estimated Total Water Use

Equation: ETWU = ETo x 0.62 x [(PF x HA)/IE] + SLA; Considering precipitation ETWA = (ETo-Eppt) x 0.62 x [(PF x HA)/IE] + SLA

Enter values in Pale Blue Cells

Tan Cells Show Results

Messages and Warnings

Irrigation Efficiency Default Value for overhead 0.75 and drip 0.81.

Plant Water Use Type	Plant Factor
Very Low	0 - 0.1
Low	0.2 - 0.3
Medium	0.4 - 0.6
High	0.7 - 1.0
SLA	1.0

Hydrozone	Select System From the Dropdown List click on cell below	Plant Water Use Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft ²) Without SLA	Enter Irrigation Efficiency (IE)	(PF x HA (ft ²))/IE
Spray Area	Overhead Spray	Low	0.20	776	0.75	207
Low Drip	Drip	Low	0.20	12,000	0.81	2,963
Med Drip	Drip	Medium	0.50	7,036	0.81	4,343
Low Bub	Drip	Low	0.30	400	0.81	148
Med Bub	Drip	Medium	0.50	700	0.81	432
High Bub	Drip	High	0.70	100	0.81	86
						8,180
	SLA			0		0
	Sum			21,012		

Results

MAWA = 190,526

ETWU = 164,822 Gallons
22,034 Cubic Feet
220.34 HCF
0.51 Acre-feet
0.18 Millions of Gallons

ETWU complies with MAWA

IRRIGATION STATEMENT

All irrigation will be designed to meet 2015 Sonoma County Water Efficient Landscape Ordinance and will contain the following components:

- The irrigation system will be designed and installed to meet irrigation efficiency described in the maximum applied water allowance.
- Weather based, self-adjusting irrigation controller with a rain sensor.
- Emitters to include subsurface drip irrigation and tree bubblers.
- Spray irrigation will be designed with water-efficient spray heads and to minimize run-off.
- Trees to be placed on separate valves.
- Container planting to be placed on separate valves.
- Isolation valves to be installed at point of connection and before each valve or manifold.
- Pressure regulation to be installed.
- Separate valves to be installed to irrigate zones of low, medium, and high water use plantings.
- Check valves will be installed to prevent low point drainage.

SITE LIGHTING

TYPICAL PARKING LOT POLES - 12FT
D-SERIES SIZE 1 LED AREA LUMINAIRE
LITHONIA LIGHTING

TYPICAL POLES AT COURTYARD AND MEWS - 10FT
RADEAN POST TOP LED AREA LUMINAIRE
LITHONIA LIGHTING

RIGHT OF WAY - SIDEWALK IMPROVEMENTS

BENCH SEATING
BLACK METAL BENCH WITH CENTRAL ARMREST
"COURTYARD SERIES" OUTDOOR BENCH, WABASH VALLEY OR EQUAL

24" x 24" CONCRETE SCORING PATTERN

PYATOK
1611 TELEGRAPH AVE. SUITE 200
OAKLAND, CA 94612
510.465.7010 p | 510.465.8575 f
www.pyatok.com

Catholic Charities

CLIENT ADDRESS

QUADRIGA
landscape architecture and planning, inc.
sacramento | santa rosa
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CARITAS CENTER
CARITAS CENTER, SANTA ROSA, CA

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