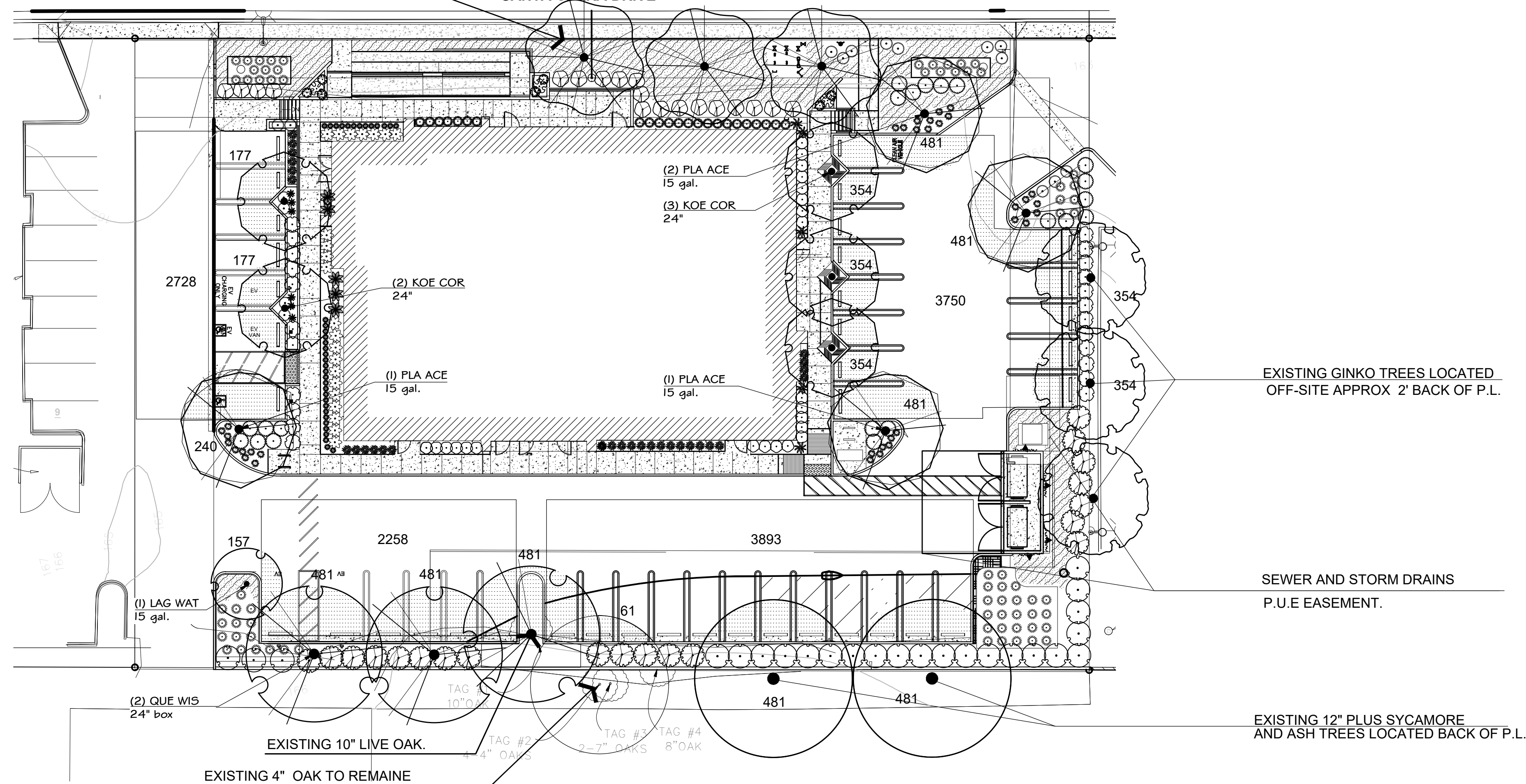


STREET/ SHADE TREES PLACED  
30' O.C.

SANTA CLARA DRIVE



### PROPOSED PLANT LIST

TREES	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
	FRA OXY	Fraxinus oxycarpa 'Raywood'™	Raywood Ash	EXISTING	Low - Medium
	GIN BIL	Ginkgo biloba	Maidenhair Tree	EXISTING	Low - Medium
	KOE COR	Koeleretaria paniculata 'Coral Sun'	Coral Sun Golden Rain Tree	24"	Very low - Medium
	LAS PAT	Lagerstroemia indica 'Watermelon Red'	Watermelon Red Crape Myrtle	15 gal.	Low - Medium
	LIG FES	Liquidambar styraciflua 'Festival'	Festival Sweet gum	24"	Medium - High
	PLA ACE	Platanus x acerifolia	London Plane Tree	15 gal.	Medium
	QUE WIS	Quercus wislizenii	Interior Live Oak	24" box	Low
	QUE WIS	Quercus wislizenii	Interior Live Oak	EXISTING	Low
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
	ARB COM	Arbutus unedo 'Compacta'	Compact Strawberry Tree	5 gal.	Low
	CIS PUR	Cistus x purpureus	Orchid Rockrose	---	Low
	CYC REV	Cycas revoluta	Sago Palm	15 gal.	Medium
	FAT VAR	Fatsia japonica 'Variegata'™	Camouflage Variegated Fatsia	5 gal.	Medium
	LAN HYB	Lantana x 'New Gold'	New Gold Lantana	1 gal.	Low
	LIR BIG	Liriope muscari 'Big Blue'	Big Blue Lilyturf	1 gal.	Medium
	LOM IRA	Lomandra longifolia 'Breeze'™	Breeze Mat Rush	5 gal.	Low
	NAN POW	Nandina domestica 'Firepower'	Firepower Heavenly Bamboo	---	Low -
	NER SAL	Nerium oleander 'Petite Salmon'	Petite Salmon Oleander	5 gal.	Very low -
	PHO AMR	Phormium x 'Amazing Red'	Amazing Red New Zealand Flax	5 gal.	low-Medium
	RAP YED	Rhaphelepis umbellata	Yedda Hawthorn	5 gal.	Low
	RHO KU2	Rhododendron kurume	Kurume Azalea	5 gal.	Medium
	TUL VIO	Tulbaghia violacea	Society Garlic	1 gal.	Low
	WES WYN	Westringia fruticosa 'Wynabbie Gem'	Wynabbie Gem Coast Rosemary	5 gal.	Low
VINES/ESPALIER	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
	SEL CAR	Sesamum sesamifolium	Jessamine Espalier	5 gal.	low-Medium
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
	GOP VA2	Coprosma Kirkii 'Variegata'	Creeping Mirror Plant	1 gal.	Low
	GAZ MIT	Gazania x 'Mitsuna Yellow'	Yellow Gazania	Flat	Low

**WELO STATEMENT:**  
'I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN'  
*Steven L. Crouch* 9-22-21

### DC EXHIBIT H

1623 SANTA CLARA DRIVE  
ROSEVILLE, CA 95661

#### SHADE CALCULATIONS \*

TREE	100% SHADE VALUE	75% SHADE VALUE	50% SHADE VALUE	25% SHADE VALUE
Stemodia spectabilis	0.00 0.00 + 0.0	0.00 0.00 + 0.0	3.00 3.00 + 1.00	2.00 1.75 + 0.80
Platanus acerifolia	0.00 0.00 + 0.0	0.00 0.72 + 0.0	3.00 4.81 + 1.63	1.00 2.40 + 2.00
Liquidambar styraciflua	0.00 0.00 + 0.0	0.00 0.72 + 0.0	1.00 4.81 + 1.63	0.00 2.40 + 0.0
Quercus wislizenii	0.00 0.00 + 0.0	0.00 0.72 + 0.0	3.00 4.81 + 1.63	0.00 2.40 + 0.0
Quercus agrifolia	0.00 0.00 + 0.0	0.00 0.72 + 0.0	2.00 2.40 + 2.00	0.00 1.75 + 0.0
Lagerstroemia indica 'Watermelon Red'	0.00 0.14 + 0.0	0.00 0.28 + 0.0	0.00 1.57 + 0.0	1.00 0.79 + 0.0
Quercus agrifolia and Ash tree	0.00 0.00 + 0.0	0.00 0.72 + 0.0	2.00 4.81 + 1.63	0.00 2.40 + 0.0
Ground Covers	0.00 0.00 + 0.0	0.00 0.72 + 0.0	2.00 4.81 + 1.63	1.00 1.75 + 0.0
<b>CALCULATED TOTAL</b>	<b>= 0.0</b>	<b>= 0.0</b>	<b>= 1.63</b>	<b>= 7.34</b>
<b>REQUIRED TOTAL</b>	<b>1000</b>	<b>900</b>	<b>800</b>	<b>700</b>
<b>AREA OF PARKING</b>	<b>1000</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>AREA REQUIRED TO BE SHADED 50%</b>	<b>1000</b>	<b>5</b>	<b>5</b>	<b>5</b>
<b>PERCENT PARKING AREA SHADED = 50.25%</b>				

#### MAWA USE CALC'S

SANTA CLARA DRIVE Landscape Water Use Calculations  
Project Type Commercial  
ROSEVILLE- CA  
0.45 ETo allowance

Applicant to use drop down menus in cells that indicate a selection to describe each hydrozone. Where "INPUT" is shown, applicant to enter project specific information. Please note that embedded formulas will reflect as "false" or as an error until selections are completed.

1 Maximum Annual Water Allowance (MAWA)

INPUT the total square footage of landscape = 6,800 S.F.  
INPUT the Hist. ETo for the area = 52.30  
MAWA = 13,441 cu ft / yr

2 Estimated Annual Water Use (EAWU)

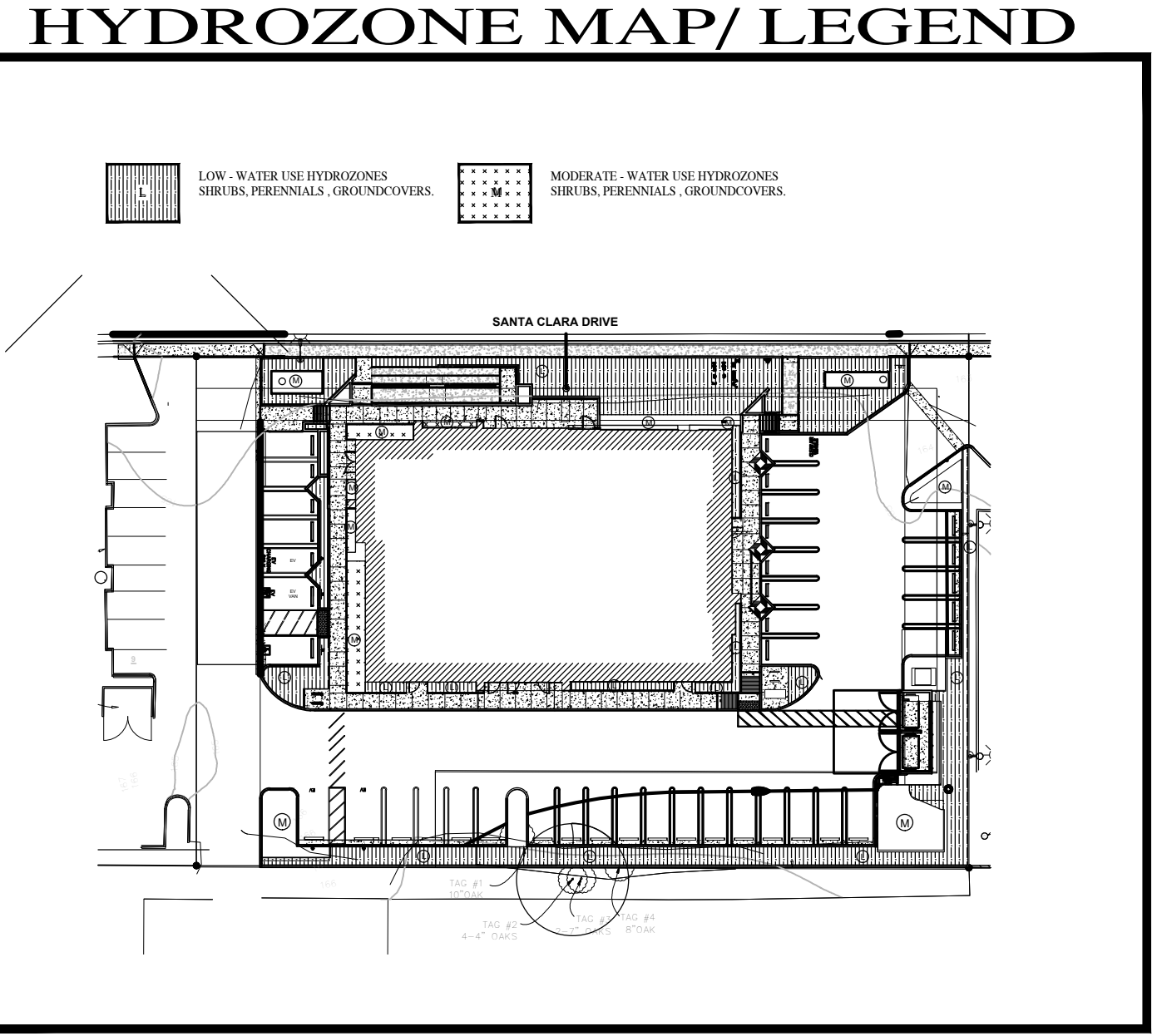
Hydrozone # 1  
INPUT Square Foot Area of Hydrozone = 6,055  
Hydrozone Irrigation Efficiency = 0.85  
EAWU = 6,178 cu ft / yr

Hydrozone # 2  
INPUT square footage of Hydrozone = 535  
Hydrozone Irrigation Efficiency = 0.90  
EAWU = 2,011 cu ft / yr

SubTotal EAWU = 8,187 cu ft / yr  
Input Irrigation System Operation Factor = 0.85  
Total EAWU = 9,632  
MAWA - EAWU = 3,809 cu ft / yr  
(this number must be positive)

PERCENTAGE OF WATER SAVED RELATIVE TO MAX. ALLOWED = 28%

\* Trees are not required to be listed as a separate hydrozone if understory is planted with plants of an equal or higher plant factor, and foot area is already included in calculations.



#### IRRIGATION DESCRIPTIVE

IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MEET ALL STATE AND LOCAL REQUIREMENTS. IRRIGATION FOR ALL SHRUBS AND GROUND COVERS WILL BE POINT SOURCE DRIP EMITTERS TO MAXIMIZE WATER EFFICIENCY. IN ADDITION PLANTS WILL BE GROUPED ON SEPERATE VALVES OR ZONES BASED ON THEIR RATED WATER USE DATA. EXAMPLE LOW, MED, HIGH USES WILL NOT BE ALLOWED TO BE MIXED ON SAME WATERING ZONE. PLANTS ARE ALSO TO BE ZONED BASED ON EXPOSURE, NORTH AND EASTERN PLANTS ON ONE ZONE AND SOUTH AND WESTERN EXPOSURE ON ANOTHER. TREES ARE TO BE WATERED ON BUBBLERS (MIN. 2 PER 15GAL TREE) WITH BUBBLERS IN ROOT WATERING TUBE MIN. 24" DEEP. ADDITIONAL EQUIPMENT SHALL BE A SMART CONTROLLER WITH ABILITY TO ADJUST WITH CURRENT ETO DATA, ABILITY TO COMMUNICATE WITH INSTALLED MASTER VALVE, FLOW SENSOR, RAIN CLICK OR WEATHER SENSOR.

#### OFFSITE SHADE TREES.



SYCAMORE @  
WEST - P.L.

GINKGO'S @  
SOUTH - P.L.



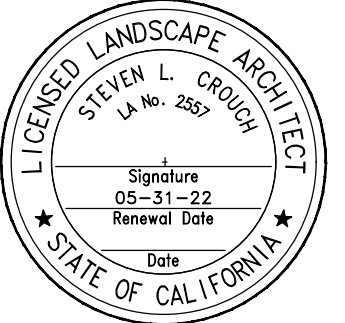
SYCAMORE @  
WEST - P.L.



SCALE: 1" = 20'-0"

DRAWING NO.

DATE: 2-24-22



# LANDSCAPE / PRELIMINARY PLANTING PLAN

1-L-1